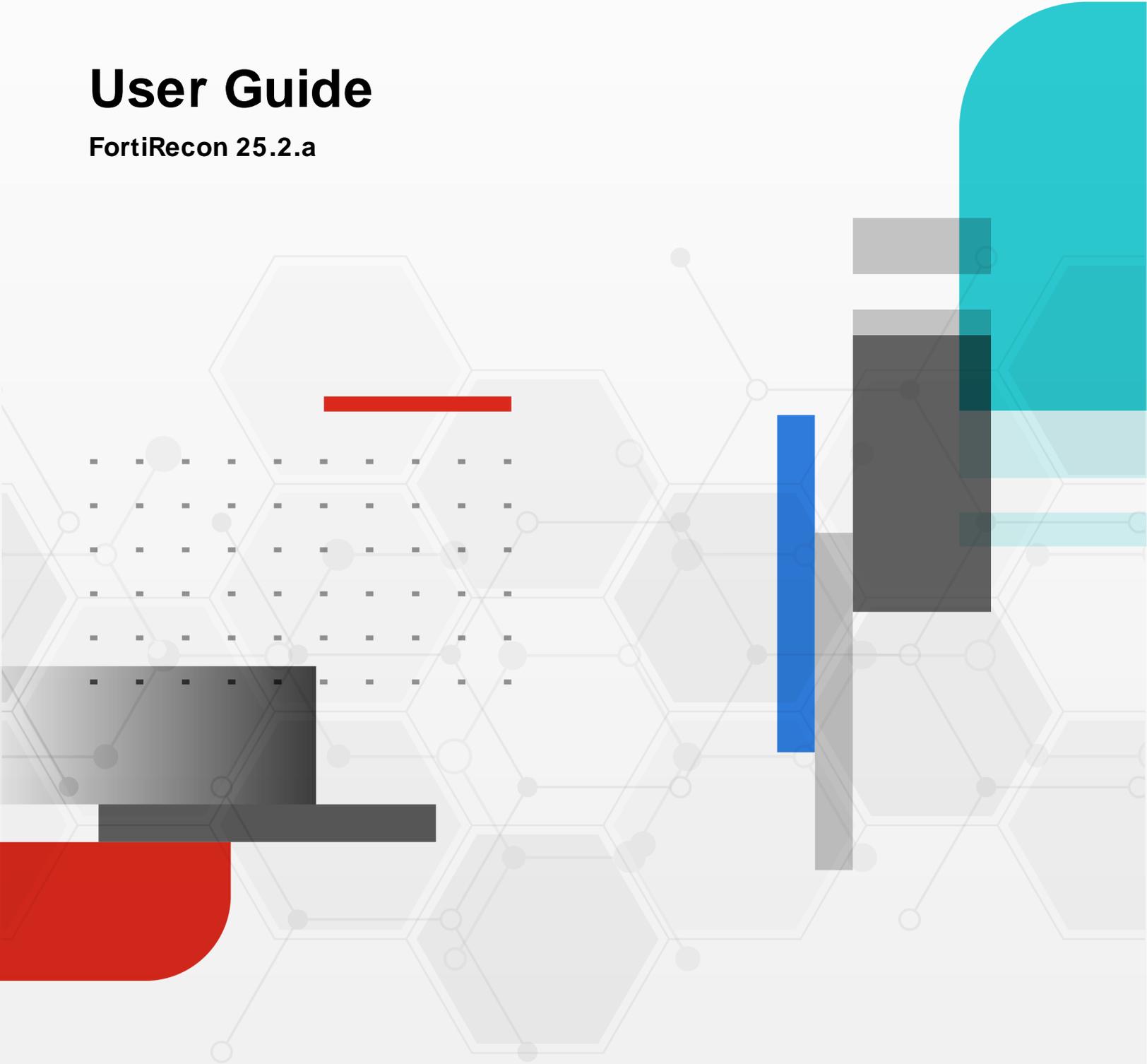


User Guide

FortiRecon 25.2.a



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FEEDBACK

Email: techdoc@fortinet.com

June 26, 2025

FortiRecon 25.2.a User Guide

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Change Log

Date	Change Description
2025-06-26	Initial release.
2025-06-27	Updated Monitoring Service Status topic.

Introduction

FortiRecon is a Digital Risk Protection (DRP) service that operates alongside existing security solutions to provide you with both external and internal visibility into your infrastructure. This holistic view allows you to see your environment as an adversary would, enabling swift detection and mitigation of potential threats. The service maps your organization's digital footprint, both external and internal, while constantly monitoring it for abnormal activity. The service gives organizations the intelligence to mitigate credible security threats in a controlled manner as part of ongoing security efforts.

FortiRecon scans the organization's attack surface and identifies risks to assets across both external and internal domains while FortiGuard Threat Intelligence delivers early warning of risks to the organization through targeted, curated intelligence to provide an early warning of any malicious activity targeted to the organization.

The FortiRecon portal includes the following modules:

Overview	The <i>Overview</i> module provides a centralized view of your organization's digital risk posture across <i>Attack Surface Management (ASM)</i> , <i>Brand Protection (BP)</i> , and <i>Adversary Centric Intelligence (ACI)</i> modules. Discovered issues are mapped to relevant MITRE ATT&CK techniques and sub-techniques, providing a valuable framework for understanding attacker motivations and potential attack paths. See Overview .
Attack Surface Management	<p>The External Attack Surface Management (EASM) module provides an adversary's view of the organization digital attack surface and prioritizes risks and exposures, enabling administrators to mitigate threats in a controlled manner before the threats become a problem. See EASM on page 55.</p> <p>The Internal Attack Surface Management (IASM) module provides visibility into internal network, identifying vulnerabilities within the organization's perimeter. It helps administrators discover internal assets, assess associated risks, and take mitigation steps. See IASM on page 83.</p>
Brand Protection	The Brand Protection (BP) module continually monitors the organization's public-facing visibility for unauthorized changes, including web-based phishing attacks, typo-squatting, rogue applications, credential leaks, and brand impersonation in social media, which may impact brand value, integrity, and trust. See Brand Protection on page 113 .
Adversary Centric Intelligence	The Adversary Centric Intelligence (ACI) module leverages FortiGuard Threat Analysts to provide comprehensive coverage of dark web, open source, and technical threat intelligence, including threat actor insights. This information enables administrators to proactively assess risks, respond faster to incidents, better understand their attackers, and protect assets. See Adversary Centric Intelligence on page 151 .
Profile Settings	The Profile Settings module allows you to personalize your FortiRecon account and provide information on your organization. See Profile settings on page 202 .



FortiRecon APIs are available on the [Fortinet Developer Network \(FNDN\)](#). You must first register an account on FNDN to gain access.

Requirements

A FortiCloud account is required to access the FortiRecon portal. The FortiRecon Admin for your organization also needs to create an account within FortiRecon. If either of these accounts is not created, you will not be able to log in to the FortiRecon portal. See the FortiCloud [New Account Onboarding](#) document and [Getting started](#) for more information on registering your accounts.



If you need to create a support ticket, the FortiCloud account must be linked to your entitled license. There are two methods to link the FortiCloud account to your license:

- The account owner must create sub user accounts for all of the users in your organization. See [User permissions](#) in the FortiCloud Asset Management Administration Guide.
 - Contact FortiCare support to request that your account be linked to the license in your organization. See [Creating support tickets](#) in the FortiCloud Asset Management Administration Guide.
-

Acceptable FortiRecon use cases

When using FortiRecon, there are certain acceptable use case requirements that must be followed to properly leverage FortiRecon's capabilities. FortiRecon use case requirements include the following:

- The FortiRecon solution must only be used for the licensed entity and its brands. See [Requirements on page 10 and Licensing](#).
- Domains that are added for scanning and monitoring must be owned by the licensed entity.
- The licensed entity may not add the domains and apps of its customers, partners, or vendors to *Profile Settings > Seeds* or the *EASM* module for monitoring. However, up to 25 of these assets may be added for vendor monitoring in the *Adversary Centric Intelligence* module. See [Vendor Risk Assessment on page 189](#).
- Bank identification numbers (BINs) should only be added for the licensed entity and brand. See [Card Fraud on page 160](#).

Customer monitoring

Organizations, such as MSSPs, that want to set up monitoring for their customers can reach out to our account and sales team for suitable options.

Default alerts

FortiRecon automatically sends out default alerts if certain triggers are identified. Default alerts for each module include:

Module	Alert
External Attack Surface Management (EASM)	<ul style="list-style-type: none"> • New scan refresh • Leaked credentials present as part of a third party breach • Continuous monitoring refresh alert • Leaked credentials for new domain
Internal Attack Surface Management (IASM)	<ul style="list-style-type: none"> • New scan refresh
Brand Protection (BP)	<ul style="list-style-type: none"> • Fraudulent domains identified, such as phishing and brand impersonation • New rogue mobile application identified • Social media impersonation identified • Exposed sensitive information on code repository • Files found in open cloud storage bucket • New threats to executives in executive monitoring
Adversary Centric Intelligence (ACI)	<ul style="list-style-type: none"> • Any published flash alert or report • Any high relevance report • Stealer infection identified • Credit or debit cards identified on card shops • Organization or vendor listed on a ransomware naming and shaming site • Intelligence collection lookup alert, if there is a match in the default system ICL query • Daily digest

Monitoring Service Status

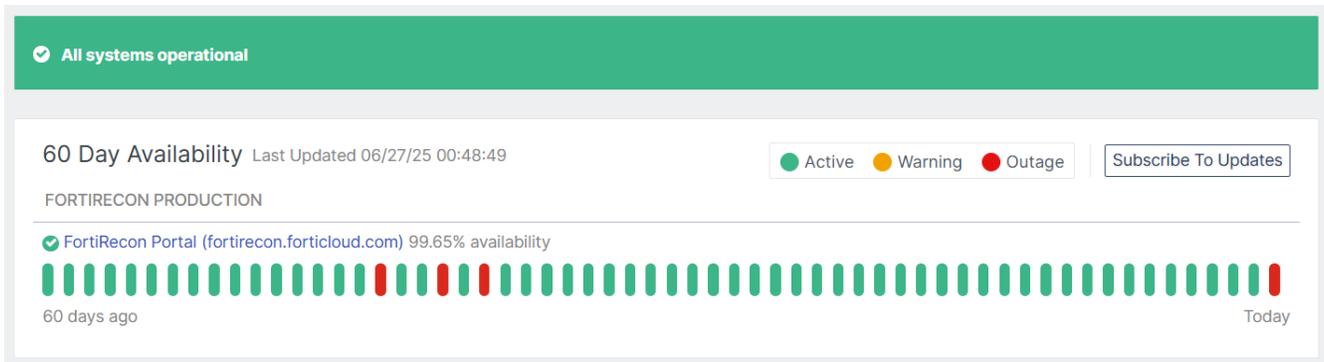
The FortiRecon Status page provides an overview of the current and historical availability of the FortiRecon service. You can receive and track notifications for incidents and downtime affecting the FortiRecon GUI and Rest APIs.

To access the FortiRecon Status page, navigate to <https://status.fortimonitor.forticloud.com/fortirecon>.

The status page displays the real-time and historical incidents affecting the FortiRecon service. The real-time events affecting the infrastructure and usage of the service are displayed on the top of the page.

The FortiRecon service uptime is displayed graphically for a period of 60 days. The downtime/outage events experienced by the service are indicated in colored bars; hover over the *Warning* or *Outage* bars to view the details. Click *Subscribe To Updates* and enter your email address to receive notifications.

Click *FortiRecon Portal* link to view detailed status statistics.



The *Scheduled Maintenance* section displays upcoming maintenance information.

The historical incidents are listed in *Maintenance History For Last 30 Days* section.

Licensing

You can license FortiRecon in two ways: by purchasing a standard FortiRecon license or by subscribing through the FortiFlex program.

- [Standard FortiRecon Licensing](#)
- [FortiRecon FortiFlex Licensing](#)
- [Upgrading Trial License](#)
- [Renewing Expired FortiRecon Licenses](#)

Standard FortiRecon Licensing

You must purchase and register a FortiRecon license before you can subscribe to FortiRecon. After you purchase the license, register the license using FortiCloud Account Services. For more information about registering products on FortiCloud, see the [FortiCloud Account Services > Registering products](#) documentation. After registration you can continue with subscribing to FortiRecon, see [Getting started](#).

You can choose to purchase a license for the following FortiRecon modules:

- External Attack Surface Management (EASM)
- Internal Attack Surface Management (IASM)
- Brand Protection (BP)
- Adversary Centric Intelligence (ACI)

In addition to the desired modules, the license also indicates the maximum number of assets to be monitored by FortiRecon. Following are the default capacities.

- *Takedowns*: 2
- *Executive Profiles for monitoring*: 10
- *Vendors for monitoring*: 25

Note: These are the default entitlements. Additional licenses are available for purchase, if needed.

For details about the different modules and solution bundles, see the FortiRecon data sheet.



An EASM license is required to purchase an IASM license.

FortiRecon FortiFlex Licensing

You can subscribe to FortiRecon by using FortiFlex points. FortiFlex is a consumption-based licensing model that allows you to use FortiPoints to pay for Fortinet products and services, including FortiRecon.

You can choose to purchase a license for the following FortiRecon modules:

- External Attack Surface Management (EASM)
- Internal Attack Surface Management (IASM)
- Brand Protection (BP)
- Adversary Centric Intelligence (ACI)

In addition to the desired modules, the license also indicates the maximum number of assets to be monitored by FortiRecon. Following are the default capacities.

- *Takedowns*: 2
- *Executive Profiles for monitoring*: 10
- *Vendors for monitoring*: 25

Note: These are the default entitlements. Additional licenses are available for purchase, if needed. For details about the different modules and solution bundles, see the FortiRecon data sheet.

- [Prerequisites](#)
- [Transferring FortiPoints to FortiFlex Points](#)
- [Creating a FortiRecon Configuration in FortiFlex](#)
- [Creating a FortiRecon Entitlement in FortiFlex](#)

Prerequisites

Before using FortiFlex for FortiRecon, ensure you meet these requirements:

- Enroll in the *FortiFlex Enterprise* program to enable FortiFlex in *FortiCloud Marketplace*. FortiFlex currently supports only the prepay option.
- Purchase sufficient *FortiPoints* to cover the resources you plan to allocate for your FortiRecon deployments.



- To purchase *FortiFlex Enterprise* or *FortiPoints*, contact [Fortinet Support](#).
 - Once you have purchased your licenses, register them in your FortiCloud account. See [FortiCloud Services Asset Management Guide > Registering Assets](#).
 - You can use the conversion rate and FortiFlex points calculator to estimate the total number of points that will be consumed before you purchase the FortiPoints. See [Transferring FortiPoints to FortiFlex Points](#).
-

Transferring FortiPoints to FortiFlex Points

FortiFlex FortiPoints can be transferred to FortiFlex points to be used in the FortiFlex portal. The conversion rate of FortiPoints to FortiFlex points, points rollover, and expiration information depend on the conversion option. Details on each option can be viewed in *FortiCloud > Marketplace > Spending > FortiFlex*.



You can use the FortiFlex points calculator to estimate the total number of points that will be consumed before you transfer the FortiPoints. See [Points calculator](#) in *FortiFlex Administration Guide*.

Perform the following steps to transfer FortiPoints into FortiFlex points.

1. Log in to <https://support.fortinet.com/> using your *FortiCloud Account*.
2. Go to *Marketplace > Spending*.
3. Select *FortiFlex*.
4. Add a description of the transfer in the *Memo* field.
5. Enter the number of FortiFlex points you want. The *FortiPoints* needed field will update to show how many points must be transferred to receive the desired amount.
6. Click *Request Transfer*. The *Order Summary* is displayed.

ASSET MANAGEMENT

Dashboard

Products

Marketplace

General

Spending

History

Account Services

Marketplace / Spending / FortiFlex

Transfer my FortiPoints to FortiFlex Points

FORTIFLEX POINTS BALANCE 7,964.11

FORTIPOINTS BALANCE 10,400.00

MEMO*

Client1 FortiRecon Provisioning

The **Greater** Your Purchase,
The **Lower** Your Expense.

! Please note that points transfers are final and transferred points **CANNOT** be returned.

FortiFlex Needed	Conversion Rate FortiFlex Point/FortiPoint	Rollover unconsumed FortiFlex points rollover at anniversary date
~ 50K	1.2	50%
50K ~ 1M	1.2	100%
1M ~ 10M	1	100%
10M ~	0.8	100%

FortiFlex Points wanted
All values entered/calculated will be rounded up to the nearest integer.

6,000

FortiPoints needed
7200.00

Cancel Request Transfer



- If you do not have enough FortiPoints to complete the transfer, a warning will display the number of outstanding points. Select *Register More Points* to register FortiPoints or select *Go Back To Edit* to reduce the number of FortiFlex points needed.
- To purchase *FortiPoints*, contact [Fortinet Support](#). Once you have purchased your licenses, register them in your FortiCloud account. See [FortiCloud Services Asset Management Guide > Registering Assets](#).

7. Click *Transfer Points*. The points will be transferred and the transfer record will display on the *History* page.

Creating a FortiRecon Configuration in FortiFlex

Configurations allow you to define and customize a FortiRecon service package, including the number of assets, internal networks, executives, and vendors to be monitored.



You can use the FortiFlex points calculator to estimate the total number of points that will be consumed before you create the configuration. See [Points calculator](#) in *FortiFlex Administration Guide*.

Perform the following steps to create a FortiRecon configuration in FortiFlex.

1. Log in to <https://support.fortinet.com/> using your FortiCloud account.
 - a. If logging in for the first time, email verification must be completed.
2. Go to *Services > FortiFlex*.
3. In FortiFlex, go to *Configurations*, and click *New Configuration*.
4. In the *Configuration Details* page, set the following configuration details and click *Next*.
 - *Name* - Enter a configuration name.
 - *Form Factor* - Select *Cloud Services*.
 - *Product Type* - Select *FortiRecon*.

5. In the *Configuration Setup* page, set configuration values and click *Next*.

Service Package	Select any one from the following. <i>External Attack Surface Monitoring</i> <i>External Attack Surface Monitoring & Brand Protect</i> <i>External Attack Surface Monitoring & Brand Protect & Adversary Centric Intelligence</i>
Number of Monitored Assets	Enter a value between 200 to 1000000.
Internal Attack Surface Monitoring (number of networks)	Enter a value between 0 to 100.
Executive Monitoring (number of executives)	Enter a value between 0 to 1000.

This field is only enabled when *External Attack Surface Monitoring & Brand Protect* or *External Attack Surface Monitoring & Brand Protect & Adversary Centric Intelligence* is selected as a Service Package. Otherwise, the value is set to 0.

Vendor Monitoring (number of vendors)

Enter a value between 0 to 1000.

This field is only enabled when *External Attack Surface Monitoring & Brand Protect & Adversary Centric Intelligence* is selected as Service Package. Otherwise, the value is set to 0.

Manage Configuration

2. Configuration Setup

Set Configuration Values

Service Package *

External Attack Surface Monitoring & Brand Protect & Adversary Centric Intelligence ▼

Number of Monitored Assets *

200

Internal Attack Surface Monitoring (number of networks)

10

Executive Monitoring (number of executives)

10

Vendor Monitoring (number of vendors)

5



If the actual number of assets in the FortiRecon exceeds the licensed limit, access to modules may be restricted until the asset count is reduced to within the licensed limits.

6. Review the configuration details, and click *Submit*.
7. Click *List* to view the configuration in the *Configurations* tab.



For more information, see [Creating a Cloud service configuration](#) in *FortiFlex Administration Guide*.

Creating a FortiRecon Entitlement in FortiFlex

Entitlements use the configuration to create the service. FortiFlex points begin to be consumed once an entitlement is activated for the first time.

Perform the following steps to create a FortiRecon entitlement.

1. If not logged in, log in to <https://support.fortinet.com/> using your FortiCloud account.
2. Go to *Services > FortiFlex*.
3. Go to *Flex Entitlements*, and click *New Flex Entitlement*. The *Add Flex Entitlement* page opens.
4. Configure the Cloud entitlement and click *Next*.
 - *Product Type* - FortiRecon
 - *Configuration* - Select the previously created FortiRecon configuration from the list.
 - *Number of Flex Entitlements* - Enter the number of entitlements.
 - *Description* - Enter a description.
 - *Termination Mode* - Select *Follow Program* to terminate the machine when the program expires. Select *User Defined*, and select a date in the calendar to specify the termination date.



FortiRecon license generated through FortiFlex must have a minimum duration of 3 months.

- *Asset Folder* - Assign the service to a folder in *My Assets*.

5. Review the *Flex Entitlement Details* and *Program Information*, and click *Submit*.

After successful creation, copy the serial number for your new FortiRecon entitlement. Continue with subscribing to FortiRecon, see [Getting started](#).



For more information on, see [Creating Cloud service entitlements in FortiFlex Administration Guide](#).

Upgrading Trial License

During your FortiRecon trial period, you have two options for upgrading to a full subscription, either by purchasing a standard license or by subscribing via FortiFlex.

Upgrading During the Trial Period

If your trial period is still active, you can upgrade your license by adding a purchased standard license or a FortiFlex entitlement.

To upgrade your license:

1. Go to **Profile Settings > Profile**.
2. Scroll to **Subscription Details**.
3. Click the edit icon next to **Contract Number**.
4. Enter the following information:
 - *License Serial*: Enter your FortiRecon license serial number (for standard licenses) or the serial number obtained from your FortiFlex entitlement.
 - *Email*: Enter the email address used to purchase the license or associated with your FortiCloud account for FortiFlex.
 - *Contract Number*: If you are upgrading with a standard FortiRecon license, enter the contract number. This field is not required for FortiFlex subscriptions.
5. Click **Save & Next**.
6. Enter your seed information. Based on the purchased license or FortiFlex configuration, you can add an additional domain or modify existing domain details. Select the **Add/Remove Assets** checkbox to add or remove assets as needed.

Upgrading After Trial Expiration

If your trial period has already expired, attempting to log in will display an expiration page. In this case, you can purchase a new standard license or create a FortiFlex entitlement and then perform these steps:

1. Log in to FortiRecon. The license expiration page is displayed. Provide the following details:
 - *License Serial*: Enter your FortiRecon license serial number (for standard licenses) or the serial number obtained from your FortiFlex entitlement.
 - *Contract Number*: If you are upgrading with a standard FortiRecon license, enter the contract number. This field is not required for FortiFlex subscriptions.
 - *Email*: Enter the email address used to register the contract or associated with your FortiCloud account for FortiFlex.
2. Click **Verify**.
3. FortiRecon sends a One Time Password (OTP) to your email. This OTP is valid for five minutes. Enter the OTP and click **Validate**. If needed, click the regenerate icon to receive a new OTP.
4. Once validated, enter the primary domain and click *Proceed*. A confirmation pop-up appears.
 - Click **Use existing account** to continue with your existing data.
 - Click **Create new account** to create a new account. If you select Create new account, the FortiRecon Provisioning form appears.

For more information on completing provisioning form, see [Getting started](#).



Creating a new account will delete all previous data.

Renewing Expired FortiRecon Licenses

If your current FortiRecon license has expired, purchase a new license or create a new FortiFlex entitlement, then perform the following steps to add it:

1. Log in to FortiRecon. The license expiration page is displayed. Enter the following information.
 - *License Serial*: Enter your new FortiRecon license serial number (for standard licenses) or the serial number obtained from your new FortiFlex entitlement.
 - *Contract Number*: If you are renewing with a standard FortiRecon license, enter the contract number. This field is not required for FortiFlex subscriptions.
 - *Email*: Enter the email address used to register the contract or associated with your FortiCloud account for FortiFlex.
2. Click *Verify*.
3. A One Time password (OTP) will be sent to your email and is valid for five minutes. Enter the OTP and click *Validate*. Click regenerate icon to generate a new OTP if needed.
4. Once validated, enter the primary domain and click *Proceed*.

Getting started

After you acquire a FortiRecon license or entitlement, you can subscribe and start the service. For more information on licensing, see [Licensing](#)

To subscribe to FortiRecon:

1. After registering your standard license (see [Standard FortiRecon Licensing](#)) or obtaining your FortiFlex serial number (see [FortiRecon FortiFlex Licensing](#)), go to FortiRecon at <https://fortirecon.forticloud.com>.
2. Click *Login*. The FortiCloud login page is displayed. Enter your FortiCloud credentials.
3. After you log in to FortiRecon for the first time, the *FortiRecon Provisioning Form* page is displayed.
4. *License Information*.
 - a. Enter the following information.
 - *License Serial*: Enter your FortiRecon license serial number (for standard licenses) or the serial number obtained from your FortiFlex entitlement.
 - *Contract Number*: If you are using a standard FortiRecon license, enter the contract number. This field is not required for FortiFlex subscriptions.
 - *Email*: Enter the email address used to register the contract or associated with your FortiCloud account for FortiFlex.
 - b. Click *Verify*.
 - c. A One Time password (OTP) will be sent to your email and is valid for five minutes. Enter the OTP and click *Validate*. Click regenerate icon to generate a new OTP if needed. Once verified, click *Next*.

FortiRecon Provisioning Form

License Information | Contact Information | Company Information | Asset Information | Brand Information

Welcome to FortiRecon. Please provide the license details to proceed further

License Serial* | Contract Number* | Email*

A One Time Password (OTP) has been sent to iamreconlicensecheck@qatest.com to validate ownership of the license. OTP will be valid for 5 Minutes

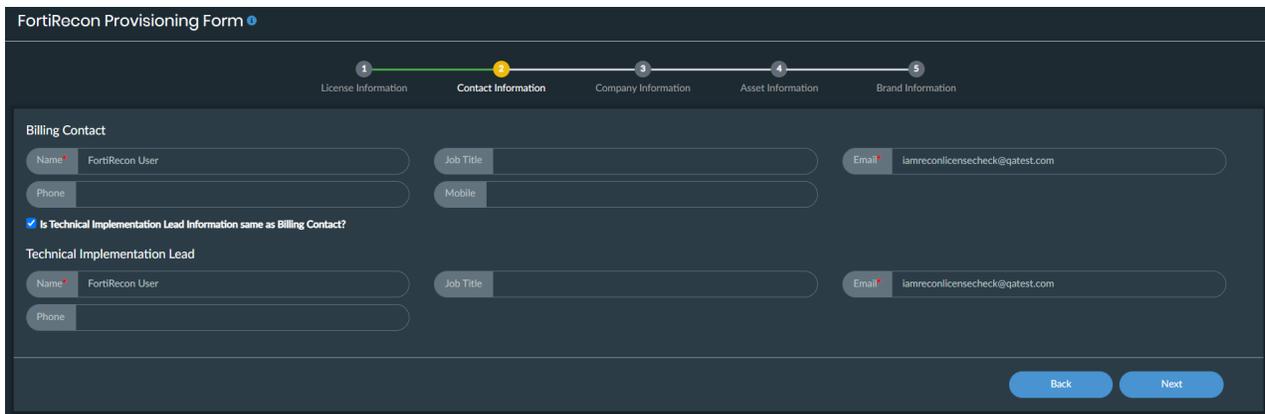
OTP* | Validate ✓

Next

5. *Contact Information*.
 - a. Enter the contact information of the billing contact in the *Billing Contact* fields.
 - b. Enter your contact information in the *Technical Implementation Lead* fields. Select *Is Technical Implementation Lead Information same as Billing Contact* checkbox if applicable.

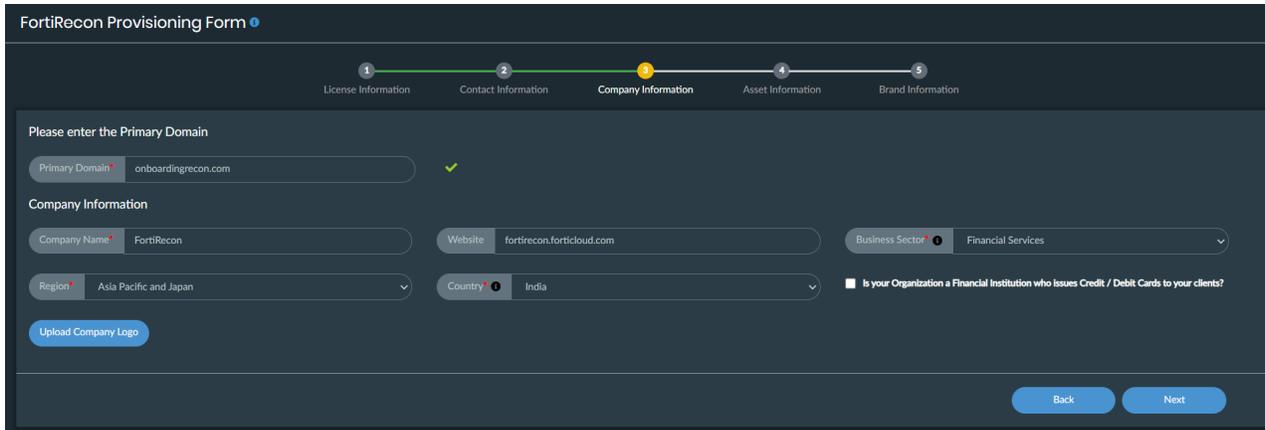


Fields marked with a red asterisks are required information. Other fields are considered optional although it is suggested that you complete all of the fields provided to receive the most accurate service.



6. *Company Information* .

- a. Enter the primary domain. If the domain already exists, a confirmation prompt appears.
 - *Use existing account:* Click to continue with existing data. The license will be added to the existing organization.
 - *Create new account:* Click to create a new account. **Note:** Creating a new account will delete all previous data.
If you create a new account, an authorization code valid for 24 hours is generated. Contact Fortinet support to obtain the authorization code and delete the existing information.
- b. Once primary domain validated, enter your organization's information in the *Company Information* fields. Click *Upload Company Logo* to browse and upload your organization's logo.
- c. If your organization is a Financial Institution issuing credit or debit cards, select the checkbox. This will enable the *Card Information* step.



- 7. *Asset Information*. Enter your organization's assets information including primary, secondary and sub domains, IP addresses, IP range, ASN, assets to be excluded from monitoring.

FortiRecon Provisioning Form

1 License Information 2 Contact Information 3 Company Information 4 Asset Information 5 Brand Information

IP Address and Domain Information

Primary Domain: onboardingrecon.com

192.168.1.1

Validated IP prefix

Validated secondary domains

Validated sub domains

Validated AS Numbers

Enter assets belonging to the organisation.

Example:
 1.1.1.1 (IP Address)
 1.1.1.0/24 (IP Prefix)
 asi.com (Secondary Domain)
 test.asi.com (Sub-domain)
 AS328739 (ASN)

The asset entries should be one entry per line.

Validate

Back Next

8. **Brand Information.** Enter your brand names, social media profile and mobile applications to be monitored. Click **Save**.

FortiRecon Provisioning Form

1 License Information 2 Contact Information 3 Company Information 4 Asset Information 5 Brand Information

Customer Brand Names (e.g. FortiClient, FortiGate)

Brand Names

Social Media Monitoring Add +

Facebook URL/Username

LinkedIn URL/Username

Instagram URL/Username

Twitter URL/Username

Rogue Mobile Apps Monitoring Add +

Name of Mobile Application	URLs of official listing (Google Store / Apple Store / Third Party Store)	Name (s) of App developer (optional)	Actions

Back Save

9. **Card Information.** Enter Card BIN numbers. This is only for financial institutions who issue credit or debit cards.

FortiRecon Provisioning Form

1 License Information 2 Contact Information 3 Company Information 4 Asset Information 5 Brand Information 6 Card Information

Card BIN Numbers (For Banking customers only who issue Credit/Debit Cards)

Enter multiple card bins on press of enter

Back Save

10. Click **Save**. Your information will be sent to the FortiRecon team for review and provisioning. You will be redirected to FortiRecon portal.
11. Wait for the FortiRecon team to analyze your assets and populate the FortiRecon portal for you.
12. When you receive an email from the FortiRecon team, you can access the FortiRecon portal and review the analysis.

Accessing FortiRecon portal

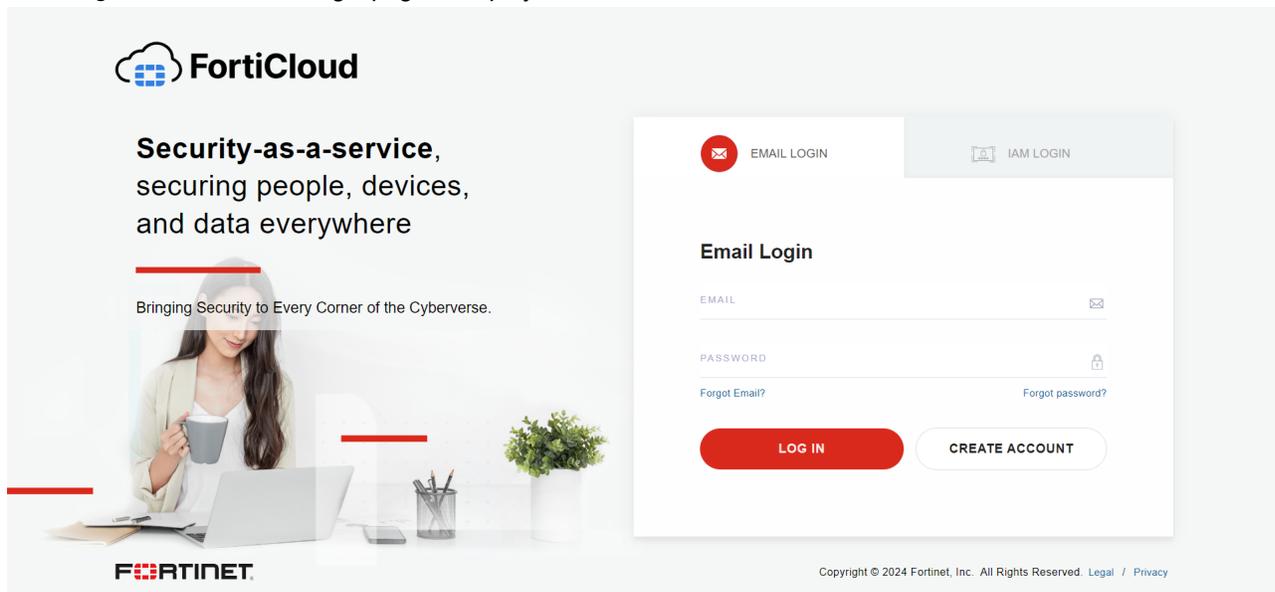
After you have subscribed to FortiRecon and received an email from the FortiRecon team, you are ready to access the FortiRecon portal.

To access FortiRecon:

1. Go to FortiRecon at <https://fortirecon.forticloud.com>.



2. Click *Login*. The FortiCloud login page is displayed.



3. Enter your FortiCloud credentials.
4. Click *Login*. The *Overview* page is displayed. See [Overview](#).



If you are part of multiple organizations, the *Organization* dashboard page is displayed. Select the organization you want and click *Login*. See [Organization Dashboard](#).

Organization

FortiRecon supports FortiCloud Organization, which lets you create and manage FortiRecon for multiple sub-organizations using a multitenant approach. You can create an Organizational Unit (OU) for each sub-organization and then provision FortiRecon for that OU. Each OU requires a dedicated FortiRecon license.

Perform the following steps to create an organization.

1. [Prerequisites](#)
2. [Create a new organization.](#)
3. [Create an Organization Unit\(OU\).](#)
4. [Create a Member Account.](#)
5. [Create a pAdmin account.](#)
6. [Create an OU Admin account.](#)
7. [Add FortiRecon license to an Organization Unit\(OU\).](#)
8. [Provision FortiRecon.](#)



To onboard and manage clients to FortiRecon, Managed Security Service Providers (MSSPs) can refer to [FortiRecon for Managed Security Services Providers \(MSSPs\)](#).

Prerequisites

Before creating the organization, ensure you have completed the following.

- A *FortiCloud* account with *Premium* subscription. See [Creating a FortiCloud account](#).
- Enable the *Organizations* portal within the FortiCloud account. See [Enabling Organization Portal](#).
- Purchase a FortiRecon standard license. Or, if you want to use the FortiFlex method for licensing:
 - Enroll in *FortiFlex Enterprise* program to enable FortiFlex in *FortiCloud Marketplace*.
 - Purchase sufficient *FortiPoints* to cover the resources allocated to client deployments.

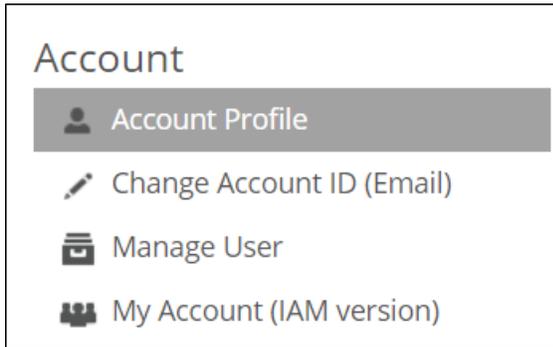


- To purchase a *FortiCloud Premium license*, *FortiFlex Enterprise*, or *FortiPoints*, contact [Fortinet Support](#).
 - Once you have purchased your licenses, register them in your FortiCloud account. See [FortiCloud Services Asset Management Guide > Registering Assets](#).
 - You can use the conversion rate and FortiFlex points calculator to estimate the total number of points that will be consumed before you purchase the FortiPoints. See [Transferring FortiPoints to FortiFlex points](#).
 - Each Organizational Unit (OU) requires a dedicated FortiRecon license, either a FortiFlex or standard license.
-

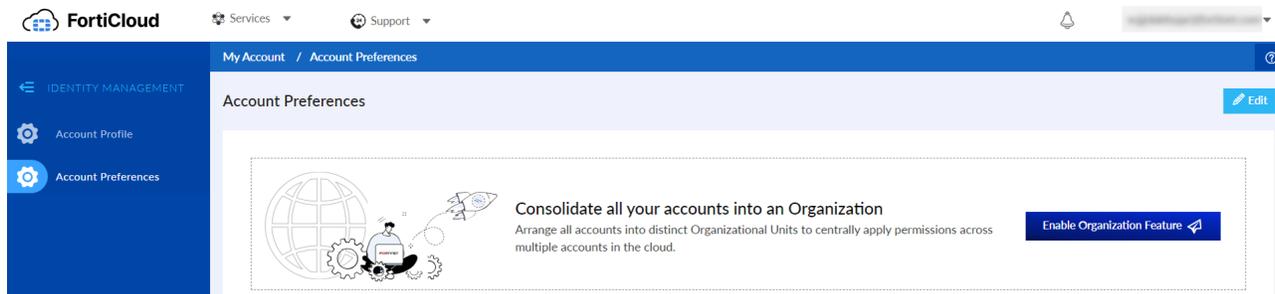
Enabling Organization Portal

To access Organization Portal in FortiCloud, perform the following steps:

1. Log in to <https://support.fortinet.com/> using your FortiCloud account.
2. From the profile menu, select *My Account*.
3. In the *My Account* page, click *My Account (IAM Version)*.



4. Navigate to *Account Preferences* tab.
5. Click *Enable Organization Feature*.

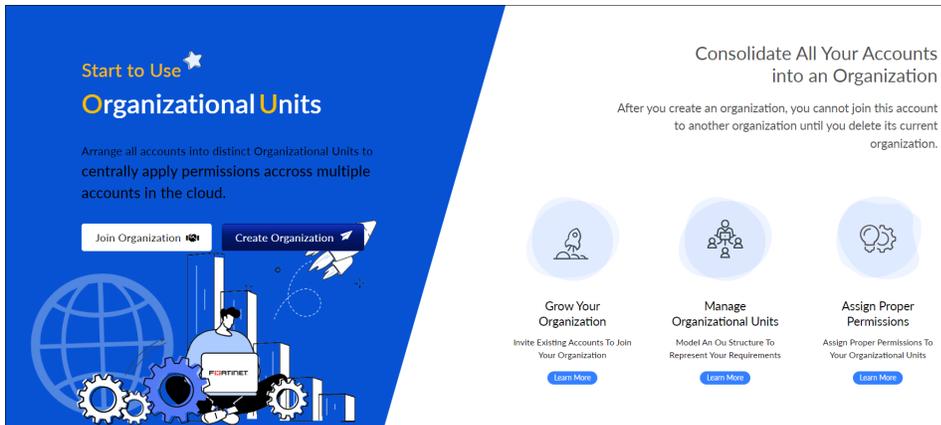


Creating an Organization

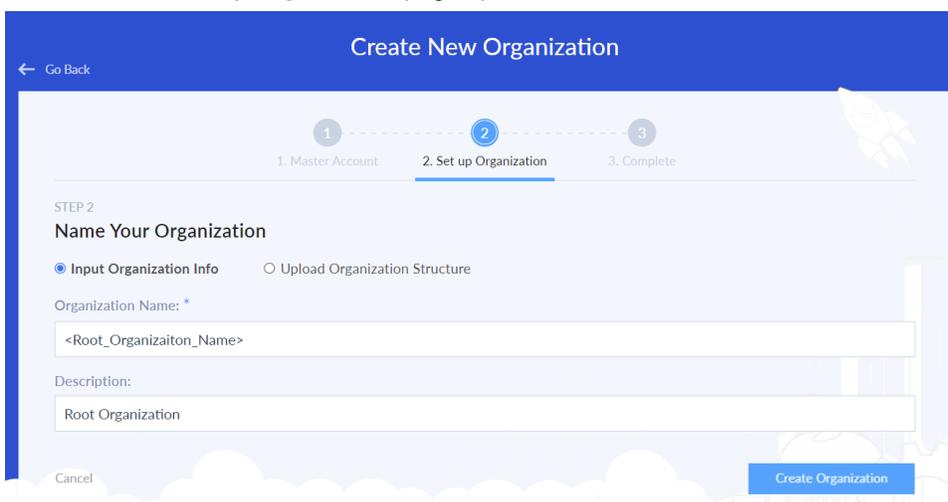
When you create an Organization your account becomes the *Root Account* for the organization.

Perform the following steps, to create an organization.

1. Ensure that you have enabled Organization Portal in your FortiCloud account. See [Enabling Organization Portal](#).
2. In the [Organization Portal](#), click *Create Organization*. The *Master Account* page opens.



3. Click *Next*. The *Set up Organization* page opens.



4. Provide the required information:

Input Organization Info	Select this option to create your organization with the GUI.
Upload Organization Structure	Select this option to create the organization and Organizational Units with an Excel sheet. See To create an organization with the Bulk Import template .
Organization Name	Enter a name for the organization.
Description	Enter a brief description of the organization.

5. Click *Create Organization*. The *Complete* page opens.

6. Click *Close & Go To General*. The *General* page opens.



For more information on Organizations, see [FortiCloud Services > Organization Portal](#).

To create an organization with the Bulk Import template:

1. On the Set up Organization page, click *Upload Organization Structure*.
2. Download the Bulk Import template.

3. Use the template instructions to enter the OU information and create the organization hierarchy.
4. After you have completed the template, click *Organization Structure File Upload*, and upload the file.
5. Click *Confirm*.

Creating an Organization Unit(OU)

Organizational Units (OUs) are folders used to organize your sub-organizations within your root organization. FortiRecon currently supports a single level of OU structure.

Perform the following steps to create an OU for a client.

1. In FortiCloud account, go to *Services > Organization*.
2. In the navigation menu, hover over the *Root Organization* name and click the gear icon.
3. Click *Add a SubOU*. The *Add a SubOU to <org_name>* dialog opens.
4. Enter the *OU Name* and *OU Description*, then click *Confirm*. The new OU is added to the organization.

Add a SubOU to FortiRecon

Input Organization info
 Upload Organization Structure

PARENT OU NAME PARENT OU ID

OU NAME*

OU DESCRIPTION

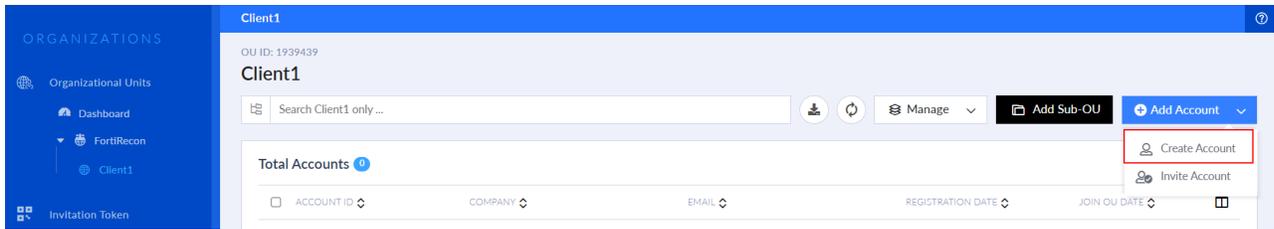
Cancel
Confirm

Creating a Member Account

A Member Account is a FortiCloud account that joins an Organization. New Member Accounts can be created directly within the *Root account Organization* or a *SubOU*.

Perform the following steps to create a member account.

1. Select the Organization Unit (OU) that you want to add the Member Account to.
2. Click *Add Account > Create Account*. The *New Member Account* dialog is displayed.



3. Select *I want to use a real email* to input the email address. Fields are displayed to enter the email address.
4. Select the OU that you want the Member Account to be linked to from the *Choose an OU* drop down menu.

New Member Account

I want to use a real email

<input type="text" value="* Email"/>	<input type="text" value="* Confirm Email"/>
<input type="text" value="* Choose an OU
FortiRecon/Client1"/>	
<input type="text" value="* First Name"/>	<input type="text" value="* Last Name"/>
<input type="text" value="Title"/>	<input type="text" value="* Company"/>
<input type="text" value="* Address"/>	<input type="text" value="* Country
Select a Country"/>
<input type="text" value="* City"/>	<input type="text" value="State/Province"/>
<input type="text" value="ZIP/Postal Code"/>	<input type="text" value="* Phone"/>
<input type="text" value="Fax"/>	<input type="text" value="Industry
Industry"/>
<input type="text" value="Organization Size
Organization Size"/>	

5. Configure the *New Member Account* dialog fields with sub-organization information.
6. Click *Submit*. A confirmation message is displayed.



For more information on creating member account, see [FortiCloud Services > Organization Portal > Creating new Member Accounts](#).

Creating a pAdmin account

The IAM account with root organization admin access is called a pAdmin account. This account is required to log in to FortiRecon and provision FortiRecon. See [User Roles](#).

Perform the following steps to create a pAdmin account.

1. Log in to <https://support.fortinet.com/> using your FortiCloud *Root Account*.
2. Go to the *Services > IAM* portal.
3. Create a new permission profile for the pAdmin account.
 - a. Go to *Permission Profiles* and click *Add New*.
 - b. Set the type to *Organization*.
 - c. Add the following portals and enable *Admin* access.
 - *FortiRecon*
 - *IAM*
 - *Organizations*
 - *FortiFlex*
 - *Asset Management*
 - *FortiCare New*
 - d. Click *Submit*.

The screenshot shows the 'New Portal Permission Profile' configuration page. The 'BASIC INFO' section includes the 'Permission Profile Name' (pAdmin) and 'Status' (Active). The 'Description' is 'IAM user for root organization.' The 'Select a Type' dropdown is set to 'Organization'. The 'PERMISSION PROFILE' section lists several portals with their access types:

- Asset Management:** Entitlement Management (Read & Write), Asset Maintenance (Read & Write), Renewal Notice (Read & Write), Vulnerability List (Read & Write), Account Services (Read & Write).
- FortiRecon:** Access is enabled, and 'Admin' access type is selected.
- IAM:** User / Permissions (Read & Write), Account (Read & Write), Credentials (Read & Write).
- Organizations:** Access is enabled, and 'Admin' access type is selected.
- FortiCare New:** Customer Service Tickets (Read & Write), Technical Support Tickets (Read & Write).



For more information, see [Permission profiles within Organizations](#) in the *Identity & Access Management*.

4. Create the pAdmin user account.
 - a. Click *Add New > IAM User*. The *User Details* pane opens.
 - b. Enter the user's details and click *Next*.

Username	Type the username with no spaces. The username specified here will be used to log in.
Full Name	Type the user's first and last name.
Email	Type the root account email address. The account used to create the organization is the root account.
Phone	Select the country code from the drop down, and type the user's phone number.
Description (Optional)	Type a description of the user.

- c. Select the *Organization* user type from *Select A Type* drop down list.
- d. Set the *Permission Scope* to the *Root Organization*.
- e. In the *Permissions Profile* drop down, select the permission profile created in the previous step.

Users / New IAM User

2. User Permissions

IAM User Name: pAdmin

BASIC INFO

Do you want your permission controlled by an IAM User Group?
 The User will adopt the permissions of the assigned User Group. You cannot edit the User's Asset or Portal Permissions while the User is assigned to a Group. Remove the User from the Group to enable editing of their permissions. Yes No

Select a Type*
 Select the type as Local for accessing the current account and Organization for accessing the OU accounts

Organization

PERMISSION SCOPE

Select an Organization Unit or Account: *

FortiRecon

PERMISSION PROFILE

Select a Permission Profile*

pAdmin

PERMISSION DETAILS

FortiRecon			Organizations			Asset Management			
Access	Access Type	Additional Permission	Access	Access Type	Additional Permission	Resources	Read Only	Read & Write	No Access
✓	Admin		✓	Admin		Entitlement Management		✓	

- f. Click *Next*. The Confirmation page is displayed.
- g. Review the user information, and click *Confirm*. The user's details are displayed.
- h. Click *Generate Password* to generate a password reset link and reset the password.



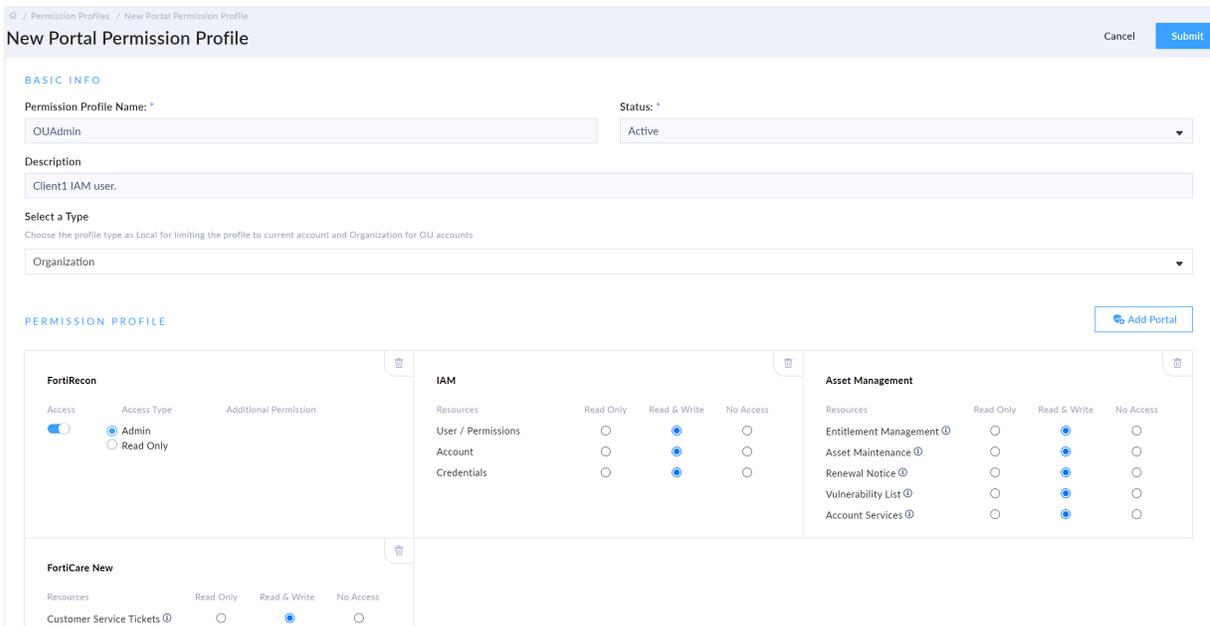
For more information, see [Creating users, user groups, and roles within Organizations](#) in the *Identity & Access Management*.

Creating an OUAdmin account

The IAM account with *admin* access and any *OU* except root organization as permission scope will be the OU Admin. This account is required by the sub-organization administrator for accessing FortiRecon. See [User Roles](#).

Perform the following steps to create a OUAdmin account.

1. Log in to <https://support.fortinet.com/> using your FortiCloud *Root Account*.
2. Go to the *Services > IAM* portal.
3. Create a new permission profile for the OUAdmin account.
 - a. Go to *Permission Profiles* and create a new profile.
 - b. Set the type to *Organization*.
 - c. Add the following portals and enable *Admin* access.
 - *FortiRecon*
 - *IAM*
 - *Asset Management*
 - *FortiCare New*
 - d. Click *Submit*.



For more information, see [Permission profiles within Organizations](#) in the *Identity & Access Management*.

4. Create the OUAdmin user.
 - a. Click *Add New > IAM User*. The *User Details* pane opens.
 - b. Enter the user's details and click *Next*.

Username	Type the username with no spaces. The username specified here will be used to log in.
Full Name	Type the user's first and last name.
Email	Type the member account email address. This email must match the one used when you created the member account.
Phone	Select the country code from the drop down, and type the user's phone number.
Description (Optional)	Type a description of the user.

- c. Set the type to *Organization*.
- d. Set the *Permission Scope* to the respective *OU* of the sub-organization.
- e. In the *Permissions Profile* drop down, select the permission profile created in the previous step.

Users / New IAM User

2. User Permissions

IAM User Name: OUAdmin

BASIC INFO

Do you want your permission controlled by an IAM User Group?
 The User will adopt the permissions of the assigned User Group. You cannot edit the User's Asset or Portal Permissions while the User is assigned to a Group. Remove the User from the Group to enable editing of their permissions. Yes No

Select a Type*
 Select the type as Local for accessing the current account and Organization for accessing the OU accounts

Organization

PERMISSION SCOPE

Select an Organization Unit or Account: *

FortiRecon/Client1

PERMISSION PROFILE

Select a Permission Profile*

OUAdmin

PERMISSION DETAILS

FortiRecon	Asset Management	FortiCare New
Access <input checked="" type="checkbox"/> Access Type: Admin Additional Permission	Resources Read Only Read & Write <input checked="" type="checkbox"/> No Access Entitlement Management ⓘ	Resources Read Only Read & Write <input checked="" type="checkbox"/> No Access Customer Service Tickets ⓘ

- f. Click *Next*. The *Confirmation* page is displayed.
- g. Review the user information, and click *Confirm*. The user's details are displayed.
- h. Click *Generate Password* to generate a password reset link.



For more information, see [Creating users, user groups, and roles within Organizations](#) in the Identity & Access Management.

The root account user must share the following details with the sub-organization administrator.

- **Account ID** - the Account ID of the root account user where IAM is added
- **Username** - the IAM username provided during user creation
- **Password reset link**

If the IAM user is logging in for the first time, email verification is required.

Adding FortiRecon Licensing to Organization Unit (OU)

You can use either the Standard or FortiFlex licensing method for each Organizational Unit (OU). See [Licensing](#).

Standard Licensing

Perform the following steps to add a standard license.

1. Log in to <https://support.fortinet.com/> using your *pAdmin* account.
 - a. If logging in for the first time, email verification must be completed.
2. In the *Make Selection* page, select the sub-organization member account.
3. Register the purchased license. For more information about registering products on FortiCloud, see the [FortiCloud Account Services > Registering products](#) documentation.
After registration, you can continue by provisioning FortiRecon , see [Provision FortiRecon](#).

FortiFlex Licensing

Perform the following steps to add a license using FortiFlex.

1. [Transferring FortiPoints to FortiFlex points](#)
2. [Creating a FortiRecon configuration in FortiFlex](#)
3. [Creating a FortiRecon entitlement in FortiFlex](#)

After creating entitlement, you can continue by provisioning FortiRecon , see [Provision FortiRecon](#). To manage entitlements, see [Managing Entitlements](#).

Transferring FortiPoints to FortiFlex points

FortiFlex FortiPoints can be transferred to FortiFlex points to be used in the FortiFlex portal. The conversion rate of FortiPoints to FortiFlex points, points rollover, and expiration information depend on the conversion option. Details on each option can be viewed in [FortiCloud > Marketplace > Spending > FortiFlex](#).



You can use the FortiFlex points calculator to estimate the total number of points that will be consumed before you transfer the FortiPoints. See [Points calculator](#) in *FortiFlex Administration Guide*.

Perform the following steps to transfer FortiPoints into FortiFlex points.

1. Log in to <https://support.fortinet.com/> using your FortiCloud *Root Account*.
2. Go to *Marketplace > Spending*.
3. Select *FortiFlex*.
4. Add a description of the transfer in the *Memo* field.
5. Enter the number of FortiFlex points you want. The *FortiPoints* needed field will update to show how many points must be transferred to receive the desired amount.
6. Click *Request Transfer*. The *Order Summary* is displayed.

ASSET MANAGEMENT

Marketplace / Spending / FortiFlex

Transfer my FortiPoints to FortiFlex Points

FORTIFLEX POINTS BALANCE 7,964.11 FORTIPOINTS BALANCE 10,400.00

MEMO*

Client1 FortiRecon Provisioning

The **Greater** Your **Purchase**,
The **Lower** Your **Expense**.

Please note that points transfers are final and transferred points **CANNOT** be returned.

FortiFlex Needed	Conversion Rate <small>FortiFlex Point/FortiPoint</small>	Rollover <small>unconsumed FortiFlex points rollover at anniversary date</small>
~ 50K	1.2	50%
50K ~ 1M	1.2	100%
1M ~ 10M	1	100%
10M ~	0.8	100%

FortiFlex Points wanted
All values entered/calculated will be rounded up to the nearest integer.

6,000

FortiPoints needed

7200.00

Cancel Request Transfer



- If you do not have enough FortiPoints to complete the transfer, a warning will display the number of outstanding points. Select *Register More Points* to register FortiPoints or select *Go Back To Edit* to reduce the number of FortiFlex points needed.
- To purchase *FortiPoints*, contact [Fortinet Support](#). Once you have purchased your licenses, register them in your FortiCloud account. See [FortiCloud Services Asset Management Guide > Registering Assets](#).

7. Click *Transfer Points*. The points will be transferred and the transfer record will display on the *History* page.

Creating a FortiRecon configuration in FortiFlex

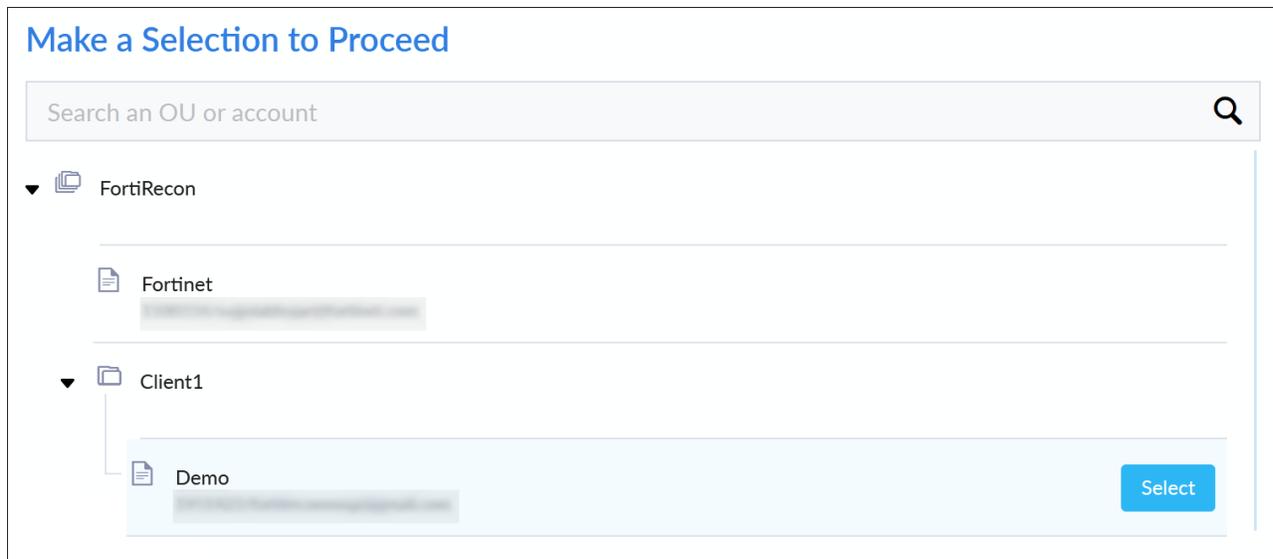
Configurations allow you to define and customize a FortiRecon service package, including the number of assets, internal networks, executives, and vendors to be monitored.



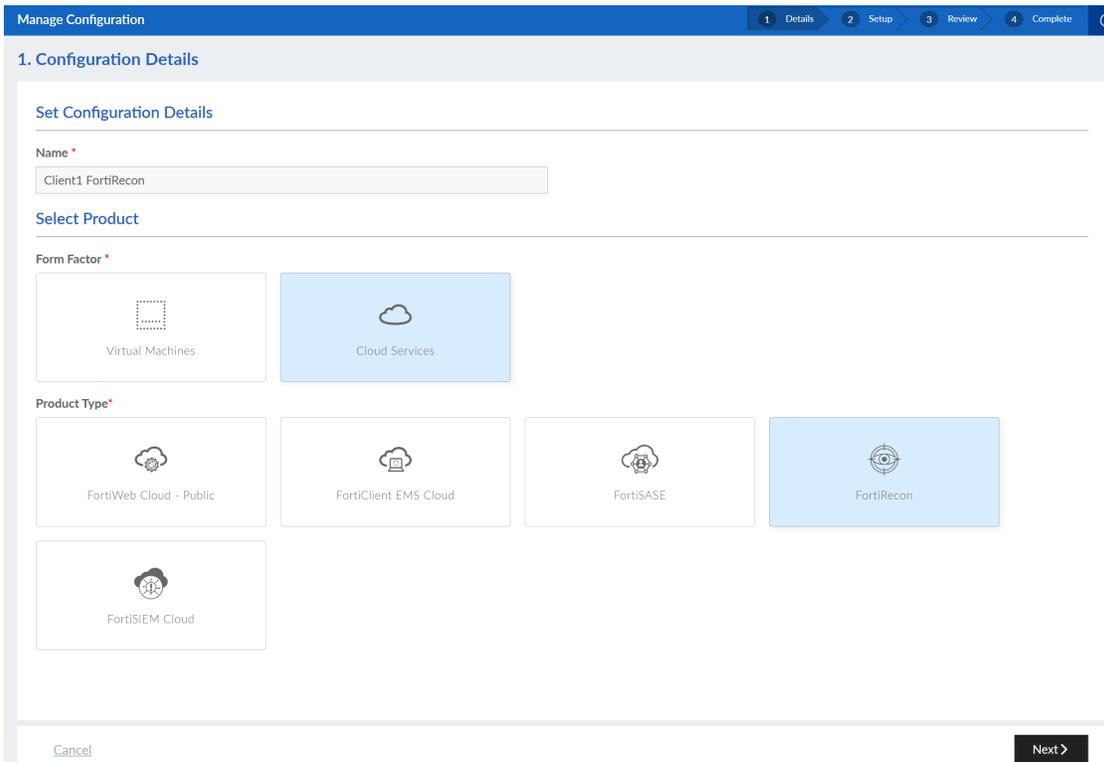
You can use the FortiFlex points calculator to estimate the total number of points that will be consumed before you create the configuration. See [Points calculator](#) in *FortiFlex Administration Guide*.

Perform the following steps to create a FortiRecon configuration in FortiFlex.

1. Log in to <https://support.fortinet.com/> using your *pAdmin* account.
 - a. If logging in for the first time, email verification must be completed.
2. In the *Make Selection* page, select the sub-organization member account.



3. Go to *Services > FortiFlex*.
4. In FortiFlex, go to *Configurations*, and click *New Configuration*.
5. In the *Configuration Details* page, set the following configuration details and click *Next*.
 - *Name* - Enter a configuration name.
 - *Form Factor* - Select *Cloud Services*.
 - *Product Type* - Select *FortiRecon*.



6. In the *Configuration Setup* page, set configuration values and click *Next*.

Service Package	Select any one from the following. <i>External Attack Surface Monitoring</i> <i>External Attack Surface Monitoring & Brand Protect</i> <i>External Attack Surface Monitoring & Brand Protect & Adversary Centric Intelligence</i>
Number of Monitored Assets	Enter a value between 200 to 1000000.
Internal Attack Surface Monitoring (number of networks)	Enter a value between 0 to 100.
Executive Monitoring (number of executives)	Enter a value between 0 to 1000. This field is only enabled when <i>External Attack Surface Monitoring & Brand Protect</i> or <i>External Attack Surface Monitoring & Brand Protect & Adversary Centric Intelligence</i> is selected as a Service Package. Otherwise, the value is set to 0.
Vendor Monitoring (number of vendors)	Enter a value between 0 to 1000. This field is only enabled when <i>External Attack Surface Monitoring & Brand Protect & Adversary Centric Intelligence</i> is selected as Service Package. Otherwise, the value is set to 0.

Manage Configuration

2. Configuration Setup

Set Configuration Values

Service Package *

Number of Monitored Assets *

Internal Attack Surface Monitoring (number of networks)

Executive Monitoring (number of executives)

Vendor Monitoring (number of vendors)



If the actual number of assets in the FortiRecon exceeds the licensed limit, access to modules may be restricted until the asset count is reduced to within the licensed limits.

- Review the configuration details, and click *Submit*.

8. Click *List* to view the configuration in the *Configurations* tab.



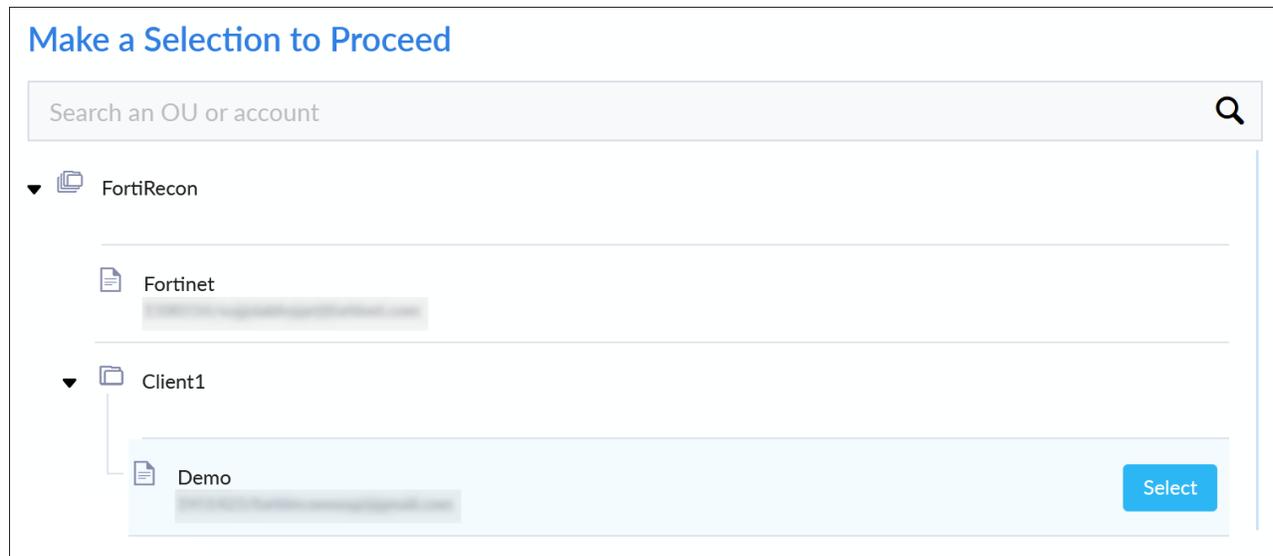
For more information, see [Creating a Cloud service configuration](#) in *FortiFlex Administration Guide*.

Creating a FortiRecon entitlement in FortiFlex

Entitlements use the configuration to create the service. FortiFlex points begin to be consumed once an entitlement is activated for the first time.

Perform the following steps to create a FortiRecon entitlement.

1. If not logged in, log in to <https://support.fortinet.com/> using your *pAdmin* account.
2. In the Make Selection page, select the sub-organization member account.



3. Go to *Services > FortiFlex*.
4. Go to *Flex Entitlements*, and click *New Flex Entitlement*. The *Add Flex Entitlement* page opens.
5. Configure the Cloud entitlement and click *Next*.
 - *Product Type* - FortiRecon
 - *Configuration* - Select the previously created FortiRecon configuration from the list.
 - *Number of Flex Entitlements* - Enter the number of entitlements.
 - *Description* - Enter a description.
 - *Termination Mode* - Select *Follow Program* to terminate the machine when the program expires. Select *User Defined*, and select a date in the calendar to specify the termination date.



FortiRecon license generated through FortiFlex must have a minimum duration of 3 months.

- *Asset Folder* - Assign the service to a folder in *My Assets*.

The screenshot shows a web interface for adding flex entitlements. At the top, there's a blue header with the title 'Add Flex Entitlement(s)' and a progress bar with three steps: '1 Details', '2 Confirmation', and '3 Complete'. Below the header, the main content area is titled '1. Flex Entitlement Details'. Inside this area, there's a form with the following fields:

- Product Type:** A dropdown menu with 'FortiRecon' selected.
- Configuration:** A dropdown menu with 'FortiRecon Client 1' selected.
- Number of Flex Entitlements:** A numeric input field with '1' entered.
- Termination Mode:** Two radio buttons: 'Follow Program' (unselected) and 'User Defined' (selected).
- Asset Folder:** A dropdown menu with 'My Assets' selected.
- Description:** A text input field containing 'FortiRecon entitlement for Client 1'.
- Expiration Date:** A date picker field showing '31 / 12 / 2024'.

6. Review the *Flex Entitlement Details* and *Program Information*, and click *Submit*.



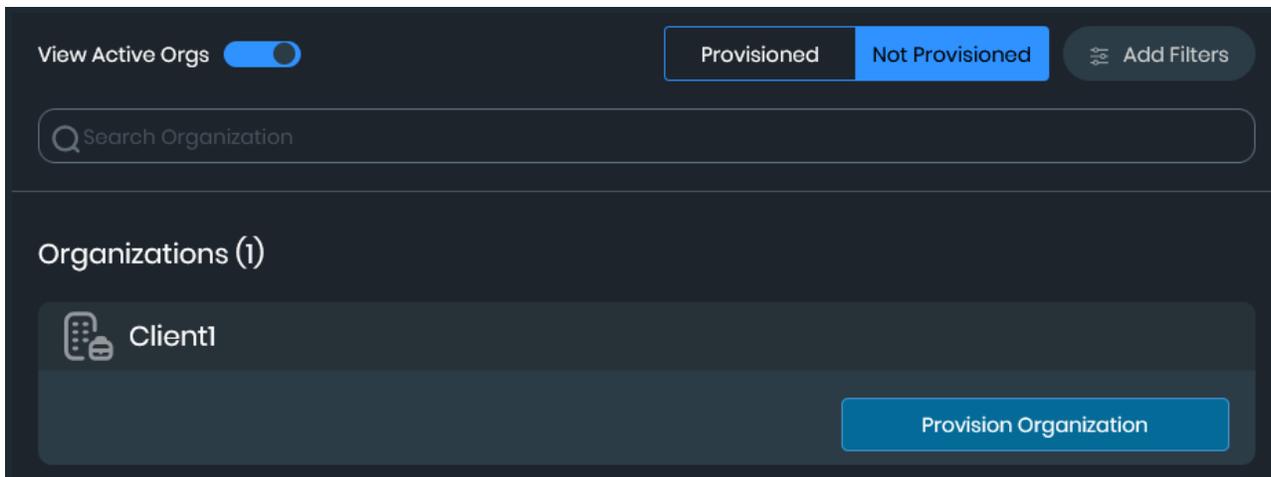
For more information on, see [Creating Cloud service entitlements in FortiFlex Administration Guide](#).

Provisioning FortiRecon

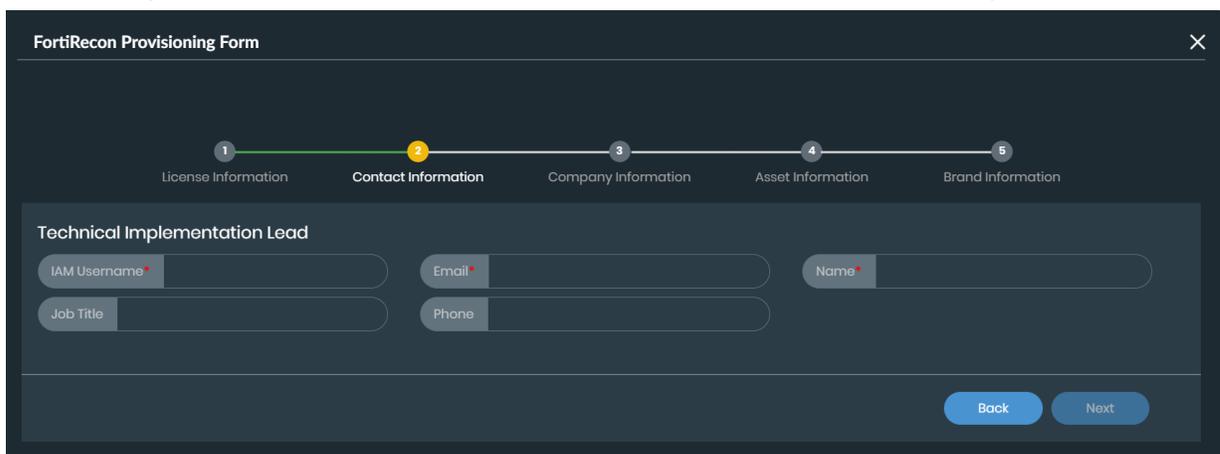
Once the organization structure is created, IAM user and license are added you will be able to provision FortiRecon organizations.

Perform the following steps to provision FortiRecon.

1. Login to FortiRecon portal using pAdmin credentials.
2. If logging in for the first time, email verification must be completed.
3. After verifying the email successfully, reload the FortiRecon portal. The FortiRecon *Organization* dashboard is displayed.
4. Enable the *View Active Orgs* toggle and select *Not Provisioned*.
5. Click *Provision Organization* for the organization that you want to provision.



6. Provide the necessary information in the FortiRecon Provisioning Form.
 - a. *License information* will be auto fetched. Click **Next**.
 - b. In *Contact Information* section, enter the IAM username that belongs to the IAM user added to this OU, and upon entering the IAM username, other fields such as email and name will be automatically filled.



- c. In *Company Information* , enter the primary domain. If the domain already exists, a prompt appears. Contact *Fortinet Support* to proceed further.
 - i. Once primary domain validated, enter your organization's information in the *Company Information* fields. Click *Upload Company Logo* to browse and upload your organization's logo.

- ii. If your organization is a Financial Institution issuing credit or debit cards, select the checkbox. This will enable the *Card Information* step.

The screenshot shows the 'FortiRecon Provisioning Form' at the 'Company Information' step (step 3 of 5). The progress bar indicates steps: 1 License Information, 2 Contact Information, 3 Company Information (highlighted), 4 Asset Information, and 5 Brand Information. The form includes:

- Primary Domain: onboardingrecon.com (with a green checkmark)
- Company Name: FortiRecon
- Website: fortirecon.forticloud.com
- Business Sector: Financial Services (dropdown menu)
- Region: Asia Pacific and Japan (dropdown menu)
- Country: India (dropdown menu)
- Checkbox: Is your Organization a Financial Institution who Issues Credit / Debit Cards to your clients?
- Buttons: Upload Company Logo, Back, Next

- d. *Asset Information*. Enter your organization's assets information including primary, secondary and sub domains, IP addresses, IP range, ASN, assets to be excluded from monitoring.

The screenshot shows the 'FortiRecon Provisioning Form' at the 'Asset Information' step (step 4 of 5). The progress bar indicates steps: 1 License Information, 2 Contact Information, 3 Company Information, 4 Asset Information (highlighted), and 5 Brand Information. The form includes:

- Primary Domain: onboardingrecon.com
- Text area: Enter assets belonging to the organisation. Example: 1.1.1.1 (IP Address), 1.1.1.0/24 (IP Prefix), asi.com (Secondary Domain), test.asi.com (Sub-domain), AS328739 (ASN). The asset entries should be one entry per line.
- Text input: 192.168.1.1 (Validated IP prefix)
- Text input: (Validated secondary domains)
- Text input: (Validated sub domains)
- Text input: (Validated AS Numbers)
- Text area: Enter assets to be excluded
- Buttons: Validate, Back, Next

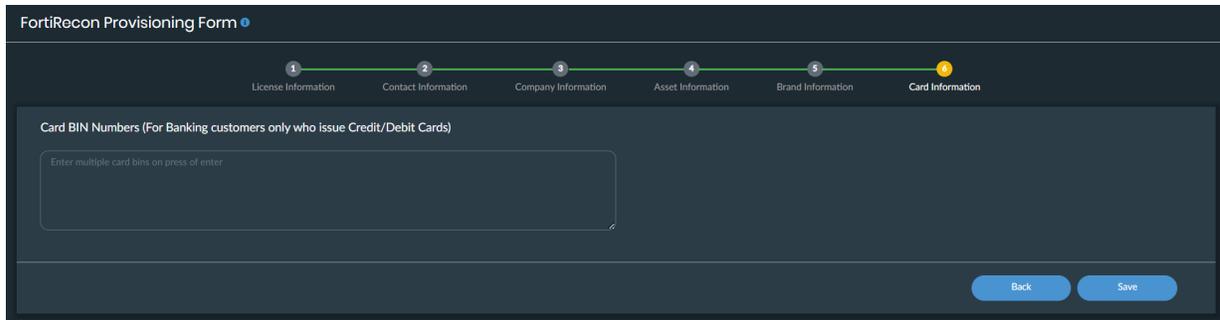
- e.
- f. *Brand Information*. Enter your brand names, social media profile and mobile applications to be monitored. Click **Save**.

The screenshot shows the 'FortiRecon Provisioning Form' at the 'Brand Information' step (step 5 of 5). The progress bar indicates steps: 1 License Information, 2 Contact Information, 3 Company Information, 4 Asset Information, and 5 Brand Information (highlighted). The form includes:

- Customer Brand Names (e.g. FortiClient, FortiGate): Brand Names (input field)
- Social Media Monitoring (Add + button):
 - Facebook URL/Username (input field)
 - LinkedIn URL/Username (input field)
 - Instagram URL/Username (input field)
 - Twitter URL/Username (input field)
- Rogue Mobile Apps Monitoring (Add + button):

Name of Mobile Application	URLs of official listing (Google Store / Apple Store / Third Party Store)	Name (s) of App developer (optional)	Actions
- Buttons: Back, Save

- g.
- h. *Card Information*. Enter Card BIN numbers. This is only for financial institutions who issue credit or debit cards.



- i. Click **Save**. Your information will be sent to the FortiRecon team for review and provisioning.

Once the Organization is provisioned, the following information is displayed. See [Organization Dashboard](#).

- Contract activation and expiration dates.
- The entitlements available for the organization.

To log in to the FortiRecon portal for the provisioned organization, click *Login*.



When *OU User* logs in to the FortiRecon portal for the first time, *Your account is yet to be provisioned* message will be displayed.

The *pAdmin* or *OU Admin* will receive a warning for the *OU User* under *Profile Settings > Users*, where they can provide access to the user by clicking on the edit button and assigning an access template to them. Once access is granted, the *OU User* will be notified and can subsequently access the FortiRecon portal.

Sub-organization administrators can create and manage IAM users. See [Users](#).

Managing Entitlements

You can modify configurations and entitlements within FortiFlex even after FortiRecon has been provisioned for your client. The process allows you to adjust resource allocation, expiration date and service details as needed.

Updating a FortiRecon Configuration

Perform the following steps to edit the configuration.

1. Log in to <https://support.fortinet.com/> using your *pAdmin* account.
2. In the *Make Selection* page, select the sub-organization member account.
3. Go to *Services > FortiFlex*.
4. In *FortiFlex*, go to *Configurations*, and click configuration name you want to modify.
5. In *Details* tab, click *Edit*.
6. Edit the configuration and click *Next*.
 - a. In *Configuration Details* page, you can modify *Name*.
 - b. In *Configuration Setup* page, you can modify the desired configuration values.
7. Review the configuration and click *Submit*. A confirmation dialog opens.

8. Click *Confirm* to finalize the changes.

Update Configuration

Are you sure you want to update this configuration?

Changing parameters of this configuration, will cause all Flex Entitlements which have been created based on it to be updated. Do you want to proceed?

[Close](#) **Confirm**



It may take up to 3 hours for any modifications to take effect in FortiRecon.

Updating a FortiRecon Entitlement

Perform the following steps to edit the entitlement.

1. Log in to <https://support.fortinet.com/> using your *pAdmin* account.
2. In the *Make Selection* page, select the sub-organization member account.
3. Go to *Services > FortiFlex*.
4. In *FortiFlex*, go to *Flex Entitlements*, and click *Serial Number* you want to modify.
5. In *Details* tab, click *Edit*.
6. In *Modify Flex Entitlement* page, you can modify the *Configuration* and *Expiration Date*.
7. Click *Submit*.

DetailsPoints

SUCCESS!
Flex Entitlement updated successfully.

[Back](#) Stop Edit

Flex Entitlement Details

Configuration:	FortiRecon Client 1
Status:	ACTIVE
Description:	Entitlement for Client 1
Start Date:	2024-09-20
Termination Date:	2025-01-31

User Roles

Based on the access type and permission scope provided, the following roles are supported for FortiRecon:

Role	Access	Permission Scope	Description
pAdmin	Admin	Root organization	The IAM user with <i>admin</i> access and <i>root organization</i> as permission scope will be the pAdmin. pAdmins have the ability to create and edit organizations within FortiRecon.
pUser	Read-Only	Root organization	The IAM user with <i>read only</i> access and <i>root organization</i> as permission scope will be the pUsers. pUsers have a complete view of the organization/OU structure and read only access to FortiRecon portal. They cannot create or edit organizations.
OU Admin	Admin	Any OU except root	The IAM user with <i>admin</i> access and any <i>OU</i> except root organization as permission scope will be the OU Admin. OU Admins will be admins for the respective organization provisioned under their OU.
OU User	Read-Only	Any OU except root	The IAM user with <i>read only</i> access and any <i>OU</i> except root organization as permission scope will be the OU User. OU Users have read only access and can view the organization/OU structure but they will not be redirected to the FortiRecon portal unless their access is provisioned by pAdmin or OU admin.
Root Account	The account that created the organization. Only root account users will able to enable or disable other IAM users by updating user profiles in FortiCare.		
Member Account	A Member Account is a FortiCloud account that joins an Organization.		

Overview

The *Overview* page is a central hub for visualizing and analyzing your organization's digital risk posture across *Attack Surface Management (ASM)*, *Brand Protection (BP)*, and *Adversary Centric Intelligence (ACI)* modules. This holistic view allows you to gain immediate situational awareness, enabling quick prioritization and detection of critical threats across all modules.

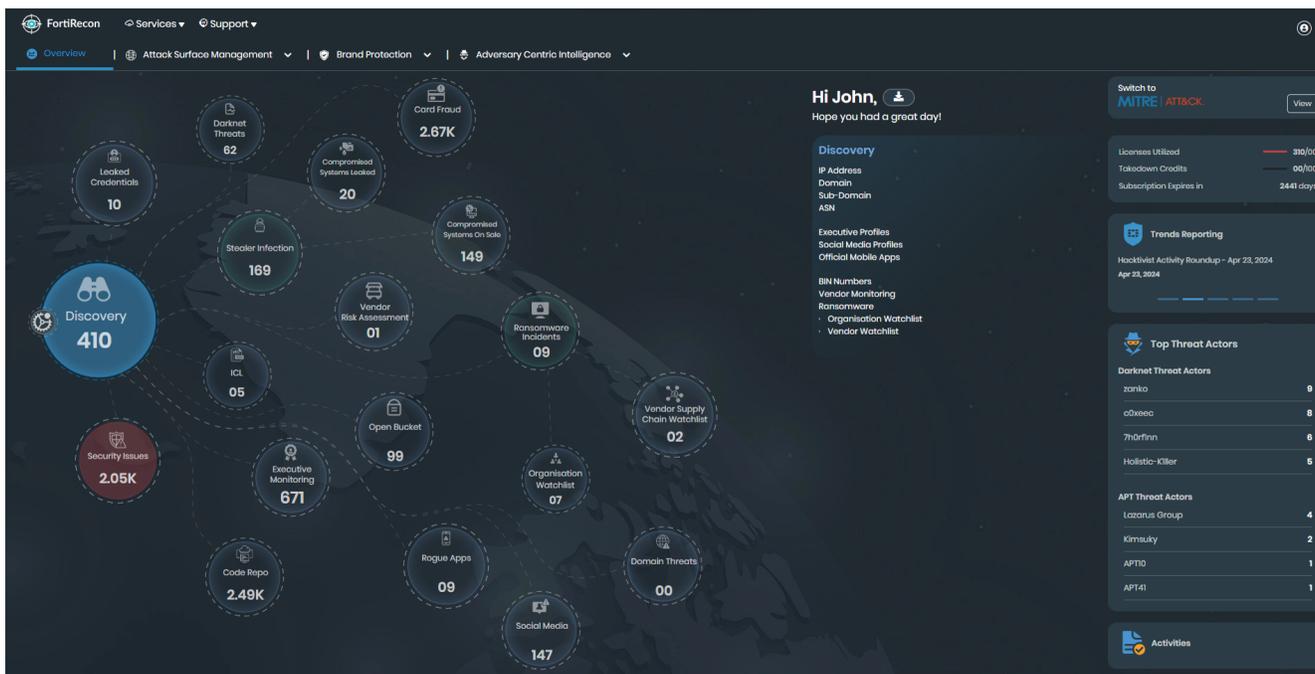
The *MITRE ATT&CK* view displays discovered data mapped onto corresponding techniques and sub-techniques, providing a valuable framework for understanding attacker motivations and potential attack paths. Click *View* on the *Overview* page to switch to MITRE ATT&CK view.



You will receive notification email when asset usage exceeds 100% and access to all modules except *Attack Surface Management > Asset Discovery* is blocked when usage reaches 150%. You can either reduce asset usage or contact *Fortinet Support* to purchase additional licenses.

From the *Overview* page, you can:

- View a summary of your organization's digital risk posture. See [Viewing Digital Risk Posture](#).
- View discovered data mapped to MITRE ATT&CK framework. See [Viewing MITRE ATT&CK Framework](#).
- Download the dashboard details as a PDF file. See [Downloading Executive Report](#).



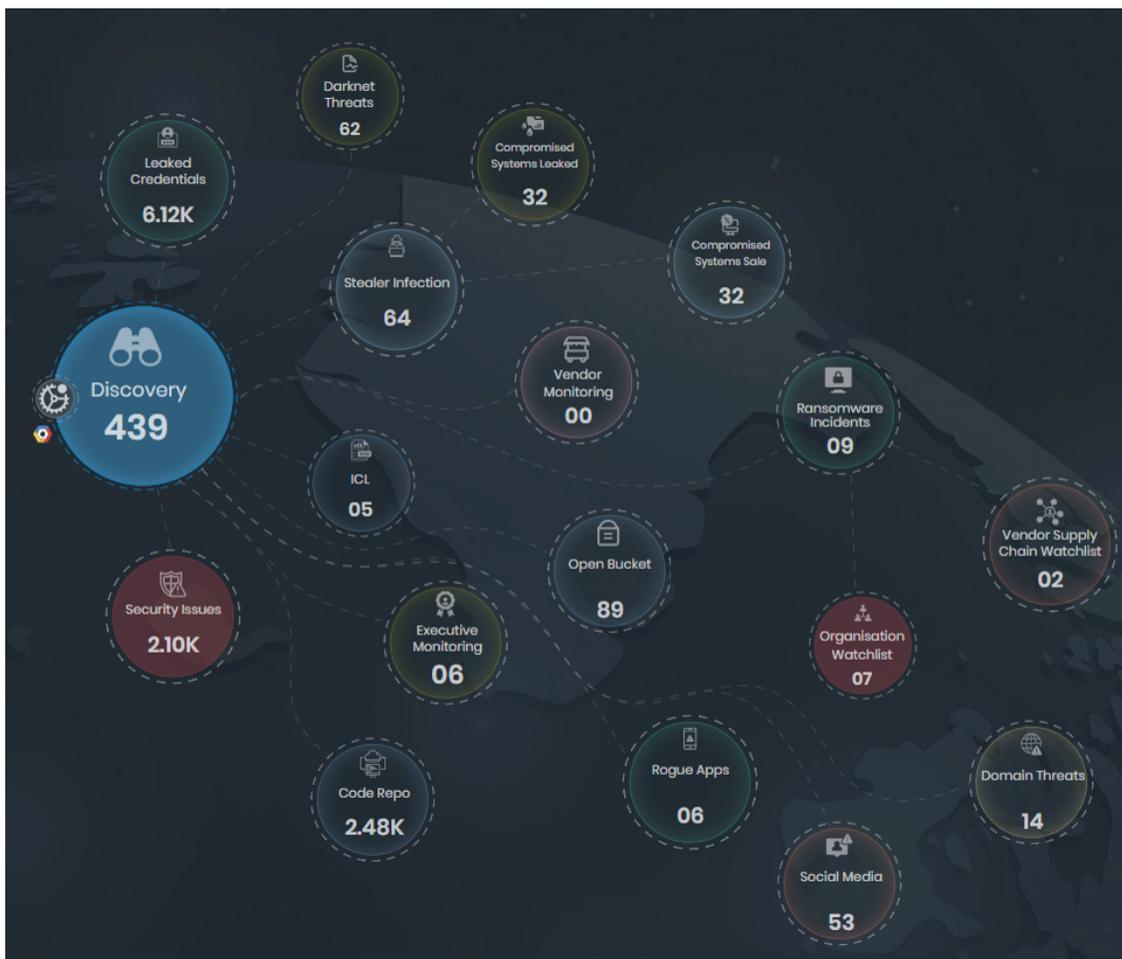
Viewing Digital Risk Posture

The *Overview* page displays a summary of your organization's digital risk posture including the following information.

- [Digital Footprint Map](#)
- [License Details](#)
- [Trends Reporting](#)
- [Top Threat Actors](#)
- [Activities](#)

Digital Footprint Map

The digital footprint map is an interactive visualization tool that enables you to quickly identify and prioritize critical threats across *Attack Surface Management (ASM)*, *Brand Protection (BP)*, and *Adversary Centric Intelligence (ACI)* modules.



Clicking any bubble in the digital footprint map displays the detailed information in the information widget. Clicking any list item within the information widget opens relevant FortiRecon page in a new tab.

Discovery i	
EASM	
IP Address	198
Domain	01
ASN	02
Brand Protection	
Brand Names	21
Executive Profiles	06
Social Media Profiles	02

Bubbles highlighted in red indicates that new threats are discovered within the past 30 days and require immediate attention.

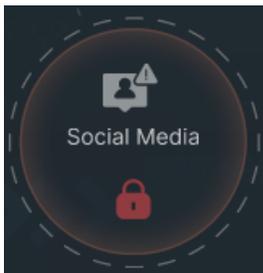


The digital footprint map includes the following information.

Bubble	Description	License Required
Discovery	Starting point of the digital footprint map. Displays the total count of discovered assets. Click the bubble to view the count for each discovered asset type. Hover over <i>gear</i> icon to view the added integrations.	FortiRecon EASM.
Security Issues	Displays the total count of potential security issues. Click the bubble to view the count for each security category.	
Leaked Credentials	Displays the total count of leaked credentials. Click the bubble to view the count for each domain.	
Domain Threats	Displays the total count of domain threats. Click the bubble to view the count for each threat type.	FortiRecon EASM and BP.
Social Media	Displays the total count of social media threats. Click the bubble to view the count for each profile type.	
Rogue Apps	Displays the total count of rogue applications.	

Bubble	Description	License Required
	Click the bubble to view the count for each application store.	
Executive Monitoring	Displays the total count of threats for the official executive profiles added. Click the bubble to view the count for each profile added.	
Code Repo	Displays the total count of attributes that have been exposed in code repositories. Click the bubble to view the count for each attribute type.	
Open Bucket	Displays the total count of files exposed in open buckets. Click the bubble to view the count for each cloud service provider.	
Darknet Threats	Displays the total count of the intelligence reports available. Click the bubble to view the count for each category.	FortiRecon EASM, BP, and ACI.
Stealer Infection	Displays the total count of possible infected systems that are affiliated with your employees or end-users.	
CS - Leaked	Displays the total count of stolen data that has been shared over various forums where the threat actor operates. Click the bubble to view the count for employees and users.	
CS - On Sale	Displays the total count of stolen data that is currently being offered for sale on various Darknet marketplaces. Click the bubble to view the count for domain.	
Vendor Monitoring	Displays the total count of threats for the third party vendors added. Click the bubble to view the count for each vendor.	
Ransomware	Displays the total count of past and potential ransomware incidents.	
Organization Watchlist	Displays the total count of ransomware incidents for the organizations added to the watchlist. Click the bubble to view the count for each organization.	
Vendor Supply Chain Watchlist	Displays the total count of ransomware incidents for the vendors added to the watchlist. Click the bubble to view the count for each vendor.	
Card Fraud	This bubble is only displayed for banking organizations that issue credit or debit cards.	

Access to certain bubbles is restricted based on your current license. Those marked with a lock icon require upgrading your license to view the detailed information. See [Licensing](#).



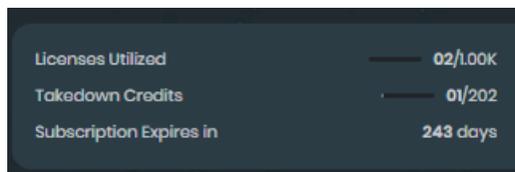
License Details

The license information widget on the right displays the following information.

License Utilized - Displays number of licenses utilized.

Takedown Credits - Displays number of takedown credits utilized.

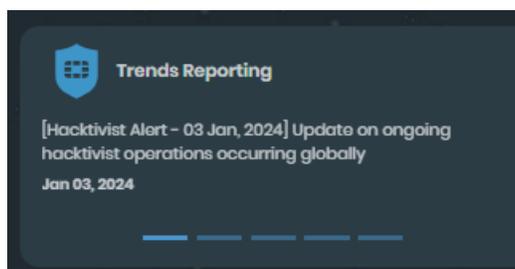
Subscription Expires in - Displays remaining days until your FortiRecon subscription expires.



Trends Reporting

The *Trends Reporting* widget displays the latest, published intelligence reports. Automatically scrolls through the reports, or you can click the blue bars at the bottom of the widget to view specific reports.

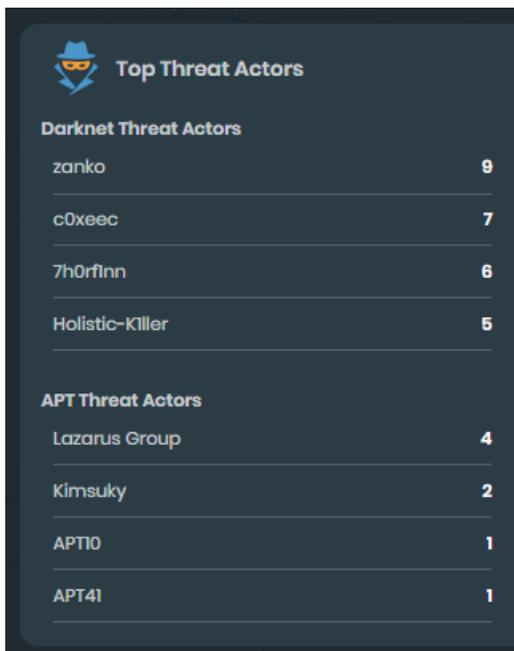
Click any report to view the detailed information.



Top Threat Actors

The *Top Threat Actors* widget displays the top five threat actors and Advanced Persistent Threat (APT) groups.

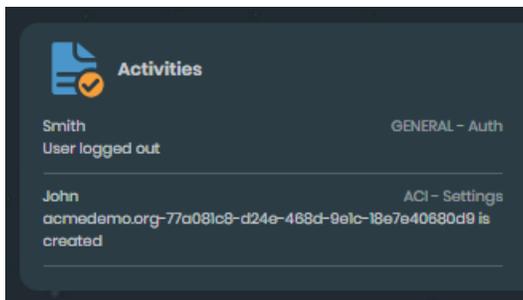
Click the name of a threat actor to display more details on the *Adversary Centric Intelligence > Reports* page.



Top Threat Actors	
Darknet Threat Actors	
zanko	9
c0xeec	7
7h0rflnn	6
Holistic-Killer	5
APT Threat Actors	
Lazarus Group	4
Kimsuky	2
APT10	1
APT41	1

Activities

The *Activities* widget displays a log of recent activities performed within FortiRecon.



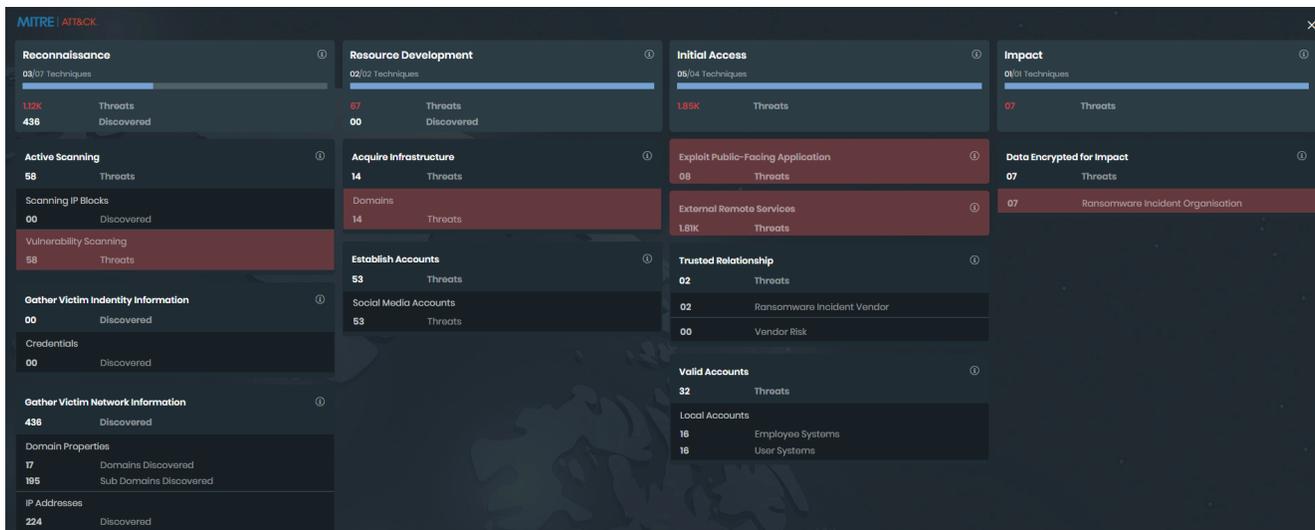
Activities	
Smith User logged out	GENERAL - Auth
John acmedemo.org-77a081c8-d24e-488d-9e1c-18e7e40680d9 is created	ACI - Settings

Viewing MITRE ATT&CK Framework

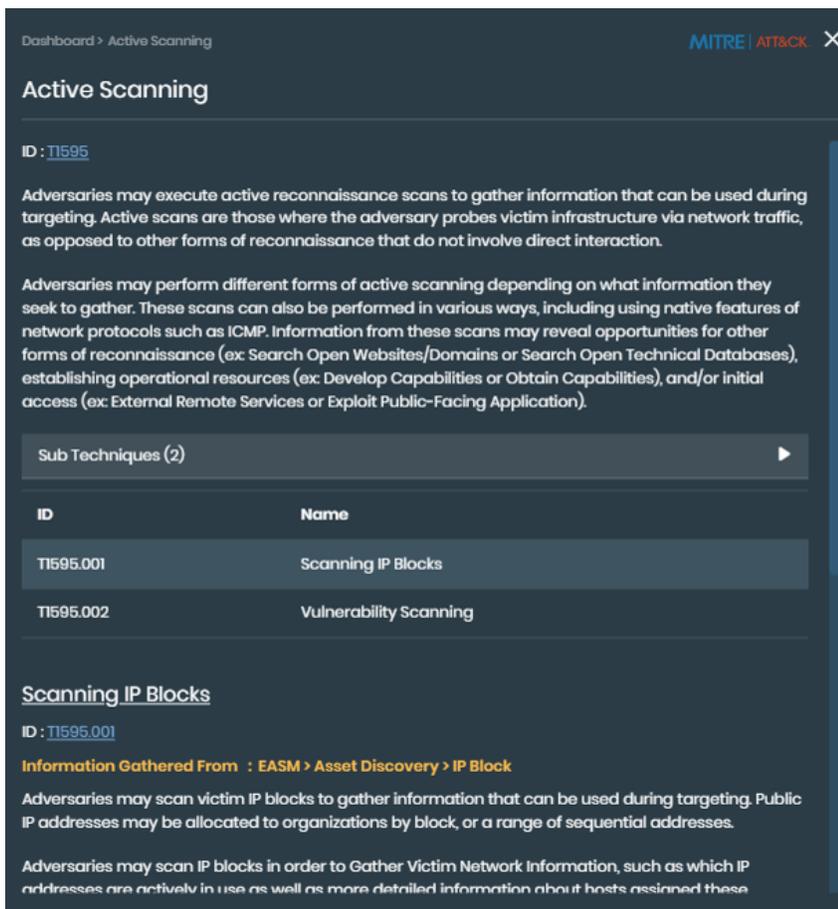
The *MITRE ATT&CK* view displays the discovered threats mapped to the corresponding techniques and sub-techniques of the ATT&CK framework. This allows you gain an insightful perspective into the tactics, techniques, and procedures (TTPs) employed by adversaries.



Techniques or sub-techniques highlighted in red indicates that new threats are discovered within the past 30 days and require immediate attention.



Clicking *Information* icon displays detailed information in the right pane. Clicking link next to *ID* field to opens the respective technique or sub-technique details page in MITRE ATT&CK website.



Downloading Executive Report

You can download the executive report that includes combined dashboard details as a PDF file.

To download the executive report:

1. Go to *Overview*.
2. Click *Download Report* icon.



3. Retrieve the download from *Profile Settings*. See [Retrieving downloads on page 215](#).

Attack Surface Management

Attack Surface Management (ASM) offers a complete view of potential risks across your external and internal digital environments. It combines discovery, vulnerability assessment, and threat intelligence to help you proactively manage and reduce your attack surface. ASM includes the following modules.

- *External Attack Surface Management (EASM)*: Provides an adversary's view of external-facing digital assets to discover potential exposures, vulnerabilities, and security gaps. See [EASM](#).
- *Internal Attack Surface Management (IASM)*: Maps and assesses risks within your networks, discovering internal assets and identifying vulnerabilities that could be exploited by attackers. See [IASM](#).

The ASM module displays the EASM and IASM scan results for your organization on the following pages :



- You will receive notification email when asset usage exceeds 100% and access to all modules except *Attack Surface Management > Asset Discovery* is blocked when usage reaches 150%. You can either reduce asset usage or contact *Fortinet Support* to purchase additional licenses.
- The *EASM/IASM* toggle is located at the top of the *Dashboard*, *Asset Discovery*, and *Security Issues* pages within the ASM module. This toggle allows you to seamlessly switch between EASM and IASM data.



Dashboard	Displays widgets that summarize your discovered assets and potential security issues related to your assets. You can click some widgets to display more details on the other tabs. See EASM or IASM dashboard.
Security Issues	Displays a summary of all potential security issues and details about each issue. You can filter security issues and change the status of security issues to reflect action taken at your organization. See EASM or IASM security issues.
Asset Discovery	Displays a summary of all discovered assets and details about each asset. You can mark assets as false positives, manually add assets, and manually remove assets. See EASM or IASM asset discovery.
Asset Management	Displays tags and groups used to filter and link assets. Also, you can configure IASM. See EASM Asset Management on page 73 .
Leaked Credentials	Displays a summary of leaked credentials by year and details about each breached dataset or leaked credential incident. See Leaked Credentials on page 106 .
Integrations	Displays the added integrations for <i>AWS</i> , <i>Azure</i> , <i>Google Cloud Platform</i> , <i>FortiDAST</i> , and <i>FortiGate</i> . See Integrations on page 109 .

EASM

The External Attack Surface Management (EASM) module provides information about your digital assets, potential security issues, and leaked credentials. You can use the EASM module to identify exposed known and unknown assets, learn about associated vulnerabilities, and prioritize the remediation of critical issues.

FortiRecon scans your digital assets and displays the results. There are two types of scans:

- **Scheduled Scan** - Full scan that consists of both *Passive* and *Active* scanners, performed weekly or monthly based on your subscription.
- **Continuous Scan** - Continuously scans all discovered assets to detect any updates such as new ports or services. The results are updated on refresh.

You can analyze EASM scan results in the FortiRecon portal.

- [EASM Dashboard](#)
- [EASM Security Issues](#)
- [EASM Asset Discovery](#)
- [EASM Asset Management](#)

EASM Dashboard

The *Attack Surface Management > Dashboard > EASM* page displays a number of widgets that summarize your discovered digital assets and potential security issues. From the *Attack Surface Management > Dashboard* page, you can:

- View a summary of your discovered digital assets. See [Viewing discovered assets summary on page 55](#).
- View a summary of potential security issues related to your organization. See [Viewing security issues summary on page 56](#).
- View a global map of your assets and the number of potential security issues affecting your organization. See [Viewing a map of assets on page 57](#).
- Download the dashboard content to your hard drive. See [Downloading the EASM dashboard details on page 58](#).

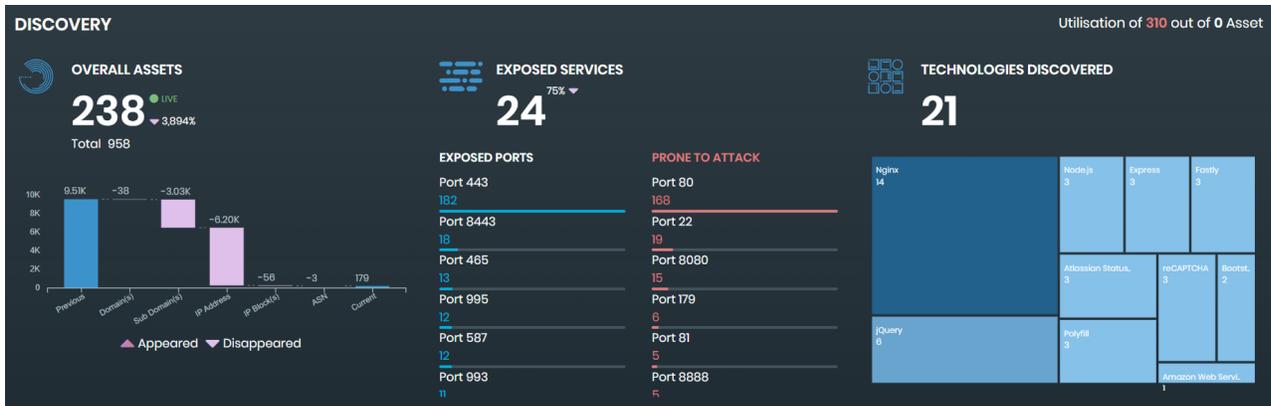
Viewing discovered assets summary

The *Attack Surface Management > Dashboard* page displays the following widgets that summarize your discovered digital assets in the *Discovery* section:

- Overall Assets
- Exposed Services
- Technologies Discovered

To view discovered assets summary:

1. Go to the *Attack Surface Management > Dashboard* page. Select *EASM* using toggle. The list of assets discovered by FortiRecon is displayed in the *Discovery* section.



2. Use the following widgets to review your discovered assets:

<p>Overall Assets</p>	<p>Displays the number of following entities discovered by FortiRecon:</p> <ul style="list-style-type: none"> • <i>Previous</i>: results of the previous FortiRecon scan. • <i>Domain</i>: number of domains found by the latest scan. • <i>Sub-domain</i>: number of sub-domains found by the latest scan. • <i>IP address</i>: number of IP addresses found by the latest scan. • <i>IP block</i>: number of IP blocks found by the latest scan. • <i>ASN (Autonomous System Number)</i>: number of ASNs found by the latest scan. • <i>Org name</i>: number of organizations found by the latest scan. • <i>Current</i>: results of the current scan
<p>Exposed Services</p>	<p>Displays all the exposed services discovered by FortiRecon, including exposed ports.</p> <hr/> <div style="text-align: center;">  <p>FortiRecon performs port scanning by examining over 1200 well known TCP ports.</p> </div>
<p>Technologies Discovered</p>	<p>Displays all the technologies discovered by FortiRecon.</p>

3. Click the *Overall Assets* widget or the *Exposed Services* widget to display more details on the *Asset Discovery* page. See [EASM Asset Discovery on page 64](#).

Viewing security issues summary

The *Attack Surface Management > Dashboard* page displays the following widgets that summarize potential security issues in the *Issues* section:

- Total Issues
- Severe Issues
- Widely Exploited Vulnerabilities
- Issue Wise Status
- Credential Breaches



Use the *Severe Issues* tooltip to review information on the count of unique *High* and *Critical* issues.

To view discovered assets summary:

1. Go to the *Attack Surface Management > Dashboard* page. Select *EASM* using toggle and scroll to the *Issues* section. The list of potential security issues is displayed.



2. Use the following widgets to review your security issues:

Total Issues	Displays the total number of issues discovered by the latest scan compared to the results of the previous scan.
Severe Issues	Displays the number of severe issues, and then lists the name, affected assets, and severity rating of the issues.
Widely Exploited Vulnerabilities	Displays the number of widely exploited vulnerabilities discovered, and then lists the name, affected assets, and severity rating of the issues.
Issue Wise Status	Displays a graph visualizing the number of issues in each status over time.
Credential Breaches	Displays the number of exposed credentials and the number of indexed credentials.

3. Click an issue or vulnerability to display more details on the *Security Issues* page. See [EASM Security Issues on page 58](#).

Viewing a map of assets

The *Attack Surface Management > Dashboard* page displays a global map of your digital assets in the *Asset Distribution* section. The color of the country aligns with the highest severity level of potential issues. If the country is blue, no issues are recorded.

To view a map of assets:

1. Go to the *Attack Surface Management > Dashboard* page. Select *EASM* using toggle and scroll to the *Asset Distribution* section. A global map of your discovered assets is displayed.



2. Use the table to view the number of assets and potential security issues in each country.

Column	Description
Country	Lists countries where your digital assets were discovered.
Assets	Displays the number of assets discovered in each country.
Issues	<p>Displays the number of potential security issues and indicates the severity rating of the issues by color:</p> <ul style="list-style-type: none"> • Red indicates critical. • Orange indicates high. • Yellow indicates medium. • Green indicates low. <p>The colors on the map align with the severity level of the issues.</p>

3. Click a country or issue in the table to display more details on the *Security Issues* page. See [EASM Security Issues on page 58](#).

Downloading the EASM dashboard details

The Attack Surface Management dashboard details can be downloaded to your hard drive. The process downloads a zip file that contains the following items:

- List of discovered assets in Microsoft Excel format
- List of issues in Microsoft Excel format
- An attack surface summary dashboard in PDF

To download the EASM dashboard:

1. Go to *Attack Surface Management > Dashboard*.
2. Choose *EASM* using toggle.
3. Click *Download*.
4. Retrieve the download from *Profile Settings*. See [Retrieving downloads on page 215](#).

EASM Security Issues

The *Attack Surface Management > Security Issues > EASM* page provides a summary of all potential security issues and details about each issue. From the *Security Issues* page, you can:

- View a summary about and details of all potential security issues related to your assets. See [Viewing security issues on page 59](#).
- Apply filters to the list of security issues to hone in on specific issues. See [Filtering security issues on page 60](#).
- Change the status of security issues to reflect changes made at your organization to address the issues. See [Changing the status of security issues on page 62](#).
- Add a comment to explain status changes made to security issues. See [Adding a comment to a security issue on page 63](#).
- Export security issues to an Excel file. See [Exporting security issues](#).

Viewing security issues

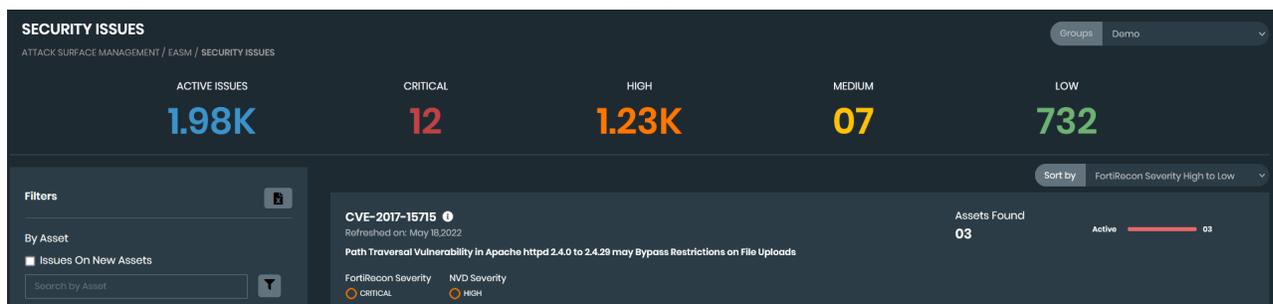
The *Attack Surface Management > Security Issues* page displays the number of active security issues and how many of the active security issues are rated critical, high, medium, and low based on FortiRecon severity rating. Color indicates the severity of a security issue:

Critical	Security issues rated <i>Critical</i> are red.
High	Security issues rated <i>High</i> are orange.
Medium	Security issues rated <i>Medium</i> are yellow.
Low	Security issues rated <i>Low</i> are green.

You can use search and filters to change the list of reports that are displayed, and then click each report to display its details.

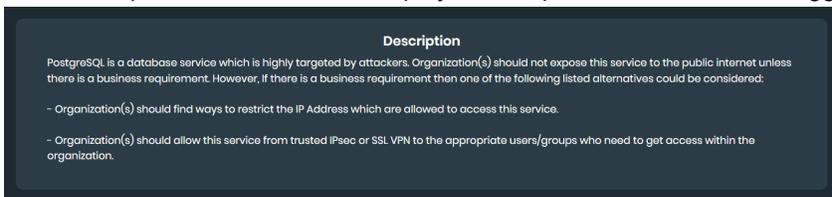
To view security issues:

1. Go to *Attack Surface Management > Security Issues*. Choose *EASM* using toggle, the respective security issues are displayed. The *Issues* bar across the top displays the number of active security issues and the number of active security issues that are rated critical, high, medium, and low security risk. For each report, the number of affected assets is also displayed.

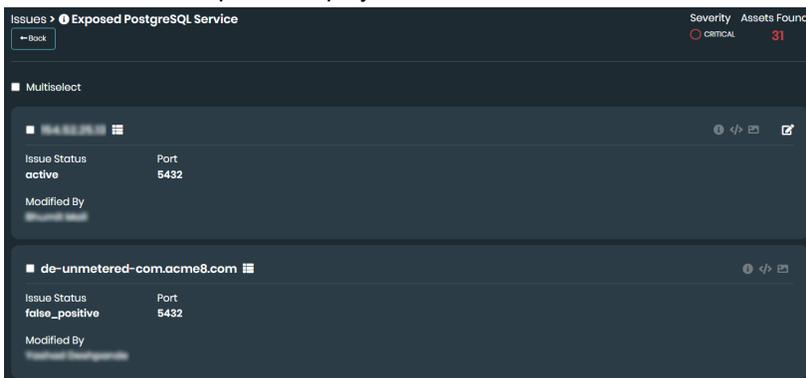


2. In the *Issues* section, click the number under *Critical*, *High*, *Medium*, or *Low*. The corresponding filter is selected and only those reports are displayed.
3. For identified CVEs, a brief description is displayed.

- For each report, click the *i* icon to display a description of the issue and suggested remediation steps.



- Click the title of a report to display details about affected assets.



- If available, view the path used to discover the issue:
 - Click the *Discovery Path* icon. The discovery path is displayed.



- Click the X in the top-right corner to close the window.

- When available, click the following icons:

Additional Information	Displays additional information about the security issue.
Raw Data	Displays raw data about the security issue.
Edit	Click to change the status of a security issue to reflect action taken by your organization to address the issue. See Changing the status of security issues on page 62 .

- Click the *Back* button.

Filtering security issues

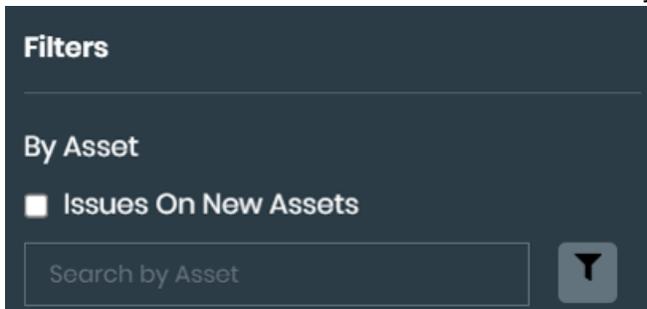
By default, the *Attack Surface Management > Asset Discovery* page displays all potential security issues, starting with critical security issues. You can use filters to display specific types of issues.



You can search for specific security issues using the *Search by Asset* field. Enter IP address information, such as 192.168.10.10 or 192.168.12.0/24.

To filter security issues:

1. Go to *Attack Surface Management > Security Issues*. Choose *EASM* using toggle, the respective security issues are displayed.
2. Select the *Issues On New Assets* checkbox to filter security issues on newly discovered assets.



3. Add advanced search features:
 - a. Click the filter icon. The advanced search fields are displayed.
 - b. Select the *Search Type*.
 - c. Click *Search*.
4. Select one or more filters:

Filter	Options
Status	Select one of the following statuses: <ul style="list-style-type: none"> • Active • Resolved • Risk accepted • False positive
FortiRecon Severity	Select one or more of the following severity statuses: <ul style="list-style-type: none"> • Critical • High • Medium • Low
NVD Severity	Note: Ensure <i>Vulnerable Software</i> category is selected to enable this filter. Select one or more of the following severity statuses: <ul style="list-style-type: none"> • Critical • High • Medium • Low
Category	Select one or more of the categories. The list of categories changes based on the displayed security issues.
Tags	Select one or more tags.

The list of filtered security issues is displayed.

5. (Optional) In the *Filters* list, toggle on *False Positive*. The list displays only issues marked with a status of *False Positive*.
6. In the *Filters* list, click *Clear* to remove all filters.

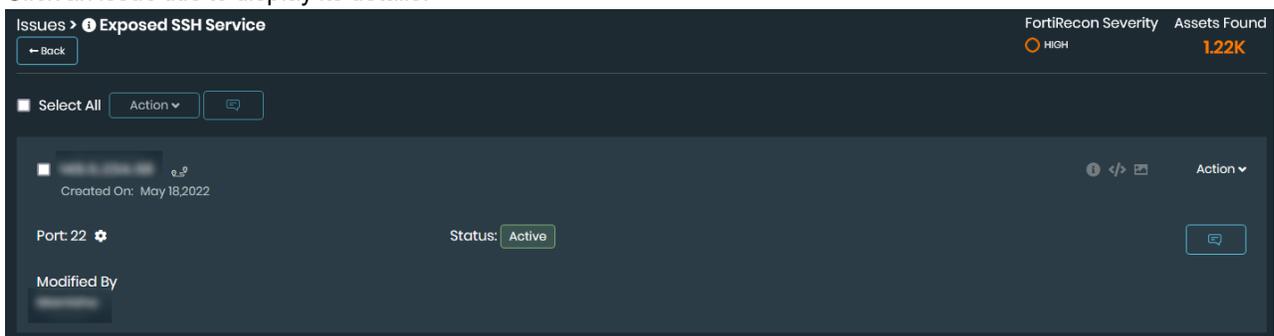
Changing the status of security issues

As you review and address security issues reported by FortiRecon, you can change the status of each issue to reflect your understanding and actions:

Mark as Active	Available only after you change the status of a security issue from active to another status. Select to move an issue back to the active status.
Mark as Resolved	Select to indicate actions taken at your organization have resolved the security issue.
Risk Accepted	Select to indicate actions taken at your organization have not fully resolved the security issue, but the current level of risk is acceptable.
False Positive	Select to indicate that the security issue is not an issue for your organization. The issue is considered a <i>False Positive</i> issue.

To change the status of security issues:

1. Go to *Attack Surface Management* > *Security Issues*. Select *EASM* using toggle. The discovered assets are displayed.
2. If necessary, select one or more filters.
The list of filtered security issues is displayed.
3. Click an issue title to display its details.



4. Click *Action* in the top-right corner to change the status by selecting one of the following options:
 - Mark as Resolved
 - Risk Accepted
 - False Positive
5. Click *Back* to display the list of issues again.

Adding a comment to a security issue

When editing a security issue on *Attack Surface Management > Security Issues*, the client can leave a comment to describe the changes and why they were made.



Selecting the comment button will open all comments for that issue. This allows you to review all changes and discussions related to the issue.

To add a comment to a security issue:

1. Go to *Attack Surface Management > Security Issues*.
2. Select a type of security issue.
3. Locate the issue you would like to make a change to.
4. Click the comment button. A list of previous comments and a text box is displayed.
5. Enter a comment related to the status change.
6. Click *Add*.

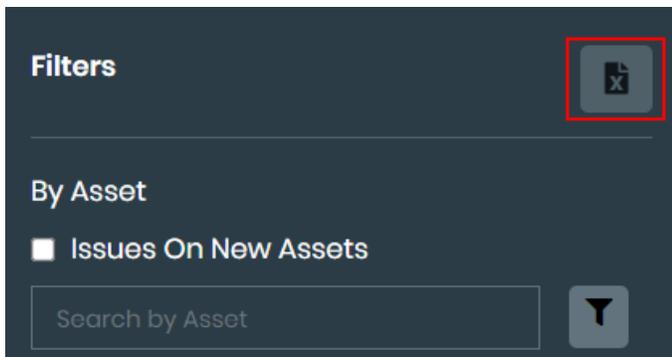
Exporting security issues

You can export a list of security issues into an Excel file. The spreadsheet will include the information on:

- Issue Category
- Issue Name
- Severity
- Asset
- Port
- Issue Status
- Tags
- Groups
- Last Refreshed On
- Additional Details
- Recommendations

To export the security issues:

1. Go to *Attack Surface Management > Security Issues*. Select *EASM* using toggle.
2. Optionally, apply filters to export specific security issues. See [Filtering security issues](#).
3. Click *Download* icon. The file is downloaded to your computer.



EASM Asset Discovery

The *Attack Surface Management > Asset Discovery > EASM* page provides a summary of all discovered assets and details about each asset. From the *Asset Discovery* page, you can:

- View a summary about and details of your assets. See [Viewing asset details on page 64](#).
- Mark discovered assets as false positives to remove them from the next scheduled FortiRecon scan. See [Marking assets as false positives on page 66](#).
- Manually add assets to FortiRecon to include them in the next scheduled scan. See [Adding assets manually on page 67](#).
- Manually remove assets from the next scheduled FortiRecon scan. See [Removing assets manually on page 68](#).
- Assign tags to assets for focused filtering. See [Assigning tags on page 68](#).



Tags are created in *Attack Surface Management > Asset Management*. Assets can also be assigned to tags in bulk in the *Asset Management* page. See [EASM Asset Management on page 73](#).

- Perform a FortiDAST vulnerability scan on assets. See [Performing a FortiDAST scan on page 70](#).
- View DNS health report for your domains. See [DNS Health Report on page 71](#).
- Export a list of assets to an Excel file. See [Exporting assets](#).

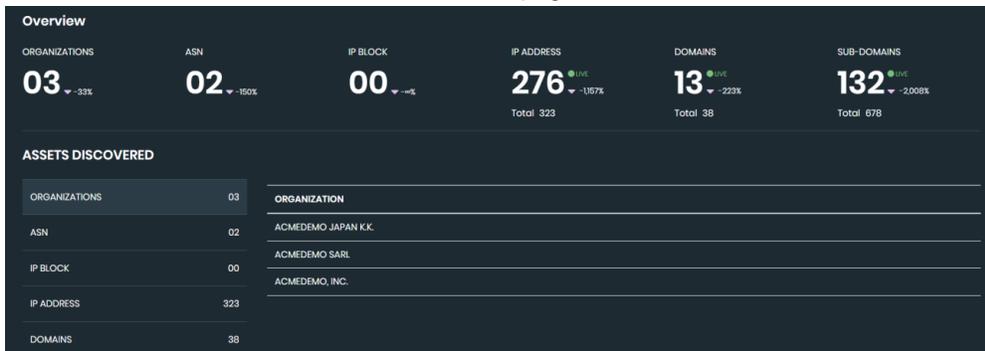
Viewing asset details

The *Attack Surface Management > Asset Discovery > EASM* page displays the number of assets in an *Overview* section and in an *Assets Discovered* list.

You can display details about an asset by clicking a number in the *Overview* section or a category in the *Assets Discovered* list. When you are reviewing asset details, you can mark assets as *False Positive* as needed to remove them from future FortiRecon scans.

To view asset details:

1. Go to *Attack Surface Management > Asset Discovery*.
2. Choose *EASM* using toggle. The number of discovered assets display in an *Overview* section across the top and in an *Assets Discovered* list on the left side of the page.

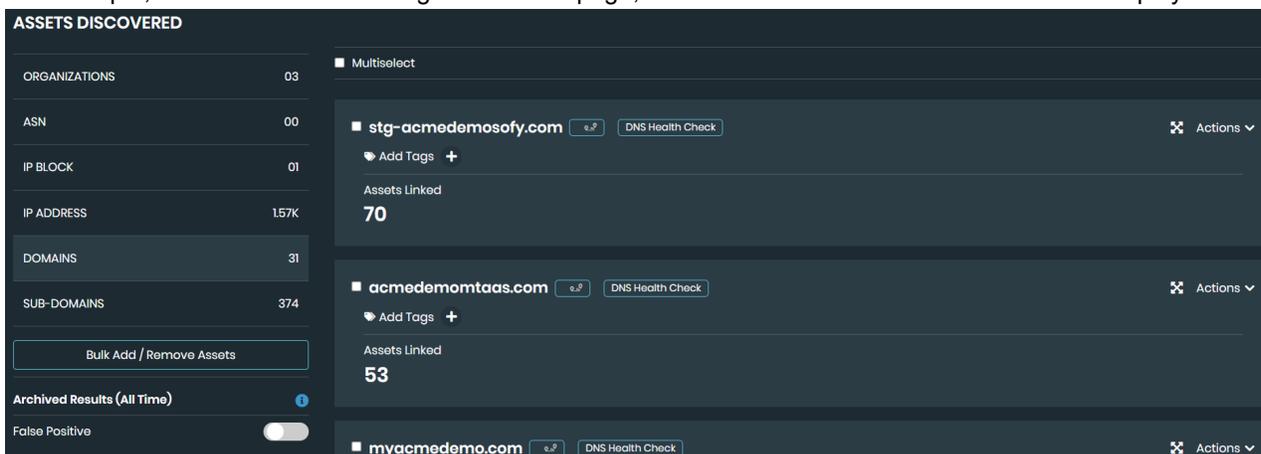


The following information is available:

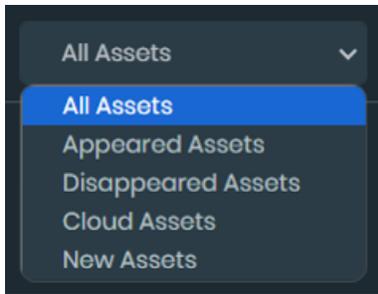
Organizations	The number of organizations that have been detected as belonging to you.
ASN	The number of autonomous system numbers (ASNs) that are linked to the detected organizations.
IP blocks	The number of IP blocks associated with the ASNs.
IP address	The number of IP addresses that are linked to the IP blocks.
Domains	The number of domains linked to your organization.
Sub-domains	The number of sub-domains linked to your organization.

3. In the *Overview* bar, click a number, or in the *Assets Discovered* list, click an asset category. Details about the selected item are displayed on the right side of the page.

For example, click *Domains*. On the right side of the page, the names of the discovered domains are displayed.



4. Filter the assets from the dropdown menu:

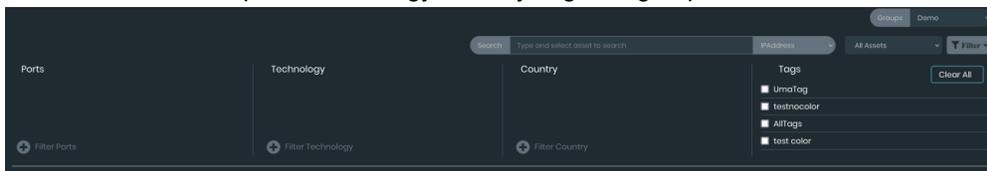


- a. Select *Appeared Assets* to show assets that appeared in the latest scan.
- b. Select *Disappeared Assets* to show assets that disappeared in the latest scan.
- c. Select *Cloud Assets* to show cloud-based assets.

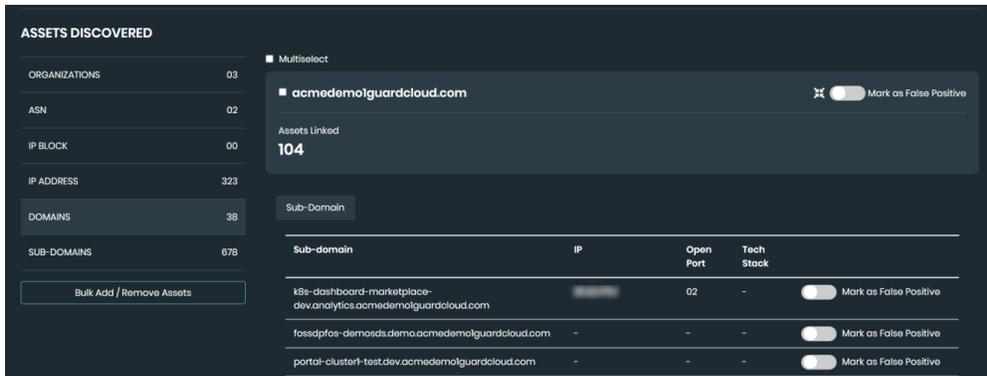


Cloud assets can only be filtered if the AWS cloud environment has been integrated. See [Integrations on page 109](#).

- d. Select *New Assets* to show new assets or assets that have updates.
5. Select *Filter* to define ports, technology, country, tag, and group filters.



6. Click the *Expand* icon. Details about the domain are displayed.



7. If an asset should be removed from the next scheduled FortiRecon scan, mark the asset as *False Positive*. See also [Marking assets as false positives on page 66](#).
8. Enable the **False Positive** toggle to show only assets marked as false positives. You can then use the search bar to find specific assets within this filtered list.

Marking assets as false positives

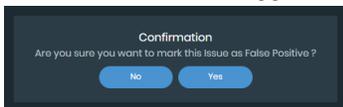
You can manually mark any of the following discovered assets as false positives to remove them from the next scheduled FortiRecon scan:

- ASN
- IP blocks

- IP addresses
- Domains
- Sub-domains

To mark false positives:

1. Go to *Attack Surface Management > Asset Discovery*. Select *EASM* using toggle. The discovered assets are displayed.
2. Click one of the following assets to display its details:
 - ASN
 - IP Blocks
 - IP Address
 - Domains
 - Sub-domains
3. Select an asset, and toggle on *Mark as False Positive*.



You can also select the *Multiselect* checkbox to select all or some assets, and then mark them as false positives.

A confirmation dialog is displayed.

4. Click Yes.

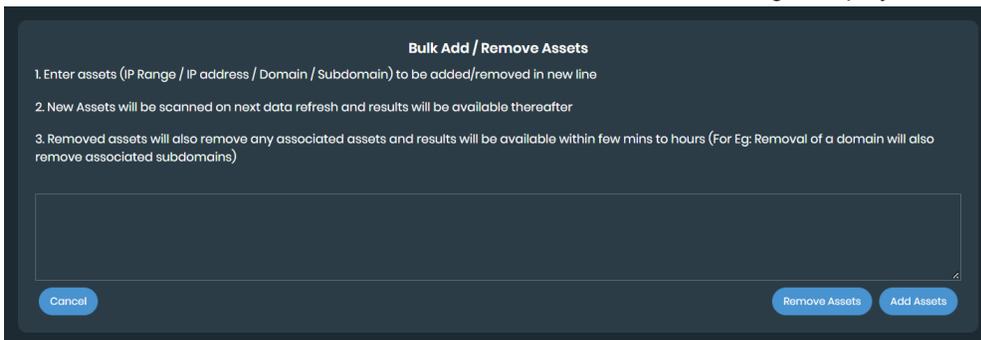
Adding assets manually

FortiRecon discovers assets for you. You can also manually add assets to FortiRecon scans.

When you manually add assets to FortiRecon, results for the assets are visible after the next scheduled FortiRecon scan.

To add assets:

1. Go to *Attack Surface Management > Asset Discovery > EASM*. The discovered assets are displayed.
2. Click *Bulk Add / Remove Assets*. The *Bulk Add / Remove Assets* dialog is displayed.



3. Enter the assets, and click *Add Assets*.



The scan results for the newly added assets will be available within 24 hours in FortiRecon portal.

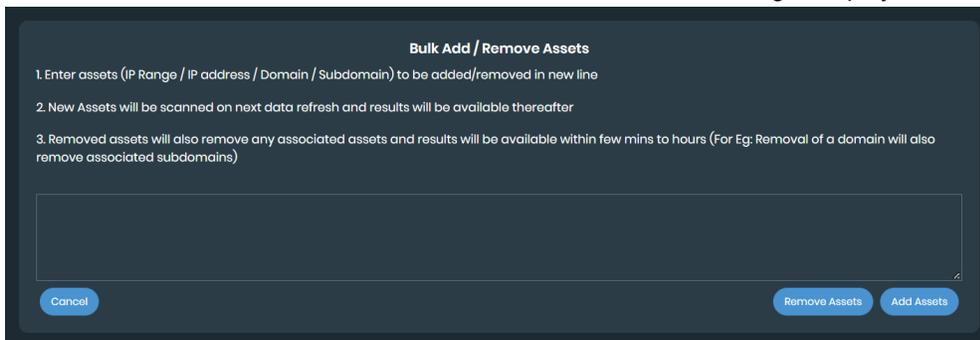
Removing assets manually

FortiRecon discovers assets for you. You can also manually remove assets from FortiRecon scans.

When you manually remove assets from FortiRecon, any associated assets are also removed. The changes are visible within minutes or hours, depending on the change.

To remove assets:

1. Go to *Attack Surface Management > Asset Discovery > EASM*. The discovered assets are displayed.
2. Click *Bulk Add / Remove Assets*. The *Bulk Add / Remove Assets* dialog is displayed.



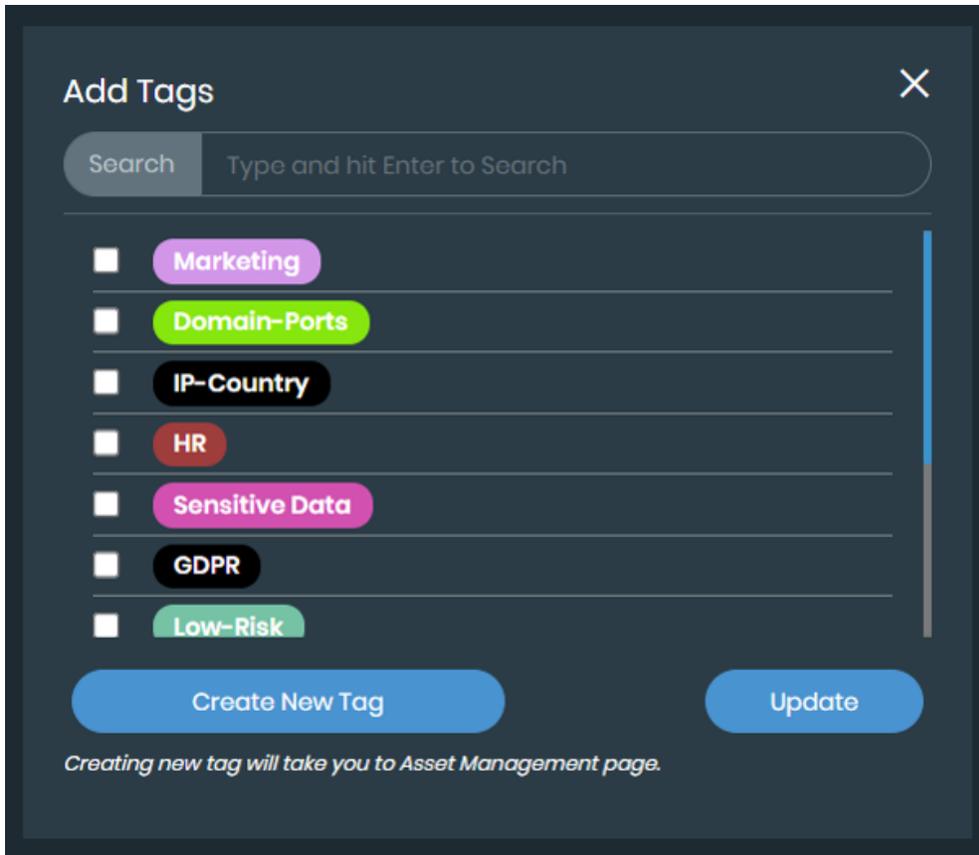
3. Enter the assets, and click *Remove Assets*.

Assigning tags

Tags can be assigned to assets for focused filtering in the *EASM > Asset Discovery* page. For more information on tags, see [EASM Asset Management on page 73](#).

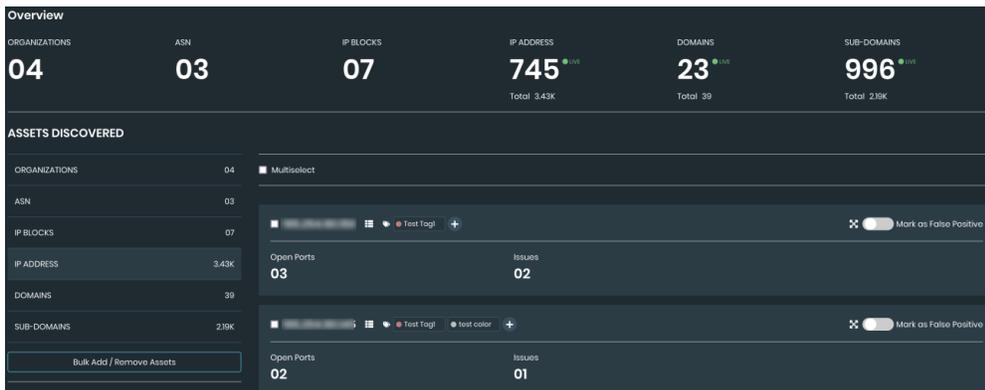
To assign a tag to an asset:

1. Go to *Attack Surface Management > Asset Discovery*.
2. Find the asset you want to tag and click the + icon. The *Add Tags* dialog is displayed.



To create a new tag, click *Create* in the *Add Tags* dialog or go to *Attack Surface Management > Asset Management* page. See [Creating a tag on page 73](#).

3. Select the tags you would like to assign.
4. Click *Add*.

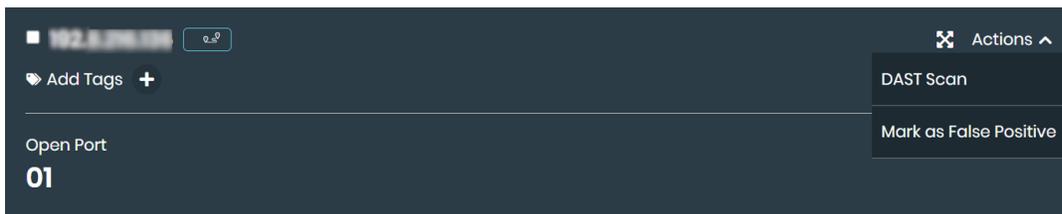


Performing a FortiDAST scan

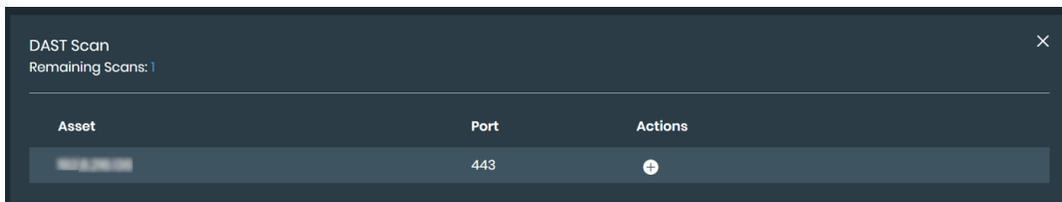
You can use FortiDAST to perform a vulnerability scan on your assets. By leveraging a FortiDAST integration with FortiRecon, you can identify vulnerabilities and security gaps within your assets. See the [FortiDAST User Guide](#) for more information on how the integration and scanning works.

To scan an asset with FortiDAST:

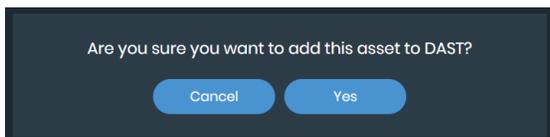
1. Add a FortiDAST integration to FortiRecon. See [Adding integrations on page 109](#).
2. Go to *Attack Surface Management > Asset Discovery*.
3. Navigate to the asset you want to scan.
4. Select *Actions > DAST Scan*.



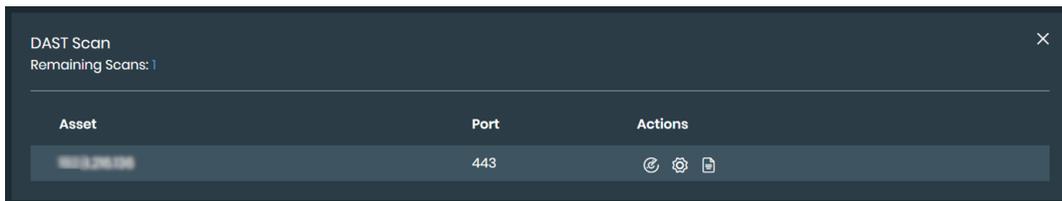
The *DAST Scan* dialog opens with number of *Remaining Scans* displayed.



5. Click *Add* beside the asset you want to add to DAST. A confirmation message is displayed.



6. Click *Yes*. The *Scan*, *Config Scan*, and *View Result* buttons become available for the asset.

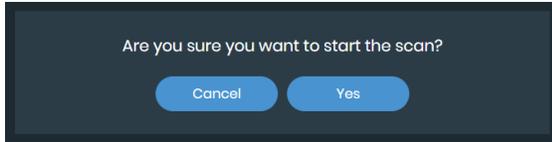


7. Click *Config Scan*. You will be redirected to FortiDAST.

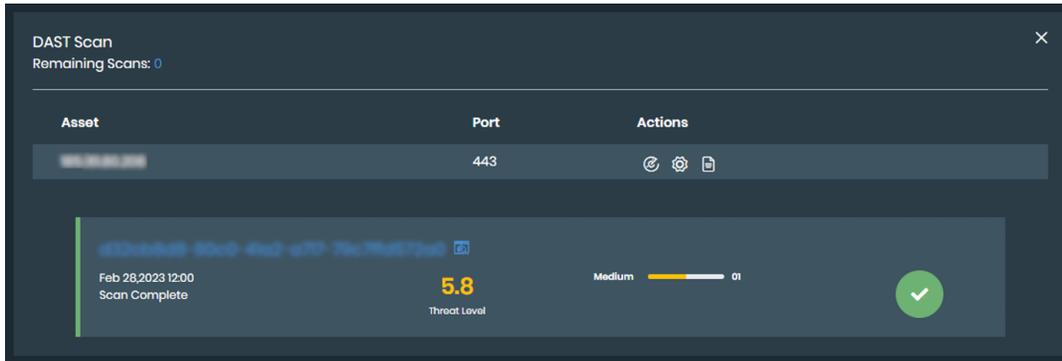


Only master or sub users will be redirected to FortiDAST to complete the configuration. Other users will be prompted with a dialog on how to proceed.

8. Configure the scanner. See the [FortiDAST User Guide](#) for more information.
9. Click *Scan*. A confirmation message is displayed.



10. Click **Yes**.
11. Once the scan has started, click *View Result* to view the status of the scan.



You can scan the same asset again by selecting *ReScan*.

DNS Health Report

FortiRecon's DNS Health Report feature is a powerful tool that provides a comprehensive analysis of your domain's DNS health. This feature offers detailed information on passed, info, warning, and error counts, allowing you to quickly identify and address any potential issues. The report includes sections dedicated to the *Parent Nameserver(s)*, *Authoritative Nameserver(s)*, and *SOA Records*, offering valuable insights into the overall health and adherence to DNS standards of your domain.

To view DNS health report:

1. Go to *Attack Surface Management > Asset Discovery > EASM > Domain*.
2. Navigate to the domain you want to view the report for.
3. Select *DNS Health Check*.

DNS Health Check Report : fortiguard.net

19 Passed

Authoritat. 11
Parent Nam. 2
SOA Record 6

03 Info

Authoritat. 1
Parent Nam. 1
SOA Record 1

00 Warning

01 Error

Authoritat. 1

Parent Nameserver(s)

Status	Test Name	Findings	Test Description
✓	Valid Domain	'fortiguard.net' is a valid domain.	Provided domain is a valid domain.
✓	Parent Nameserver(s)	Found 13 records (showing max 3) records: m.gtld-servers.net: 192.55.83.30 d.gtld-servers.net: 192.31.80.30 f.gtld-servers.net: 192.35.51.30	A Parent Nameserver refers to a DNS server responsible for providing information about the higher-level domain or the top-level domain in the DNS hierarchy. It helps the recursive resolver in the process of resolving a domain name by directing it to the authoritative nameservers for the respective domain.

Authoritative Nameserver(s)

Status	Test Name	Findings	Test Description
✓	Authoritative Nameserver(s)	Found 3 records (showing max 3) records: ns1.fortinet.com: 65.39.139.161 ns2.fortinet.com: 96.45.36.48 ns3.fortinet.com: 208.91.113.63	An authoritative name server is a name server that gives answers in response to questions asked about names in a zone. An authoritative-only name server returns answers only to queries about domain names that have been specifically configured by the administrator.

SOA Record

Status	Test Name	Findings	Test Description
✓	SOA Record	Found following SOA record: mname: ns1.fortinet.com. rname: mis.fortinet.com. serial: 2019121300 expire: 172800 refresh: 10800 retry: 900 minimum_ttl: 3600	The DNS 'Start of Authority' (SOA) record stores important information about a domain or zone such as the email address of the administrator, when the domain was last updated, and how long the server should wait between refreshes.

Exporting assets

You can export a list of assets into an Excel file. The spreadsheet will include the information on:

- Asset
- Open Ports
- Linked Assets
- Total Issues
- Country
- Tags
- Groups
- Discovery
- Last Refreshed On

To export discovered assets:

1. Go to *Attack Surface Management* > *Asset Discovery* > *EASM*.
2. Optionally, apply the required filters to export specific types of assets. See [Viewing asset details](#).
3. Click *Download* icon. The file is downloaded to your computer.

EASM Asset Management

The *Attack Surface Management > Asset Management* page allows you to create and manage asset tags and groups, and configure your IASM settings. From the *Asset Management* page, you can:

- Create and manage tags and rules. See [Tag Management](#).
- Create and manage groups. See [Group Management](#)
- Limit access to specific assets and security issues using groups and tags. See [Limiting access to assets and issues on page 82](#).



Tags and groups are integrated throughout the *Attack Surface Management* pages. You can filter by tags in the *Asset Discovery* and *Security Issues* pages; see [Viewing asset details on page 64](#). Groups can be filtered in all *Attack Surface Management* pages.

Tag Management

The *Tag Management* page allows you to create, modify, and manage tags and rules.

- Create a new asset tag. See [Creating a tag on page 73](#).
- Assign individual and bulk assets to an asset tag. See [Adding assets to a tag on page 74](#).
- Manage, edit, and delete asset tags. See [Managing tags on page 75](#).
- Create a new tagging rule. See [Creating a tagging rule](#).
- View, clone, edit and delete rules. See [Managing rules](#).

Creating a tag

Asset tags can be used to mark specific assets for focused filtering in the *Security Issues* and *Asset Discovery* pages. When creating a tag, a tag color is selected so that assets can be differentiated by tag. Tags must be configured in the *Tag Management > Tags* tab before assets can be assigned.



Some tags are automatically generated and cannot be edited or deleted.

To create a tag:

1. Go to *Attack Surface Management > Asset Management*.
2. Select *EASM* toggle.
3. Select the *Tag Management* tab.
4. Click **+Add** and select *Create Tags*. The *Create Tag* dialog is displayed.
5. Enter a *Tag Name*.
6. Enter a *Tag Description*.
7. Select the *Theme Color* icon to assign the tag color.
8. Click *Submit*. The new tag is added to the *Tag Management > Tags* tab.

Adding assets to a tag

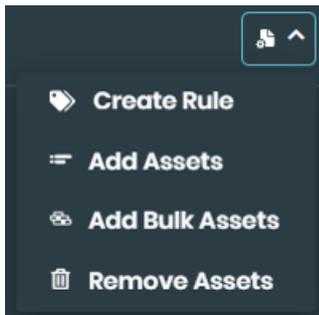
You can add individual or bulk assets to a tag from the *Tag Management > Tags* tab. You can also add assets to tags by creating tagging rules.



- Assets must be included in *Attack Surface Management > Asset Discovery* before they can be tagged. See [Adding assets manually on page 67](#).
- Tags can also be assigned to assets in *Attack Surface Management > Asset Discovery*. See [Assigning tags on page 68](#).

To create a tagging rule

1. Go to *Attack Surface Management > Asset Management*.
2. Select *EASM* toggle.
3. Select the *Tag Management > Tags* tab.
4. For a single tag, locate the tag you want to create tagging rule and click *Settings* icon. A dropdown menu is displayed. Click *Create Rule*.

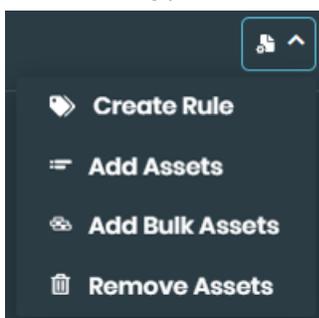


For multiple tags, select the tags you want to create tagging rule for and click *+Add > Create Rules*.

5. Enter the required information and click *Save*. See [Creating a tagging rule](#).

To add assets to a tag:

1. Go to *Attack Surface Management > Asset Management*.
2. Select *EASM* toggle.
3. Select the *Tag Management > Tags* tab.
4. Locate the tag you want to add assets to and click *Settings* icon. A dropdown menu is displayed.

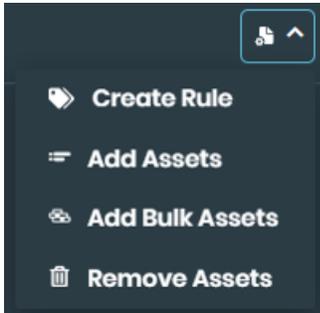


5. Select *Add Assets*.
6. Select the assets to add from the *Validated Assets list*.

7. Select *Propagate the tag to asset* to apply tags to the asset associations. Select the *i* icon for more information.
8. Click the right arrow. The selected assets will be moved into the tag field.
9. Click *Save*.

To add bulk assets to a tag:

1. Go to *Attack Surface Management > Asset Management*.
2. Select *EASM* toggle.
3. Select the *Tag Management > Tags* tab.
4. Locate the tag you want to add assets to and click *Settings* icon. A dropdown menu is displayed.



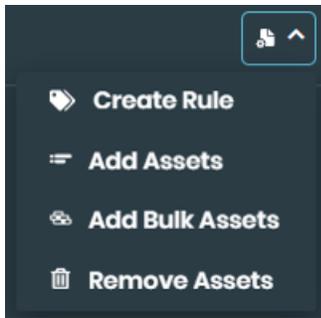
5. Select *Add Bulk Assets*.
6. Enter the asset information in the left field.
7. Select *Propagate the tag to asset* to apply tags to the asset associations. Select the *i* icon for more information.
8. Click *Save*. FortiRecon validates the assets. If any invalid assets are found, a list appears in the left field. Correct or remove the invalid values from the list to assign assets to the tag.

Managing tags

Asset tags can be managed from the *Tag Management > Tags* tab. You can remove assets from a tag, edit a tag, or delete a tag.

To remove an asset from a tag:

1. Go to *Attack Surface Management > Asset Management*.
2. Select *EASM* toggle.
3. Select the *Tag Management > Tags* tab.
4. Locate the tag you want to remove assets from and click *Settings* icon. A dropdown menu is displayed.



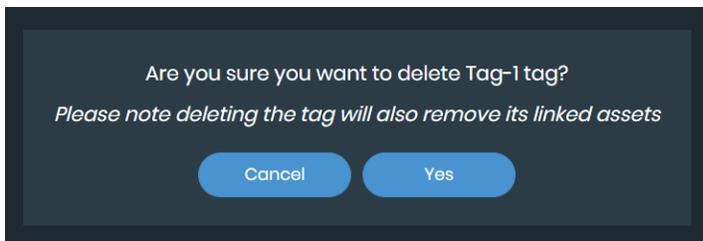
5. Select *Remove Assets*.
6. Select the assets you want to remove or click *Select All*.
7. Click *Remove Selected*.

To edit a tag:

1. Go to *Attack Surface Management > Asset Management*.
2. Select *EASM* toggle.
3. Select the *Tag Management > Tags* tab.
4. Locate the tag you want to edit and click the *Edit* icon.
5. Edit the fields.
6. Click *Submit*.

To delete a tag:

1. Go to *Attack Surface Management > Asset Management*.
2. Select *EASM* toggle.
3. Select the *Tag Management > Tags* tab.
4. Locate the tag you want to delete and click the *Delete* icon. A confirmation message is displayed.



5. Click *Yes*.

Creating a tagging rule

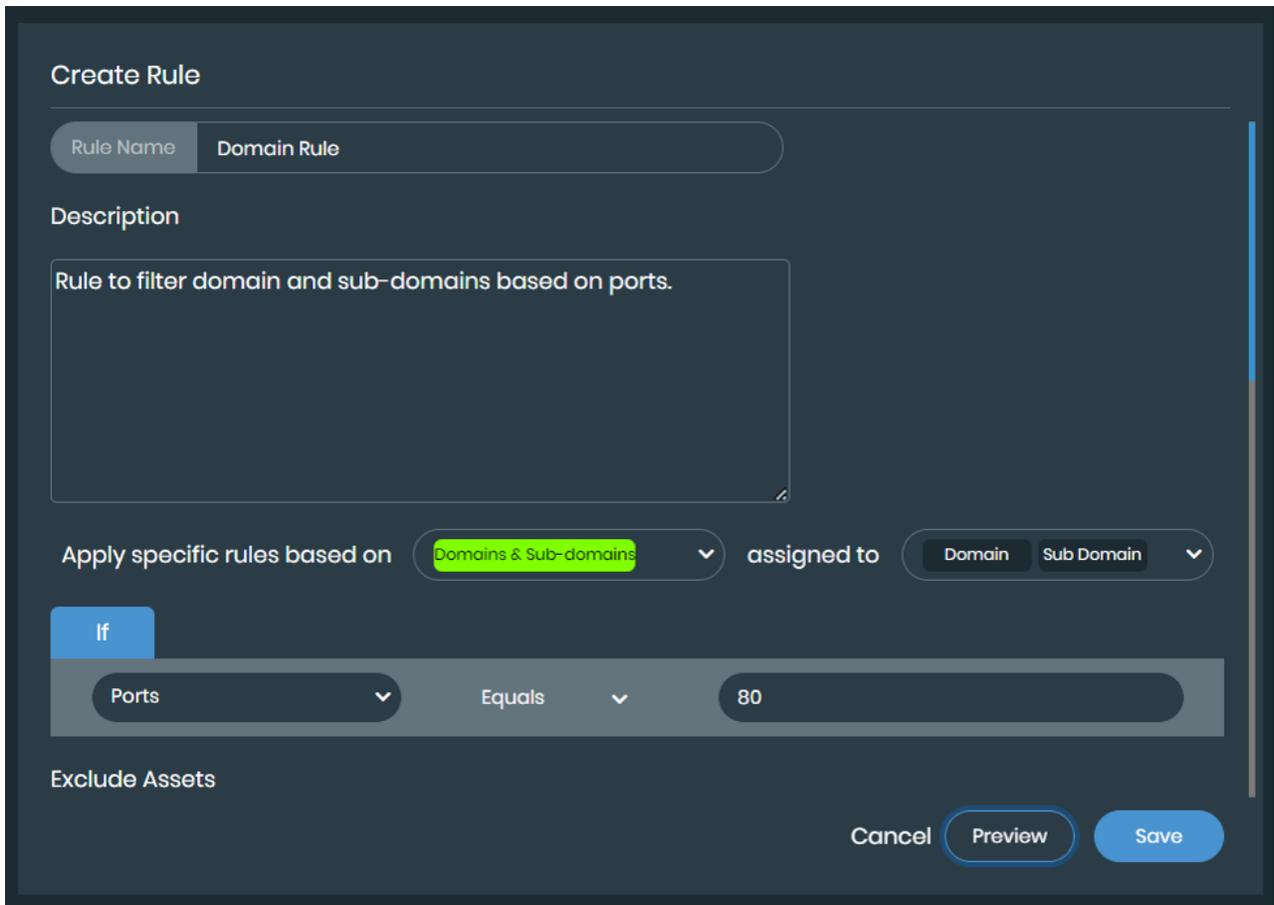
Rule-based tagging allows you to automatically assign tags to assets that meet user-defined conditions. This helps categorize and organize assets enhancing searchability and filtering.



Ensure tags exist before creating tagging rules. See [Creating a tag](#).

To create a tagging rule:

1. Go to *Attack Surface Management > Asset Management*.
2. Select *EASM* toggle.
3. Select the *Tag Management* tab.
4. Click **+Add** and select *Create Rules*. The *Create Rule* dialog is displayed.
5. Enter a *Rule Name*.
6. (Optional) Enter a *Description*.
7. Select *Tags* and *Asset type*.
8. Define your rule using [supported conditions](#).
9. (Optional) Specify the assets to exclude from the rule.
10. Click *Preview* to see a sample of assets the rule would affect displayed in the *Assets Tagged* section.
11. Click *Save*. The new rule is added to the *Tag Management > Rules* tab.



Create Rule

Rule Name: Domain Rule

Description: Rule to filter domain and sub-domains based on ports.

Apply specific rules based on: Domains & Sub-domains assigned to: Domain

If: Ports Equals 80

Exclude Assets

Cancel Preview Save



- For domains, the tag will be applied to the domain, its associated sub-domains, and its IP addresses.
- For IP prefixes, the tag will be applied to all IP addresses within the specified prefix.
- For ASNs, the tag will be applied to the ASN's associated IP prefixes and their corresponding IP addresses.

Supported asset types and conditions

The following table details the supported asset types and conditions for rule-based tagging.

Asset Type	Conditions
Domain	<ul style="list-style-type: none"> • Port (Equals) • Asset Name (Starts with, Ends with, Wildcard) • Technologies (Equals) • Services (Equals) • Parent Asset (Equals)
Sub-domain	<ul style="list-style-type: none"> • Port (Equals) • Asset Name (Starts with, Ends with, Wildcard) • Technologies (Equals) • Services (Equals) • Parent Asset (Equals)
IP Address	<ul style="list-style-type: none"> • Port (Equals) • Asset Name (Starts with, Ends with, Wildcard) • Services (Equals) • Parent Asset (Equals) • Countries (Equals) • IP Range (between) • Part of Prefix (Equals)
IP Prefix	<ul style="list-style-type: none"> • Asset Name (Starts with, Ends with, Wildcard) • Parent Asset (Equals)
ASN	<ul style="list-style-type: none"> • Asset Name (Starts with, Ends with, Wildcard) • Parent Asset (Equals)

Managing rules

Tagging rules can be managed from the *Tag Management > Rules* tab. You can view, clone, edit, or delete a rule.

To view a rule:

1. Go to *Attack Surface Management > Asset Management*.
2. Select *EASM* toggle.
3. Select the *Tag Management > Rules* tab.
4. Locate the rule you want to view. Click *View* icon in Actions column.

To clone a rule:

1. Go to *Attack Surface Management > Asset Management*.
2. Select *EASM* toggle.
3. Select the *Tag Management > Rules* tab.
4. Locate the rule you want to clone and click the *Clone* icon.
5. Enter a name and description.
6. Click *Submit*.

To edit a rule:

1. Go to *Attack Surface Management > Asset Management*.
2. Select *EASM* toggle.
3. Select the *Tag Management > Rules* tab.
4. Locate the rule you want to edit and click the *Edit* icon.
5. Enter
6. Click *Submit*.

To delete a rule:

1. Go to *Attack Surface Management > Asset Management*.
2. Select *EASM* toggle.
3. Select the *Tag Management > Rules* tab.
4. Locate the rule you want to delete and click the *Delete* icon. A confirmation message is displayed.
5. Click *Yes*.

Group Management

The *Group Management* page allows you to create, modify, and manage groups.

- Create a new asset group. See [Creating a group on page 79](#).
- Assign individual and bulk assets to an asset group. See [Adding assets to a group on page 80](#).
- Manage, edit, and delete asset groups. See [Managing groups on page 81](#).
- Filter *Attack Surface Management* pages by group. See [Filtering by group on page 82](#).

Creating a group

Asset groups can be used to consolidate related assets. Groups can be viewed in the *Dashboard*, *Asset Discovery*, and *Security Issues* pages. An asset group must be created in the *Group Management* tab before assets can be assigned.



Assets can also be grouped based on subsidiary hierarchy. This allows for separate reporting and delegation of remediation responsibilities.

To create a group:

1. Go to *Attack Surface Management > Asset Management*.
2. Select *EASM* toggle.
3. Select the *Group Management* tab.
4. Click *Create*. The *Create Group* dialog is displayed.
5. Enter a *Group Name*.
6. Enter a *Group Description*.
7. Click *Submit*. The new group is added to the *Group Management* tab.



Once a group has been created, you can assign assets to the group. See [Adding assets to a group on page 80](#).

Adding assets to a group

You can add individual or bulk assets to a group from the *Group Management* tab.



Assets must be included in *Asset Discovery* before they can be tagged. See [Adding assets manually on page 67](#).

To add assets to a group:

1. Go to *Attack Surface Management > Asset Management*.
2. Select *EASM* toggle.
3. Select the *Group Management* tab.
4. Locate the group you want to add assets to and click *Manage Assets* icon. A dropdown menu is displayed.
5. Select *Add Assets*.
6. Select the assets to add from the *Validated Assets list*.
7. Click the right arrow. The selected assets will be moved into the tag field.
8. Select *Propagate the tag to asset* to apply tags to the asset associations. Select the *i* icon for more information.
9. Click *Save*.

To add bulk assets to a group:

1. Go to *Attack Surface Management > Asset Management*.
2. Select *EASM* toggle.
3. Select the *Group Management* tab.
4. Locate the group you want to add assets to and click *Manage Assets* icon. A dropdown menu is displayed.
5. Select *Add Bulk Assets*.
6. Enter the asset information in the left field.
7. Select *Propagate the tag to asset* to apply tags to the asset associations. Select the *i* icon for more information.

8. Click **Save**. FortiRecon validates the assets. If any invalid assets are found, a list appears in the left field. Correct or remove the invalid values from the list to assign assets to the tag.

Managing groups

Asset tags can be managed from the *Group Management* tab. You can remove assets from a group, edit a group, or delete a group.

To remove an asset from a group:

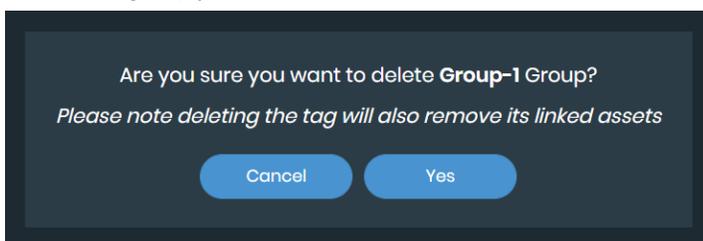
1. Go to *Attack Surface Management > Asset Management*.
2. Select *EASM* toggle.
3. Select the *Group Management* tab.
4. Locate the group you want to remove assets from and click *Manage Assets* icon. A dropdown menu is displayed.
5. Select *Remove Assets*.
6. Select the assets you want to remove or click *Select All*.
7. Click *Remove Selected*.

To edit a group:

1. Go to *Attack Surface Management > Asset Management*.
2. Select *EASM* toggle.
3. Select the *Group Management* tab.
4. Locate the group you want to edit and click the *Edit* icon.
5. Edit the fields.
6. Select *Assign Group To All Users* to make the assets visible to all users. See [Limiting access to assets and issues on page 82](#).
7. Click *Submit*.

To delete a group:

1. Go to *Attack Surface Management > Asset Management*.
2. Select *EASM* toggle.
3. Select the *Group Management* tab.
4. Locate the group you want to delete and click the *Delete* icon. A confirmation message is displayed.



5. Click **Yes**.

Filtering by group

Once a group has been created, you can filter by group in the *Attack Surface Management > Security Issues* and *Attack Surface Management > Asset Discovery* pages using the *Groups* dropdown menu. The Groups filter will be set to all assets of the organization by default.

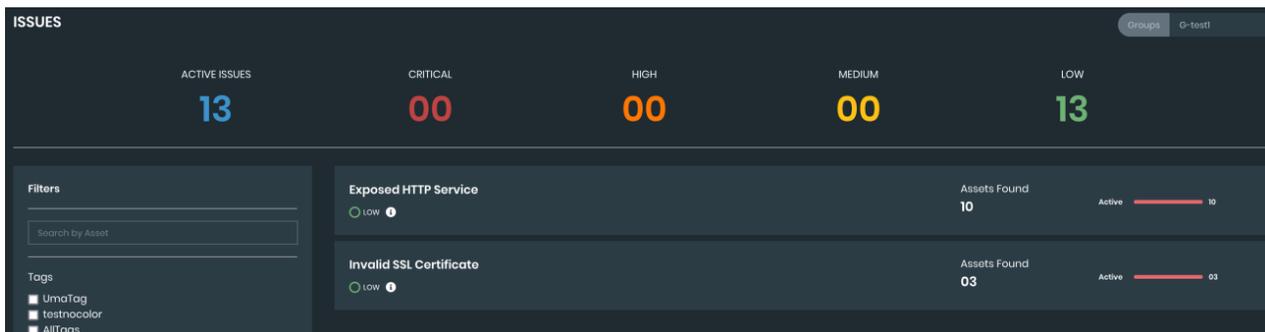
The following example demonstrates filtering by group in the *Attack Surface Management > Security Issues* page.

To filter by group:

1. Go to *Attack Surface Management > Security Issues*.
2. Select *EASM* toggle.
3. Click the *Groups* dropdown menu.



4. Select the group you want to filter by. The page will displayed information related to the selected group.



Limiting access to assets and issues

User access to specific assets and security issues can be limited through the use of groups and tags. User asset and security issue visibility is limited to the groups they are assigned to and any tags associated with these group assets.

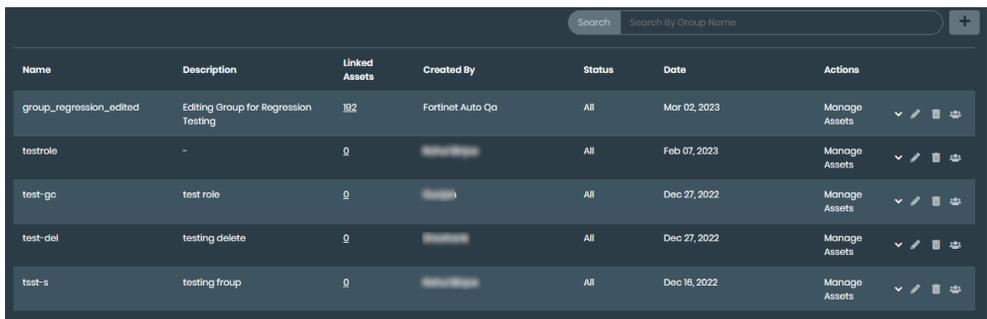
The following table presents examples of visible and hidden assets based on the groups that a user is assigned to:

User assigned to	Visible assets	Hidden assets
A single group with no tags assigned	<ul style="list-style-type: none"> All assets that have been added to the group 	<ul style="list-style-type: none"> Assets that have not been added to the group
A single group with tags assigned to the assets	<ul style="list-style-type: none"> Assets that have been added to the group that also have the tags assigned 	<ul style="list-style-type: none"> Assets that have not been added to the group Any assets included in the assigned group that do not have the tags assigned
Multiple groups with no tags assigned	<ul style="list-style-type: none"> All assets that have been added to any of the assigned groups 	<ul style="list-style-type: none"> Assets that have not been added to any of the groups

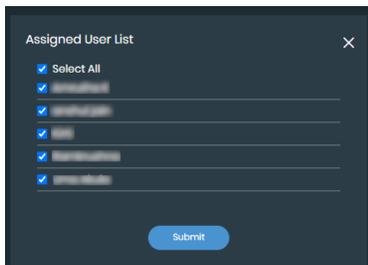
User assigned to	Visible assets	Hidden assets
Multiple groups with tags assigned to the assets	<ul style="list-style-type: none"> Assets that have been added to any of the assigned groups that also have the tags assigned 	<ul style="list-style-type: none"> Assets that have not been added to any of the groups Any assets included in the assigned groups that do not have the tags assigned

To assign users to a group:

1. Go to *Attack Surface Management > Asset Management*.
2. Select *EASM* toggle.
3. Select the *Group Management* tab.



4. Select *Assign User*. The *Assigned User List* dialog is displayed.



5. Select the users you want to assign:
 - Select specific users to assign to the group.
 - Select *Select All* to make the group assets and security issues visible to all users.
6. Click *Submit*.

IASM

Internal Attack Surface Management (IASM) provides comprehensive internal asset discovery, vulnerability assessment, and web application analysis for attack surface management.

IASM allows you to scan multiple subnets and deploy the *IASM Agent* across multiple sites to ensure complete visibility into your internal attack surface. *IASM Agent* is a Docker container deployed within your network, responsible for executing scans and relaying discovered data to the FortiRecon.

To get started with IASM, follow these steps:

1. Configure IASM settings in *Asset Management > IASM Configuration* and download the configuration file (.yaml). See [IASM Configuration](#).
2. Use the configuration file to deploy the IASM Agent on a device within your internal network. See [IASM Agent](#).
3. Access and analyze IASM scan results in the FortiRecon portal.
 - [IASM Dashboard](#)
 - [IASM Security Issues](#)
 - [IASM Asset Discovery](#)
 - [IASM Asset Management](#)

IASM Agent

The IASM Agent is deployed within your internal network to enhance your internal security posture. It performs the following tasks.

- *Asset discovery*: Scans your network to map and identify all connected devices.
- *Port scan*: Determines open ports on discovered assets, revealing potential points of access.
- *Service enumeration*: Identifies services and their versions running on open ports, providing insights for targeted vulnerability assessments.
- *Web application enumeration*: Sends tailored probes to identify the specific technologies (programming languages, frameworks) behind each discovered web application.
- *Vulnerability detection*: Performs non-intrusive scans to identify security misconfigurations and known vulnerabilities in discovered web applications. This includes checks for missing HTTP headers, misconfigured Cross-Origin Resource Sharing (CORS) policies, and SSL/TLS certificate issues.
- *WordPress CMS security*: Scans vulnerabilities commonly found in WordPress CMS.



FortiRecon currently scans TCP ports only.

The IASM agent transmits collected data to FortiRecon for centralized analysis and reporting. FortiRecon analyzes the data to identify vulnerabilities in discovered services and technologies. It then cross-references these vulnerabilities with the FortiRecon threat intelligence database to determine if they correspond to known, actively exploited attacks.

System Requirements

Following are the hardware and software requirements to deploy IASM Agent.

Hardware

Ensure your system meets the following hardware requirements for optimal IASM Agent performance.

Use Case	CPU Cores	RAM (GB)	Disk Space (GB)
Less Than 10 Subnets	4	8	75

Use Case	CPU Cores	RAM (GB)	Disk Space (GB)
More Than 10 Subnets	8	16	100

Software

The IASM Agent is only compatible with *Ubuntu 22.04*.

Prerequisites

Ensure that the following prerequisites are met for proper functioning of IASM Agent.

- The IASM Agent must be deployed on a virtual machine or physical server within your internal corporate network. This ensures the agent has proper network access to reach and scan the specified subnets.
- Ensure the machine hosting the IASM Agent has full network access to all subnets you intend to scan.
- Verify that the IASM system/VM has outbound internet access to <https://fortirecon.forticloud.com/iasm> on port 443. This connection is necessary for the agent to communicate with the FortiRecon.

Deploying IASM Agent

Perform the following steps to deploy IASM Agent.



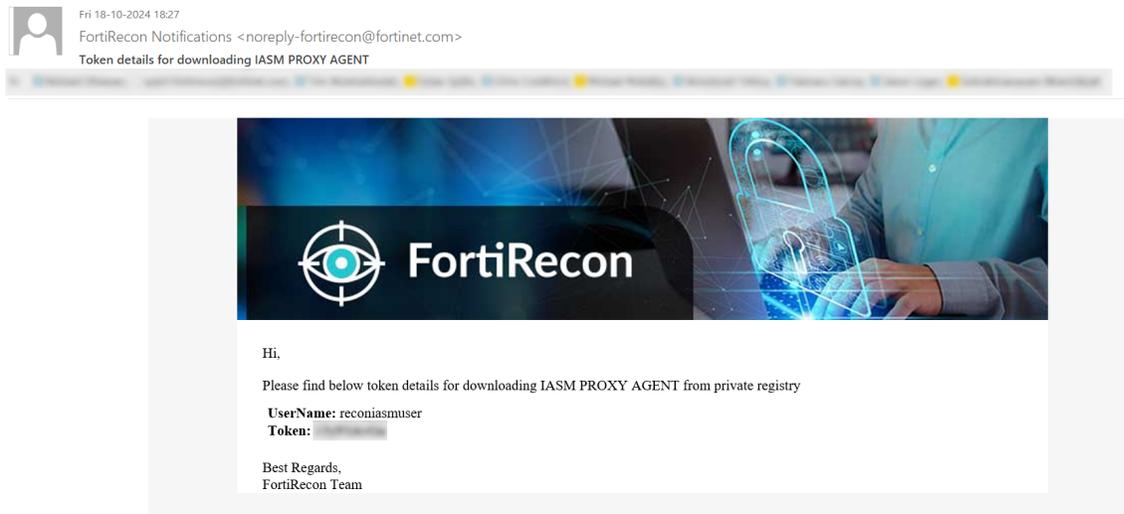
Ensure that [System Requirements](#) and [Prerequisites](#) are met before deploying IASM Agent.

1. Install *Ubuntu 22.04* on a physical server or virtual machine.
2. Install the latest version of Docker engine and the Docker compose.


```
sudo apt install docker.io
sudo apt install docker-compose
```
3. Configure IASM settings in *Asset Management > IASM Configuration* and download the configuration file (*iasmproxy.yml*). See [IASM Configuration](#).
4. Copy the configuration file to the Linux machine.
5. Using a terminal or command prompt on the machine with Docker installed, navigate to the directory containing the downloaded *iasmproxy.yml* file.
6. Log in to the Docker registry using the following command.


```
sudo docker login demo.fortirecon.forticloud.com
```

You will then need to enter the credentials that were shared with you through the email notification.



7. Execute the following command.

```
sudo docker-compose -f <iasmproxy.yml> up -d
```

The *Attack Surface Management > Asset Management > IASM Configuration* page displays the IASM Agent status. A green icon indicates the agent is communicating with FortiRecon, while a red icon initially appears, indicating the agent is not yet communicating. There will be a delay 30 seconds before the status of the agent changes from red to green.

IASM Dashboard

The *Attack Surface Management > Dashboard > IASM* page displays a number of widgets that summarize your discovered digital assets and potential security issues. From the *Attack Surface Management > Dashboard* page, you can:

- View a summary of your discovered digital assets. See [Viewing discovered assets summary](#).
- View a summary of potential security issues related to your organization. See [Viewing security issues summary](#).
- View a global map of your assets and the number of potential security issues affecting your organization. See [Viewing a map of assets](#).
- Download the dashboard content to your hard drive. See [Downloading the IASM dashboard details](#).

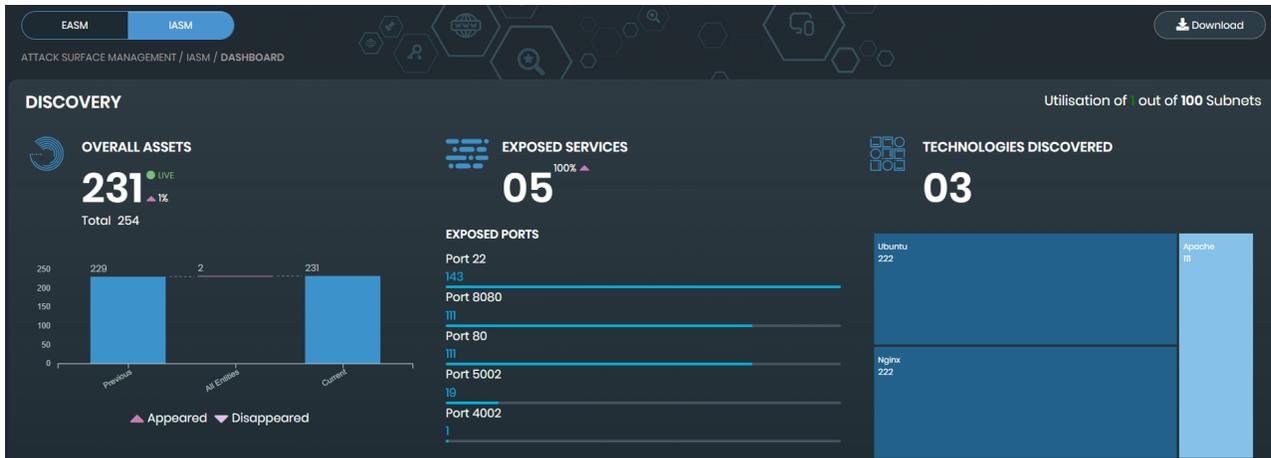
Viewing discovered assets summary

The *Attack Surface Management > Dashboard* page displays the following widgets that summarize your discovered digital assets in the *Discovery* section:

- Overall Assets
- Exposed Services
- Technologies Discovered

To view discovered assets summary:

1. Go to the *Attack Surface Management > Dashboard* page. Select *IASM* using the toggle. The list of assets discovered by FortiRecon IASM module is displayed in the *Discovery* section.



2. Use the following widgets to review your discovered assets:

Overall Assets	Displays the number of following entities discovered by FortiRecon: <ul style="list-style-type: none"> • <i>Previous</i>: results of the previous FortiRecon scan. • <i>All Entities</i>: number of organizations found by the latest scan. • <i>Current</i>: results of the current scan
Exposed Services	Displays all the exposed services discovered by FortiRecon, including exposed ports.
 <p>FortiRecon currently scans TCP ports only.</p>	
Technologies Discovered	Displays all the technologies discovered by FortiRecon.

3. Click the *Overall Assets* widget or the *Exposed Services* widget to display more details on the *Asset Discovery* page. See [IASM Asset Discovery](#).

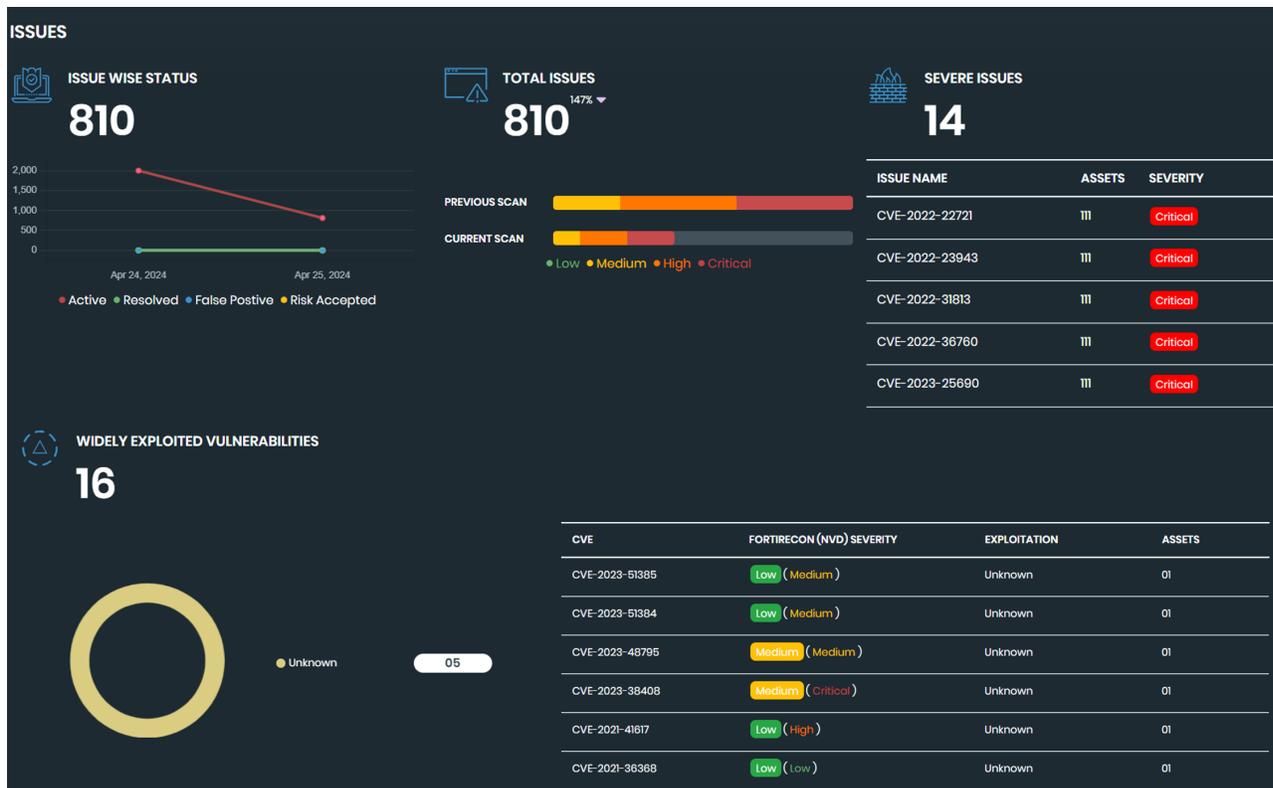
Viewing security issues summary

The *Attack Surface Management > Dashboard* page displays the following widgets that summarize potential security issues in the *Issues* section:

- Issue Wise Status
- Total Issues
- Severe Issues
- Widely Exploited Vulnerabilities

To view discovered assets summary:

1. Go to the *Attack Surface Management > Dashboard* page. Select IASM using toggle and scroll to the *Issues* section. The list of potential security issues is displayed.



2. Use the following widgets to review your security issues:

Issue Wise Status	Displays a graph visualizing the number of issues in each status over time.
Total Issues	Displays the total number of issues discovered by the latest scan compared to the results of the previous scan.
Severe Issues	Displays the number of severe issues, and then lists the name, affected assets, and severity rating of the issues.
Widely Exploited Vulnerabilities	Displays the number of widely exploited vulnerabilities discovered, and then lists the name, affected assets, and severity rating of the issues.

3. Click an issue or vulnerability to display more details on the *Security Issues* page. See [IASM Security Issues](#).

Viewing a map of assets

The *Attack Surface Management > Dashboard* page displays a global map of your digital assets in the *Asset Distribution* section. The color of the country aligns with the highest severity level of potential issues. If the country is blue, no issues are recorded.

To view a map of assets:

1. Go to the *Attack Surface Management > Dashboard* page. Select *IASM* using toggle and scroll to the *Asset Distribution* section. A global map of your discovered assets is displayed.



2. Use the table to view the number of assets and potential security issues in each country.

Column	Description
Country	Lists countries where your digital assets were discovered.
Assets	Displays the number of assets discovered in each country.
Issues	<p>Displays the number of potential security issues and indicates the severity rating of the issues by color:</p> <ul style="list-style-type: none"> Red indicates critical. Orange indicates high. Yellow indicates medium. Green indicates low. <p>The colors on the map align with the severity level of the issues.</p>

3. Click a country or issue in the table to display more details on the *Security Issues* page. See [IASM Security Issues](#).

Downloading the IASM dashboard details

The Attack Surface Management dashboard details can be downloaded to your hard drive. The process downloads a zip file that contains the following items:

- List of discovered assets in Microsoft Excel format
- List of issues in Microsoft Excel format
- An attack surface summary dashboard in PDF

To download the EASM dashboard:

1. Go to *Attack Surface Management > Dashboard*.
2. Choose *IASM* using toggle.
3. Click *Download*.
4. Retrieve the download from *Profile Settings*. See [Retrieving downloads on page 215](#).

IASM Security Issues

The *Attack Surface Management > Security Issues > IASM* page provides a summary of all potential security issues and details about each issue. From the *Security Issues* page, you can:

- View a summary about and details of all potential security issues related to your assets. See [Viewing security issues](#).

- Apply filters to the list of security issues to hone in on specific issues. See [Filtering security issues](#).
- Change the status of security issues to reflect changes made at your organization to address the issues. See [Changing the status of security issues](#).
- Add a comment to explain status changes made to security issues. See [Adding a comment to a security issue](#).
- Export security issues to an Excel file. See [Exporting security issues](#).

Viewing security issues

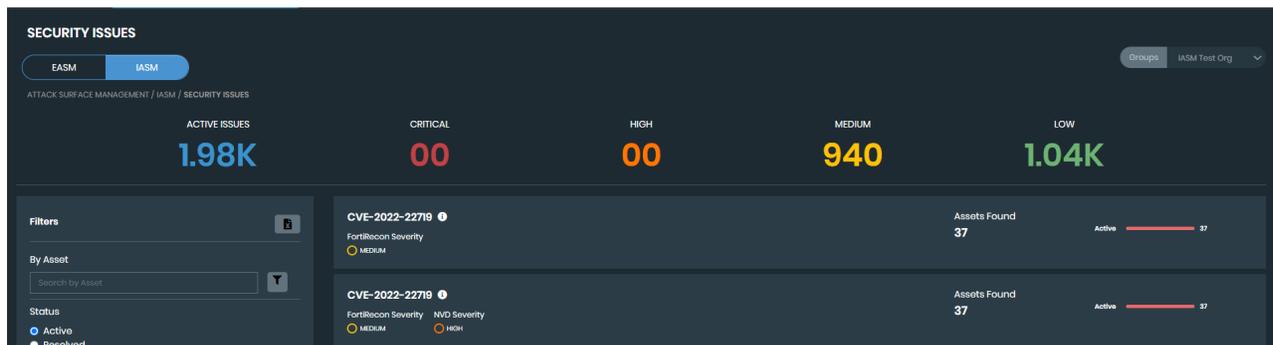
The *Attack Surface Management > Security Issues* page displays the number of active security issues and how many of the active security issues are rated critical, high, medium, and low. Color indicates the severity of a security issue:

Critical	Security issues rated <i>Critical</i> are red.
High	Security issues rated <i>High</i> are orange.
Medium	Security issues rated <i>Medium</i> are yellow.
Low	Security issues rated <i>Low</i> are green.

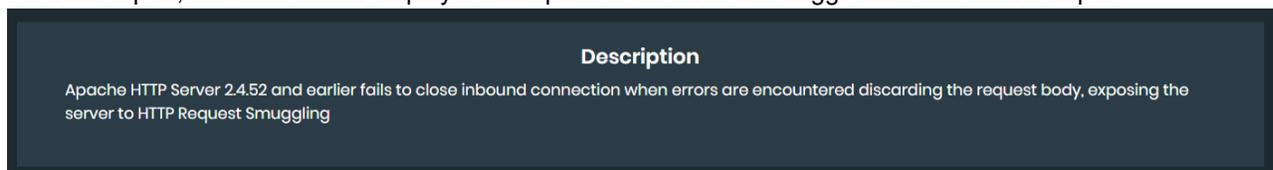
You can use search and filters to change the list of reports that are displayed, and then click each report to display its details.

To view security issues:

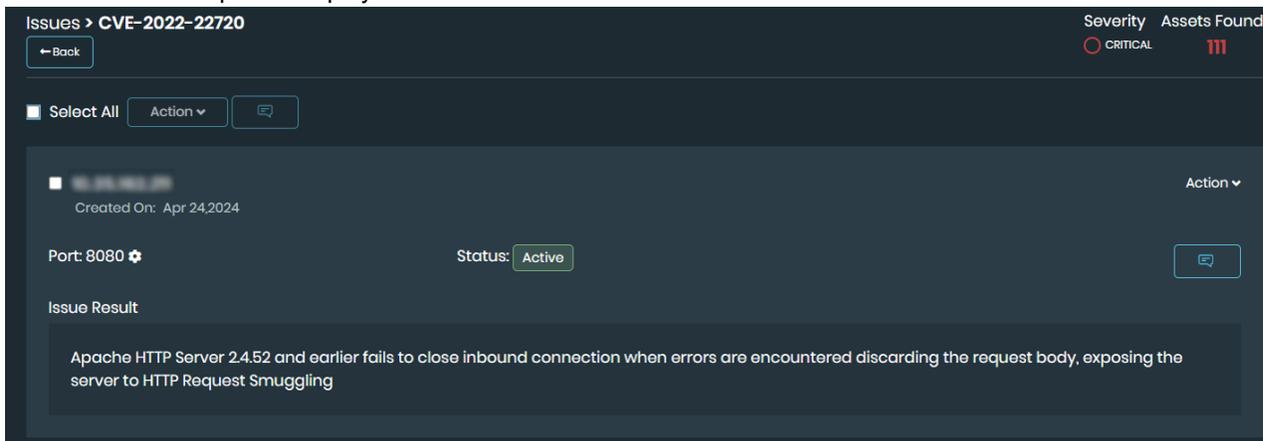
1. Go to *Attack Surface Management > Security Issues*. Choose *IASM* using toggle, the respective security issues are displayed. The *Issues* bar across the top displays the number of active security issues and the number of active security issues that are rated critical, high, medium, and low security risk. For each report, the number of affected assets is also displayed.



2. In the *Issues* section, click the number under *Critical*, *High*, *Medium*, or *Low*. The corresponding filter is selected and only those reports are displayed.
3. For identified CVEs, a brief description is displayed.
4. For each report, click the *i* icon to display a description of the issue and suggested remediation steps.



5. Click the title of a report to display details about affected assets.



6. Click gear icon next to Port to view *Service Discovery* information.

7. Click the *Back* button.

Filtering security issues

By default, the *Attack Surface Management > Asset Discovery* page displays all potential security issues, starting with critical security issues. You can use filters to display specific types of issues.

To filter security issues:

1. Go to *Attack Surface Management > Security Issues*. Choose *IASM* using toggle, the respective security issues are displayed.
2. Filter by Asset. You can search for specific security issues using the *By Asset* field. Enter IP address information, such as 192.168.10.10 or 192.168.12.0/24.
3. Add advanced search features:
 - a. Click the filter icon. The advanced search fields are displayed.
 - b. Select the *Search Type*.
 - c. Click *Search*.
4. Select one or more filters:

Filter	Options
Status	Select one of the following statuses: <ul style="list-style-type: none"> • <i>Active</i> • <i>Resolved</i> • <i>Risk accepted</i> • <i>False positive</i>
Severity	Select one or more of the following severity statuses: <ul style="list-style-type: none"> • <i>Critical</i> • <i>High</i> • <i>Medium</i> • <i>Low</i>

Filter	Options
Category	Select one or more of the categories. The list of categories changes based on the displayed security issues. <ul style="list-style-type: none"> • <i>CORS Misconfiguration</i> • <i>Security HTTP Headers</i> • <i>Information Disclosure</i> • <i>Suspicious Domains</i> • <i>Web Filter Rating Lookup</i> • <i>SSL Tests</i> • <i>Weak Cipher</i> • <i>Vulnerable Web Technologies</i> • <i>Vulnerable Network Services</i> • <i>CMS Security</i>
Country	Select one or more countries.

The list of filtered security issues is displayed.

- (Optional) In the *Filters* list, toggle on *False Positive*. The list displays only issues marked with a status of *False Positive*.
- In the *Filters* list, click *Clear* to remove all filters.

Changing the status of security issues

As you review and address security issues reported by FortiRecon, you can change the status of each issue to reflect your understanding and actions:

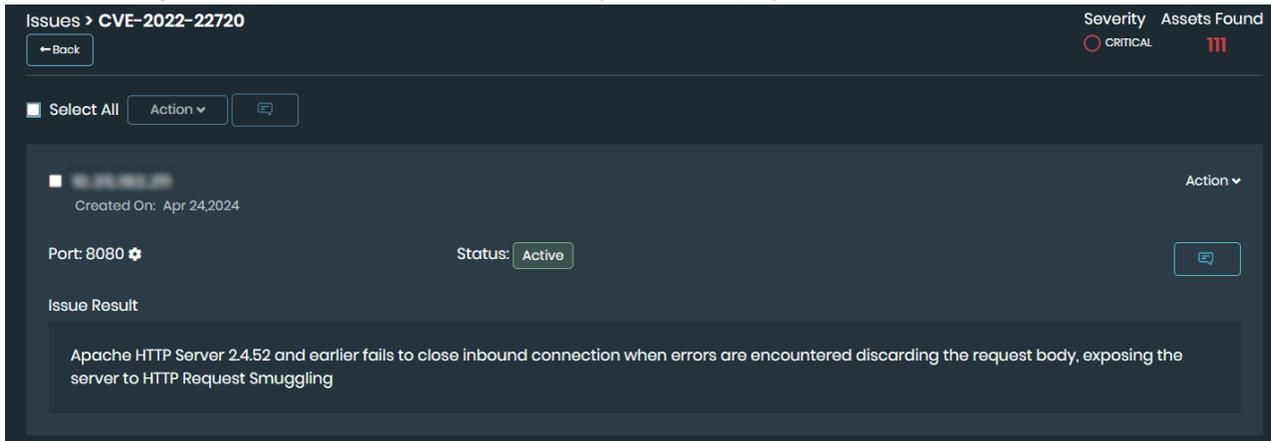
Mark as Active	Available only after you change the status of a security issue from active to another status. Select to move an issue back to the active status.
Mark as Resolved	Select to indicate actions taken at your organization have resolved the security issue.
Risk Accepted	Select to indicate actions taken at your organization have not fully resolved the security issue, but the current level of risk is acceptable.
False Positive	Select to indicate that the security issue is not an issue for your organization. The issue is considered a <i>False Positive</i> issue.

To change the status of security issues:

- Go to *Attack Surface Management > Security Issues*. The discovered assets are displayed.
- If necessary, select one or more filters.
The list of filtered security issues is displayed.

3. Click an issue title to display its details.

In the following example, the *CVE-2022-22720* security issue is displayed:



4. Click *Edit* in the top-right corner to change the status by selecting one of the following options:
 - Mark as Resolved
 - Risk Accepted
 - False Positive
5. Click *Back* to display the list of issues again.

Adding a comment to a security issue

When editing a security issue on *Attack Surface Management > Security Issues*, you can leave a comment to describe the changes and why they were made.



Selecting the comment button will open all comments for that issue. This allows you to review all changes and discussions related to the issue.

To add a comment to a security issue:

1. Go to *Attack Surface Management > Security Issues*.
2. Select a type of security issue.
3. Locate the issue you would like to make a change to.
4. Click the comment button. A list of previous comments and a text box is displayed.
5. Enter a comment related to the status change.
6. Click *Add*.

Exporting security issues

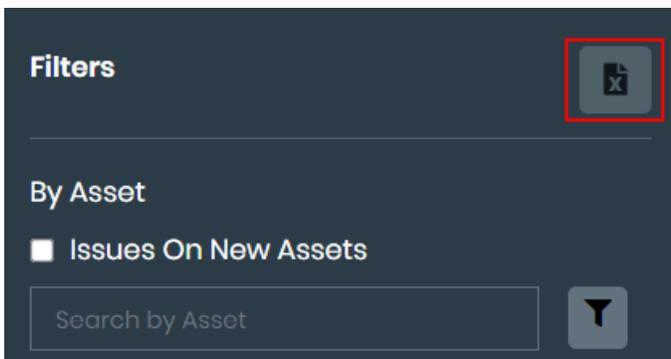
You can export a list of security issues into an Excel file. The spreadsheet will include the information on:

- Issue Category
- Issue Name
- Severity

- Asset
- Port
- Issue Status
- Tags
- Groups
- Last Refreshed On
- Additional Details
- Recommendations

To export the security issues:

1. Go to *Attack Surface Management > Security Issues*. Select *IASM* using the toggle.
2. Optionally, apply filters to export specific security issues. See [Filtering security issues](#).
3. Click *Download* icon. The file is downloaded to your computer.



IASM Asset Discovery

The *Attack Surface Management > Asset Discovery > IASM* page provides a summary of all discovered assets and details about each asset. From the *Asset Discovery* page, you can:

- View a summary about and details of your assets. See [Viewing asset details](#).
- Assign tags to assets for focused filtering. See [Assigning tags](#).

Viewing asset details

The *Attack Surface Management > Asset Discovery > IASM* page displays the number of assets in an *Overview* section and in an *Assets Discovered* list.

You can view details about an asset by clicking a number in the *Overview* section or a category in the *Assets Discovered* list.

To view asset details:

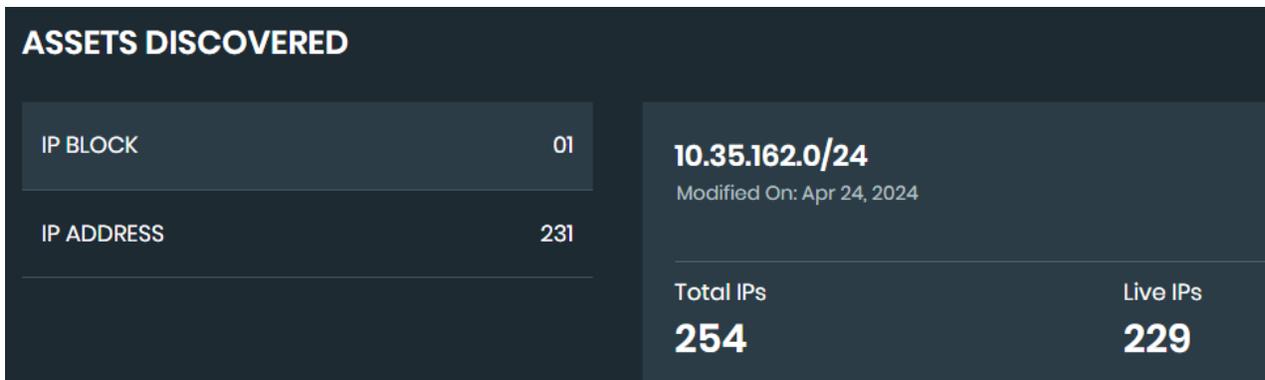
1. Go to *Attack Surface Management > Asset Discovery*.
2. Choose *IASM* using toggle. The number of discovered assets display in an *Overview* section across the top and in an *Assets Discovered* list on the left side of the page.



3. The following information is available:

Total Assets	The number of total assets discovered.
IP blocks	The number of IP blocks discovered.
IP address	The number of IP addresses that are linked to the IP blocks.

4. In the *Overview* bar, click a number, or in the *Assets Discovered* list, click an asset category. Details about the selected item are displayed on the right side of the page. For example, click *IP Block*. On the right side of the page, the IP blocks discovered are displayed.

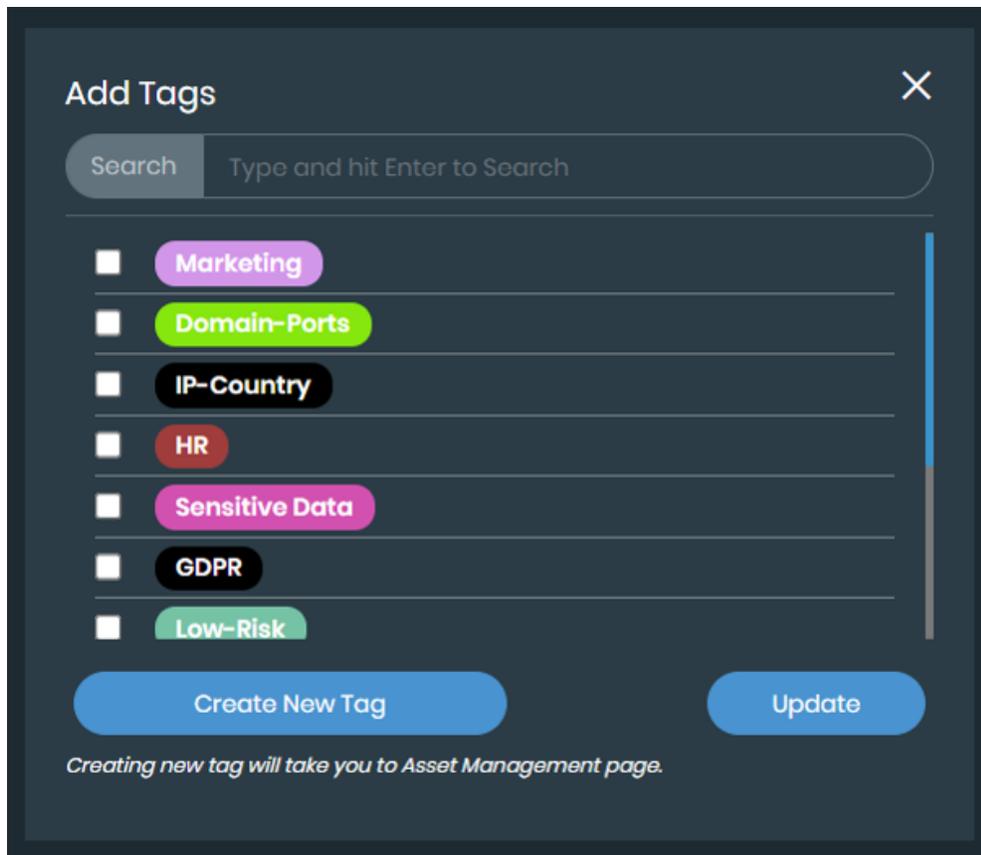


Assigning tags

Tags can be assigned to assets for focused filtering in the *Asset Discovery > IASM* page. For more information on tags, see [IASM Asset Management](#).

To assign a tag to an asset:

1. Go to *Attack Surface Management > Asset Discovery*.
2. Select *IASM* toggle.
3. Find the asset you want to tag and click the + icon. The *Add Tags* dialog is displayed.



To create a new tag, click *Create* in the *Add Tags* dialog or go to *Attack Surface Management > Asset Management* page. See [Adding assets to a tag](#).

4. Select the tags you would like to assign.
5. Click *Add*.

IASM Asset Management

The *Attack Surface Management > Asset Management > IASM* page allows you to create and manage asset tags and groups, and configure your IASM settings. From the *Asset Management* page, you can:

- Create and manage tags. See [Tag Management](#).
- Create and manage groups. See [Group Management](#)
- Limit access to specific assets and security issues using groups and tags. See [Limiting access to assets and issues](#).
- Configure IASM settings. See [IASM Configuration](#).



Tags and groups are integrated throughout the *Attack Surface Management* pages. You can filter by tags in the *Asset Discovery* and *Security Issues* pages; see [Viewing asset details](#). Groups can be filtered in all *Attack Surface Management* pages.

Tag Management

The *Tag Management* page allows you to create, modify, and manage tags and rules.

- Create a new asset tag. See [Creating a tag on page 73](#).
- Assign individual and bulk assets to an asset tag. See [Adding assets to a tag](#).
- Manage, edit, and delete asset tags. See [Managing tags](#).

Creating a tag

Asset tags can be used to mark specific assets for focused filtering in the *Security Issues* and *Asset Discovery* pages. When creating a tag, a tag color is selected so that assets can be differentiated by tag. Tags must be configured in the *Tag Management > Tags* tab before assets can be assigned.



Some tags are automatically generated and cannot be edited or deleted.

To create a tag:

1. Go to *Attack Surface Management > Asset Management*.
2. Select *IASM* toggle.
3. Select the *Tag Management* tab.
4. Click **+Add** and select *Create Tags*. The *Create Tag* dialog is displayed.
5. Enter a *Tag Name*.
6. Enter a *Tag Description*.
7. Select the *Theme Color* icon to assign the tag color.
8. Click *Submit*. The new tag is added to the *Tag Management > Tags* tab.

Adding assets to a tag

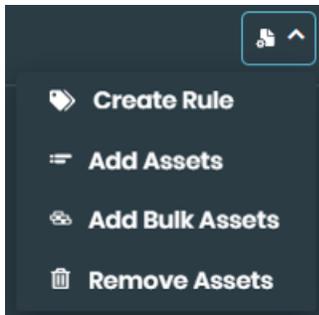
You can add individual or bulk assets to a tag from the *Tag Management* tab. You can also add assets to tags by creating tagging rules.



- Assets must be included in *Attack Surface Management > Asset Discovery* before they can be tagged.
 - Tags can also be assigned to assets in *Attack Surface Management > Asset Discovery*. See [Assigning tags](#).
-

To add assets to a tag:

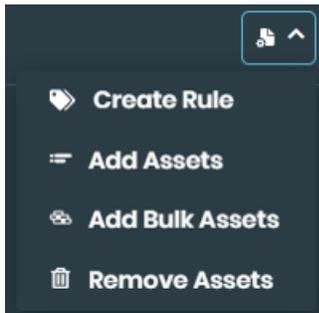
1. Go to *Attack Surface Management > Asset Management*.
2. Select *IASM* toggle.
3. Select the *Tag Management* tab.
4. Locate the tag you want to add assets to and click *Settings* icon. A dropdown menu is displayed.



5. Select *Add Assets*.
6. Select the assets to add from the *Validated Assets list*.
7. Select *Propagate the tag to asset* to apply tags to the asset associations. Select the *i* icon for more information.
8. Click the right arrow. The selected assets will be moved into the tag field.
9. Click *Save*.

To add bulk assets to a tag:

1. Go to *Attack Surface Management > Asset Management*.
2. Select *IASM* toggle.
3. Select the *Tag Management* tab.
4. Locate the tag you want to add assets to and click *Settings* icon. A dropdown menu is displayed.



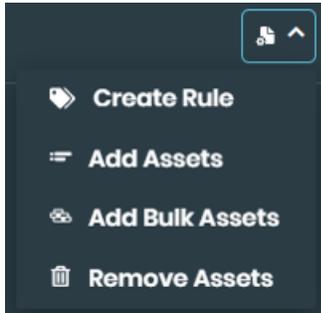
5. Select *Add Bulk Assets*.
6. Enter the asset information in the left field.
7. Select *Propagate the tag to asset* to apply tags to the asset associations. Select the *i* icon for more information.
8. Click *Save*. FortiRecon validates the assets. If any invalid assets are found, a list appears in the left field. Correct or remove the invalid values from the list to assign assets to the tag.

Managing tags

Asset tags can be managed from the *Tag Management > Tags* tab. You can remove assets from a tag, edit a tag, or delete a tag.

To remove an asset from a tag:

1. Go to *Attack Surface Management > Asset Management*.
2. Select *IASM* toggle.
3. Select the *Tag Management* tab.
4. Locate the tag you want to remove assets from and click *Settings* icon. A dropdown menu is displayed.



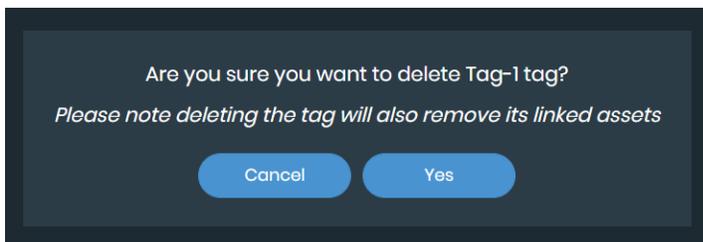
5. Select *Remove Assets*.
6. Select the assets you want to remove or click *Select All*.
7. Click *Remove Selected*.

To edit a tag:

1. Go to *Attack Surface Management > Asset Management*.
2. Select *IASM* toggle.
3. Select the *Tag Management* tab.
4. Locate the tag you want to edit and click the *Edit* icon.
5. Edit the fields.
6. Click *Submit*.

To delete a tag:

1. Go to *Attack Surface Management > Asset Management*.
2. Select *IASM* toggle.
3. Select the *Tag Management* tab.
4. Locate the tag you want to delete and click the *Delete* icon. A confirmation message is displayed.



5. Click *Yes*.

Group Management

The *Group Management* page allows you to create, modify, and manage groups.

- Create a new asset group. See [Creating a group](#).
- Assign individual and bulk assets to an asset group. See [Adding assets to a group](#).
- Manage, edit, and delete asset groups. See [Managing groups](#).
- Filter *Attack Surface Management* pages by group. See [Filtering by group](#).

Creating a group

Asset groups can be used to consolidate related assets. Groups can be viewed in the *Dashboard*, *Asset Discovery*, and *Security Issues* pages. An asset group must be created in the *Group Management* tab before assets can be assigned.



Assets can also be grouped based on subsidiary hierarchy. This allows for separate reporting and delegation of remediation responsibilities.

To create a group:

1. Go to *Attack Surface Management* > *Asset Management*.
 2. Select *IASM* toggle.
 3. Select the *Group Management* tab.
 4. Click *Create*. The *Create Group* dialog is displayed.
 5. Enter a *Group Name*.
 6. Enter a *Group Description*.
 7. Click *Submit*. The new group is added to the *Group Management* tab.
-



Once a group has been created, you can assign assets to the group. See [Adding assets to a group](#).

Adding assets to a group

You can add individual or bulk assets to a group from the *Group Management* tab.



Assets must be included in *Asset Discovery* before they can be tagged.

To add assets to a group:

1. Go to *Attack Surface Management* > *Asset Management*.
2. Select *IASM* toggle.
3. Select the *Group Management* tab.
4. Locate the group you want to add assets to and click *Manage Assets* icon. A dropdown menu is displayed.
5. Select *Add Assets*.
6. Select the assets to add from the *Validated Assets list*.
7. Click the right arrow. The selected assets will be moved into the tag field.

8. Select *Propagate the tag to asset* to apply tags to the asset associations. Select the *i* icon for more information.
9. Click *Save*.

To add bulk assets to a group:

1. Go to *Attack Surface Management > Asset Management*.
2. Select *IASM* toggle.
3. Select the *Group Management* tab.
4. Locate the group you want to add assets to and click *Manage Assets* icon. A dropdown menu is displayed.
5. Select *Add Bulk Assets*.
6. Enter the asset information in the left field.
7. Select *Propagate the tag to asset* to apply tags to the asset associations. Select the *i* icon for more information.
8. Click *Save*. FortiRecon validates the assets. If any invalid assets are found, a list appears in the left field. Correct or remove the invalid values from the list to assign assets to the tag.

Managing groups

Asset tags can be managed from the *Group Management* tab. You can remove assets from a group, edit a group, or delete a group.

To remove an asset from a group:

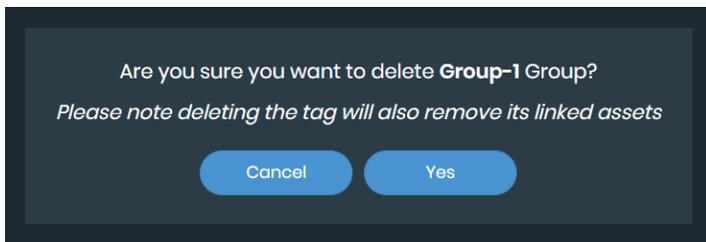
1. Go to *Attack Surface Management > Asset Management*.
2. Select *IASM* toggle.
3. Select the *Group Management* tab.
4. Locate the group you want to remove assets from and click *Manage Assets* icon. A dropdown menu is displayed.
5. Select *Remove Assets*.
6. Select the assets you want to remove or click *Select All*.
7. Click *Remove Selected*.

To edit a group:

1. Go to *Attack Surface Management > Asset Management*.
2. Select *IASM* toggle.
3. Select the *Group Management* tab.
4. Locate the group you want to edit and click the *Edit* icon.
5. Edit the fields.
6. Select *Assign Group To All Users* to make the assets visible to all users. See [Limiting access to assets and issues](#).
7. Click *Submit*.

To delete a group:

1. Go to *Attack Surface Management > Asset Management*.
2. Select *IASM* toggle.
3. Select the *Group Management* tab.
4. Locate the group you want to delete and click the *Delete* icon. A confirmation message is displayed.



5. Click Yes.

Filtering by group

Once a group has been created, you can filter by group in the *Attack Surface Management > Security Issues* and *Attack Surface Management > Asset Discovery* pages using the *Groups* dropdown menu. The Groups filter will be set to all assets of the organization by default.

The following example demonstrates filtering by group in the *Attack Surface Management > Security Issues* page.

To filter by group:

1. Go to *Attack Surface Management > Security Issues*.
2. Select *IASM* toggle.
3. Click the *Groups* dropdown menu.



4. Select the group you want to filter by. The page will displayed information related to the selected group.

Limiting access to assets and issues

User access to specific assets and security issues can be limited through the use of groups and tags. User asset and security issue visibility is limited to the groups they are assigned to and any tags associated with these group assets.

The following table presents examples of visible and hidden assets based on the groups that a user is assigned to:

User assigned to	Visible assets	Hidden assets
A single group with no tags assigned	<ul style="list-style-type: none"> All assets that have been added to the group 	<ul style="list-style-type: none"> Assets that have not been added to the group
A single group with tags assigned to the assets	<ul style="list-style-type: none"> Assets that have been added to the group that also have the tags assigned 	<ul style="list-style-type: none"> Assets that have not been added to the group Any assets included in the assigned group that do not have the tags assigned
Multiple groups with no tags assigned	<ul style="list-style-type: none"> All assets that have been added to any of the assigned groups 	<ul style="list-style-type: none"> Assets that have not been added to any of the groups
Multiple groups with tags assigned to the assets	<ul style="list-style-type: none"> Assets that have been added to any of the assigned groups that 	<ul style="list-style-type: none"> Assets that have not been added to any of the groups

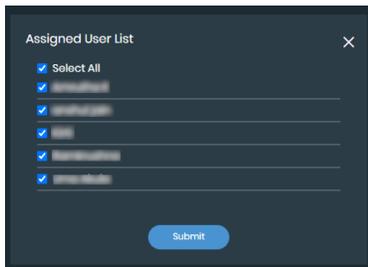
User assigned to	Visible assets	Hidden assets
	also have the tags assigned	<ul style="list-style-type: none"> Any assets included in the assigned groups that do not have the tags assigned

To assign users to a group:

1. Go to *Attack Surface Management > Asset Management*.
2. Select *IASM* toggle.
3. Select the *Group Management* tab.

Name	Description	Linked Assets	Created By	Status	Date	Actions
group_regression_edited	Editing Group for Regression Testing	192	Fortinet Auto Qa	All	Mar 02, 2023	Manage Assets
testrole	-	0		All	Feb 07, 2023	Manage Assets
test-gc	test role	0		All	Dec 27, 2022	Manage Assets
test-dcl	testing delete	0		All	Dec 27, 2022	Manage Assets
test-s	testing froup	0		All	Dec 16, 2022	Manage Assets

4. Select *Assign User*. The *Assigned User List* dialog is displayed.



5. Select the users you want to assign:
 - Select specific users to assign to the group.
 - Select *Select All* to make the group assets and security issues visible to all users.
6. Click *Submit*.

IASM Configuration

The *Asset Management > IASM > IASM Configuration* page allows you to configure and manage your IASM scan settings. You can create new scan configurations, monitor the status of IASM Agent, and download the necessary configuration files for agent deployment.

Name	Subnet/IP Range	Integration	Next Schedule Date	Scan Status	Actions
Config1	10.36.239.1/24	FGT01		Completed	
Config2	10.36.234.1/24	Fgt-+1		Initiated	

The following information is displayed for existing IASM configurations.

- *IASM Agent Status*: A green indicator signifies a connected IASM agent; red indicates a disconnected agent.
 - *Name*: The identifying name assigned to the configuration.
 - *Subnet/IP Range*: The subnet(s) specified in the scan configuration.
-



You can configure up to 100 subnets per IASM agent.

- *Next Scheduled Date*: The date and time (in UTC) of the next scheduled scan.
- *Scan Status*: Shows the current status of the scan (Initiated, Scanning, Failed, Completed).
- *Actions*: Options to edit the configuration or download the associated .yaml file.

To add a new configuration:

1. Navigate *Attack Surface Management > Asset Management*.
2. Select *IASM* toggle.
3. Select *IASM Configuration* tab.
4. Click *+Add*.
5. Provide a name and description.
6. Click *+Add* under the subnets section and enter the following information.
 - a. *Location*: Select the country from the dropdown.
 - b. *Subnets*: Enter the subnet in CIDR notation or specify an IP range.
 - c. Click *Save*.
7. Schedule your scans to run weekly or fortnightly, select the desired days of the week, and specify the start time in UTC.
8. (Optional) Select FortiGate integration. You can integrate FortiGate with IASM to discover the attack surface of the devices managed by FortiGate.
9. (Optional) In *Exclude Assets* section, enter IP addresses of any assets to be excluded from the scan.
10. Review the details and click *Next*.
11. Click *Download* to download the configuration file (.yaml) or *Copy* to copy the file. The downloaded .yaml file is required to deploy the IASM agent within your internal network. See [IASM Agent](#).

- Click Save.

The screenshot displays the 'IASM Configuration' interface. At the top right, it indicates '4 Subnets Available'. A progress bar shows two steps: '1 Configuration' (active) and '2 Download'. The configuration form includes a 'Name' field with the value 'test', a 'Description' text area with the placeholder 'Configuration Description', and a 'Subnet' section with an '+ Add' button. Below this is a table with columns 'Location' and 'Subnet/IP', containing one entry: 'India' with '10.36.239.112/24' and an edit icon. The 'Scan Schedule (UTC)' section has three dropdown menus set to 'Fortnightly', 'Monday', and '02:00'. The 'Integration' section has a dropdown menu set to 'FortiGate Integrations'. The 'Exclude Assets' section has a text area with the placeholder 'Subnets Ex: 10.30.230.12 \n 10.30.230.13'.

Location	Subnet/IP
India	10.36.239.112/24

To edit an existing configuration:

- Navigate *Attack Surface Management > Asset Management*.
- Select *IASM* toggle.
- Select *IASM Configuration* tab.
- Click *Actions* icon next to the configuration you want to modify and click *Edit*.
- Update the details and click *Update*.

Leaked Credentials

The FortiRecon team continually monitors for credential leaks and provides alerts to you through the FortiRecon portal. If any leaked or breached credentials that involve email addresses of the organizations or the users of their systems are detected, the FortiRecon portal automatically displays the information.

As part of consolidated collection, the leaked credentials are gathered from multiple sources:

- Publicly leaked or breached databases
- Privately shared databases
- Paste sites
- Malware infections

Leaked credentials are the primary source of *Password Re-Use Attacks*. It is important for any organization to quickly neutralize leaked credentials.

On the *Attack Surface Management > Leaked Credentials* page, you can:

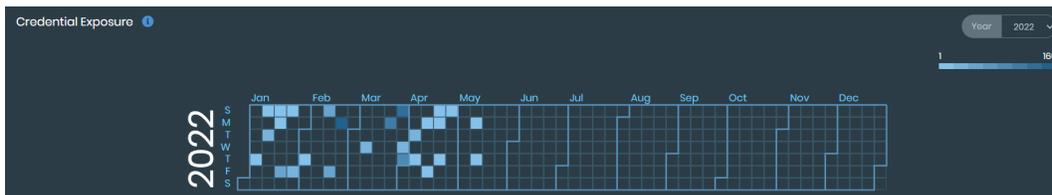
- View leaked credentials by year. See [Viewing leaked credentials by year on page 106](#).
- View breached datasets. See [Viewing breached datasets on page 107](#).
- View leaked credential details. See [Viewing leaked credential details on page 106](#).
- Export a list of leaked accounts. See [Exporting leaked accounts on page 108](#).

Viewing leaked credentials by year

The *Attack Surface Management > Leaked Credentials* page provides a calendar year of all breaches. You can change the year to view previous year data.

To view leaked credentials by year:

1. Go to *Attack Surface Management > Leaked Credentials*. The *Credential Exposure* year is displayed. Colored blocks indicate a breach. Light colored blocks indicate few affected credentials, and dark colored blocks indicate many affected credentials.



2. Hover over the block to display details about the breach.
3. From the *Year* menu, select a different year. The calendar changes to the selected year.
4. Click a color block to display details on the *Leaked Credentials* page. See [Viewing leaked credential details on page 106](#).

Viewing leaked credential details

On the *Attack Surface Management > Leaked Credentials* page, click the *Leaked Credentials* tab to view the results.

You can filter the list of leaked credentials by date and domain, and you can search for keywords.

To view leaked credential details:

1. Go to *Attack Surface Management > Leaked Credentials*, and click *Leaked Credentials*.
2. Apply the [filters](#) that you want.
3. Click a domain name to display more details.
4. Change the status of a report by selecting *Mark as Resolved* or *Mark as Active* in the *Actions* dropdown.

To filter leaked credentials details:

1. Go to *Attack Surface Management > Leaked Credentials*.
2. On *Leaked Credentials* tab, filter reports by a date range:
 - a. Click *Filter Report by Date Range*. Two calendars are displayed.
 - b. In the left calendar, select a month, year, and day to specify the start date of the range.
 - c. In the right calendar, select a month, year, and day to specify the end date of the range. Only reports from the date range are displayed.
 - d. Click the *Filter Report by Date Range* box, and click *X* to remove the date range filter.
3. Search for keywords:
 - a. In the *Type and hit Enter to Search* box, type a keyword, and press *Enter*.
 - b. The threats are filtered to display only threats with the keyword.
 - c. Click the *X* beside the keyword to remove the filter.
4. Toggle *Has Password* option to filter reports that contain passwords.
5. Filter by status in the *By Status* section:
 - Select *Active* or *Resolved* to filter threats by their assigned status.
6. Filter by domain in the *By Domains* section.

The screenshot shows the 'Leaked Credentials' interface. On the left, there is a 'Filters' sidebar with a search bar, a 'Date Range' filter, a 'Has Password' toggle, and two sections: 'By Status' (with 'Active' selected) and 'By Domain' (with 'demo2.com' and 'demo.com' selected). The main area displays a table of credentials with the following columns: Domain, Email, Breach Name, Added On, and Actions. The table shows 10 rows of data, including entries for CafePress, Verizon, and Zenler breaches. A 'Mark As Resolved' tooltip is visible over the 'Actions' column of the second row.

Domain	Email	Breach Name	Added On	Actions
demo2.com	user@demo.com	CafePress [www.cafepress.com]	Jan 10, 2024	Action ▲
demo2.com	user@demo.com	Verizon [www.verizon.com]	Dec 05, 2023	Action ▼
demo2.com	user@demo.com	CafePress [www.cafepress.com]	Oct 05, 2023	Action ▼
demo2.com	user@demo2.com	Verizon [www.verizon.com]	Aug 05, 2023	Action ▼
demo1.com	user@demo.com	Verizon [www.verizon.com]	Mar 05, 2023	Action ▼
demo1.com	user@demo1.com	Verizon [www.verizon.com]	Feb 05, 2023	Action ▼
demo.com	user3@demo.com	Zenler [www.zanvo.com]	Jun 01, 2022	Action ▼
demo2.com	user3@demo2.com	Zenler [www.zanvo.com]	May 01, 2022	Action ▼

Viewing breached datasets

On the *Attack Surface Management > Leaked Credentials* page, you can click the *Breach Dataset* tab to view results displayed on the following tabs:

- The *Relevant* tab displays breach information that contains email addresses related to your organization's domains.
- The *Other* tab displays all breach information indexed in FortiRecon's database, including breach information related to third-parties that does not contain email addresses related to your organization's domains.

You can filter the list of breached datasets by date, and you can search for keywords.

To view breached datasets:

1. Go to *Attack Surface Management > Leaked Credentials*. Select *Breached Dataset* tab. The following columns of information are available:

Breach Name	Displays the name of the breach.
Breach Date	Displays the date that the breach occurred.
Added On	Displays the date that the information was made available to other malicious actors.
Compromised Accounts	Displays the number of known compromised accounts.

2. Apply the [filters](#) that you want.
3. Click a breach to display more information about it.

To filter breached datasets:

1. Go to *Attack Surface Management > Leaked Credentials*, and click *Breached Dataset*.
2. Filter reports by a date range:
 - a. Click *Filter Report by Date Range*. Two calendars are displayed.
 - b. In the left calendar, select a month, year, and day to specify the start date of the range.
 - c. In the right calendar, select a month, year, and day to specify the end date of the range. Only reports from the date range are displayed.
 - d. Click the *Filter Report by Date Range* box, and click *X* to remove the date range filter.
3. Search for keywords:
 - a. In the *Type and hit Enter to Search* box, type a keyword, and press *Enter*.
 - b. The threats are filtered to display only threats with the keyword.
 - c. Click the *X* beside the keyword to remove the filter.
4. Toggle *Has Password* option to filter reports that contain passwords.
5. Filter the reports by relevance in *By Relevance* section.

The screenshot shows the 'Breached Dataset' view in the 'Leaked Credentials' section. On the left, there is a 'Filters' sidebar with a search bar, a 'Date Range' filter (set to 'Filter by Date Range'), a 'Has Password' toggle (checked), and a 'By Relevance' dropdown (set to 'Relevant'). The main area displays a table with the following data:

Total Breached Datasets : 11				
Breach Name	Breach Date	Added On	Compromised Accounts	
CafePress [www.cafepress.com]	Jul 31, 2016	Dec 15, 2023	2,600,372	
CafePress [www.cafepress.com]	Jul 31, 2016	Oct 15, 2023	2,600,372	
CafePress [www.cafepress.com]	Jul 31, 2016	Mar 15, 2023	260,037	
CafePress [www.cafepress.com]	Jul 31, 2016	Feb 15, 2023	2,600,372	
CafePress [www.cafepress.com]	Feb 20, 2019	Dec 23, 2020	22,802,961	

Exporting leaked accounts

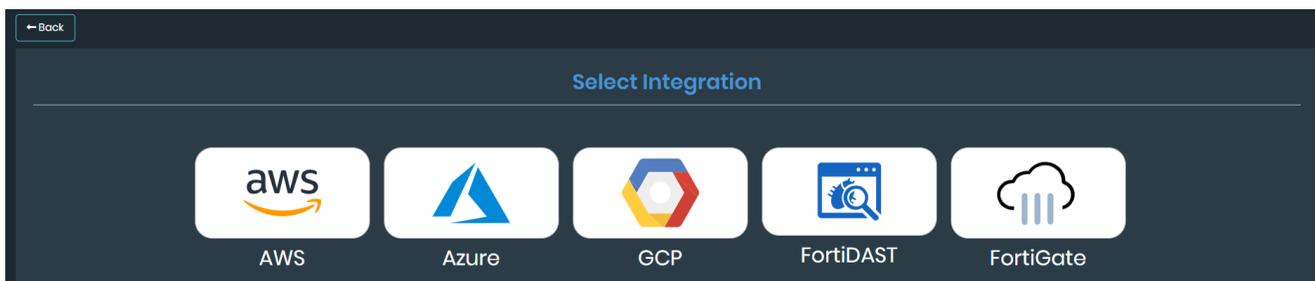
You can export a list of leaked accounts to Microsoft Excel format.

To export leaked accounts:

1. Go to *Attack Surface Management > Leaked Credentials*.
2. Select *Leaked Credentials* or *Breach Dataset* tab.
3. Click *Download* icon in the filters section. The file is downloaded to your computer.

Integrations

You can enable read only access to your environments and discover their cloud assets. Once assets are discovered, they are added to the *Attack Surface Management > Asset Discovery* and *Security Issues* pages. Click the *i* on the *Integrations* page for more information.



On the *Attack Surface Management > Integrations* page, you can:

- Add new integrations for AWS, Azure, Google Cloud Platform, FortiDAST, and FortiGate. See [Adding integrations on page 109](#).
- Edit and delete existing integrations. See [Editing integrations on page 112](#).



The *EASM/IASM* toggle is located at the top of the *Integrations* page. This toggle allows you to filter between EASM and IASM integrations.



Adding integrations

The *Attack Surface Management > Integrations* page displays all existing integrations. You can manually add new integrations as needed.

- [AWS](#)
- [Azure](#)
- [Google Cloud Platform](#)
- [FortiDAST](#)
- [FortiGate](#)



IASM only supports FortiGate integration.

To add a new AWS integration:

1. Go to *Attack Surface Management > Integrations*.
 2. Click the + icon.
 3. Select *AWS*. The *Add AWS* page is displayed.
-



For more information on creating an AWS IAM policy and role, click *Need Help?*

4. Select *EASM*.
5. Enter the account ID number in the *Account ID* field.
6. Enter a descriptive name in the *Integration Name* field.
7. Click *Save*.

To add a new Azure integration:

1. Go to *Attack Surface Management > Integrations*.
 2. Click the + icon.
 3. Select *Azure*. The *Add Azure* page is displayed.
 4. Select *EASM*.
 5. Enter the relevant values in the *Subscription ID*, *Client ID*, *Tenant ID*, and *Client Secret* fields.
-



These four values are necessary to create read-only access for your Azure cloud account. For information on generating these values, click *Need Help?*

6. Enter a descriptive name in the *Integration Name* field.
7. Click *Save*.

To add a new Google Cloud Platform integration:

1. Go to *Attack Surface Management > Integrations*.
2. Click the + icon.
3. Select *GCP*. The *Add GCP* page is displayed.
4. Select *EASM*.
5. Enter a descriptive name in the *Integration Name* field.

6. Enter the *JSON* information from the GCP configuration file.



For information on generating the GCP key file and downloading JSON, click *Need Help?*

7. Click *Validate*.

To add a new FortiDAST integration:

1. Go to *Attack Surface Management > Integrations*.
2. Click the + icon.
3. Select *FortiDAST*. The *Add FortiDAST* page is displayed.
4. Select *EASM*.
5. Enter the master email address in the *Email* field.
6. Enter the *API Key* from FortiDAST.
7. Click *Save* to verify the key.



Once the FortiDAST integration is verified, you can scan assets in the *EASM > Asset Discovery* page. See [Performing a FortiDAST scan](#).

FortiGate Integration

Integrating FortiGate with FortiRecon enhances the asset discovery capabilities of FortiRecon EASM. It does this by adding FortiGate Interface IPs and all IPs behind NAT to the *Attack Surface Management > Asset Discovery* page. Once the integration is verified, all assets discovered via FortiGate will have additional metadata, including:

- Name of Virtual IP on FortiGate
- Mapped Internal IP
- MAC address of Internal IP
- Mapped External Port
- Mapped Internal Port
- Operating System

You can use this metadata to take action faster on security vulnerabilities and threats.

To add a new FortiGate integration:

1. Go to *Attack Surface Management > Integrations*.
2. Click the + icon.
3. Select *EASM* or *IASM* using toggle.
4. Select *FortiGate*. The *Add FortiGate* page is displayed.
5. Enter a name for the integration.
6. Enter FortiGate IP address in the *Host* field.
7. Enter the *Port* number.
8. Enter the FortiGate access *Token*.



For information on creating token, click *Need Help?*

9. Select *Use HTTPs* checkbox if required.
10. Click *Save*.

Editing integrations

You can edit and delete existing integrations from the *EASM > Integrations* page.

To edit an integration:

1. Go to *EASM > Integrations*.
 2. Click *Edit*. The integration details are displayed.
 3. Edit the fields you want to change.
-

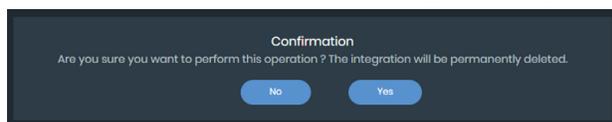


You cannot edit the *External ID* field for an AWS integration. You cannot edit the *Account ID*, *Subscription ID*, or *Tenant ID* for an Azure integration.

4. Click *Save*.

To delete an integration:

1. Go to *EASM > Integrations*.
2. Click *Delete*. The *Confirmation* message is displayed.



3. Select *Yes*.

Brand Protection

The Brand Protection (BP) module uses proprietary algorithms to detect common techniques used by cyber threat actors, such as web-based phishing attacks, typo-squatting, defacements, rogue apps, credential leaks, and brand impersonation in social media. You can use the Brand Protection module to detect activity early and take action, such as web site or application takedown, to protect your brand value, trust, integrity, and reputation.

The *Brand Protection* module contains the following pages:

Dashboard	Displays a summary of typo-squatting domains, flash alerts and reports, rogue apps, phishing campaigns, and takedown requests. See Dashboard on page 114 .
Domain Threats	Displays a list of typo-squatted domains and phishing URLs. You can initiate domain takedown or the suspension of monitoring. See Domain Threats on page 116 .
Social Media Threats	Displays all discovered profiles that may be impersonating your organization's social media pages. You can filter profiles, initiate profile takedown, and export a Microsoft Excel file containing profile details. See Social Media Threats on page 123 .
Rogue Mobile Apps	Displays all discovered apps that may be impersonating your organization's assets. You can filter apps, assign status, initiate app takedown, and export a Microsoft Excel file with app details. See Rogue Mobile Apps on page 131 .
Executive Monitoring	Displays threats targeted at high-profile individuals of your organization. You can filter threats and add executive profiles for monitoring. See Executive Monitoring .
Code Repo Exposure	Displays a list of attributes exposed in code repositories. See Code Repo Exposure on page 140 .
Open Bucket Exposure	Displays a list of files exposed in open buckets. See Open Bucket Exposure on page 143 .
Take Down	Displays a list of takedown request tickets and their current status. See Take Down on page 145 .

Brand Protection also includes *Logo Monitoring* feature which provides an additional method for identifying your brand on known phishing or malicious pages. This feature enhances the accuracy of identifying cases involving brand impersonation.



FortiRecon logo monitoring feature performs the following tasks:

- Analyzes all active typo-squatted domains to determine whether they host pages containing your organization's logo or logos that are resembling. When such domains are identified, a *Logo Detection* tag is assigned to the domain.
- Examines all domains and pages that are processed, which are obtained through phishing feeds to identify any instances where your organization might be impacted.
- Inspects all pages that are identified through the detection of the FortiRecon watermark.

Dashboard

The *Brand Protection > Dashboard* page provides information on threats to your organization's public facing assets, such as brand abuse, domain threats, and information exposure. From the *Brand Protection > Dashboard* page, you can:

- View a summary of domain threats to your organization. See [Viewing the domain threat summary on page 114](#).
- View a summary of brand abuse, such as rogue apps or social media threats. See [Viewing the brand abuse summary on page 114](#).
- View a summary of information exposure, including code and file exposure. See [Viewing the information exposure summary on page 115](#).
- View trends and important alerts of threats to your brand. See [Viewing the alert summary on page 115](#).
- View total credits used and available for domain takedown. See [Viewing the takedown credit summary on page 116](#).

Viewing the domain threat summary

The *Dashboard* displays a summary of domain threats in the *Summary* widget.

To view the domain threat summary:

1. Go to *Brand Protection > Dashboard*.
2. Scroll to the *Summary* widget. *Total Threats* and the distribution of threat type is displayed.



3. Hover over the threat type distribution bar to see the number of threats for each type.

Viewing the brand abuse summary

The *Dashboard* displays information on domain phishing, rogue apps, and social media threats in the *Brand Abuse* widget.

To view the brand abuse summary:

1. Go to *Brand Protection > Dashboard*.
2. Scroll to the *Brand Abuse* widget. High level information on *Total Threats*, *Domain Threats*, *Rogue Apps*, and *Social*

Media Threats are displayed.



Viewing the information exposure summary

The *Dashboard* displays information on discovered, exposed information, such as code and file exposure in the *Information Exposure* widget.

To view the information exposure summary:

1. Go to *Brand Protection > Dashboard*.
2. Scroll to the *Information Exposure* widget. High level information about code and file exposure is displayed.

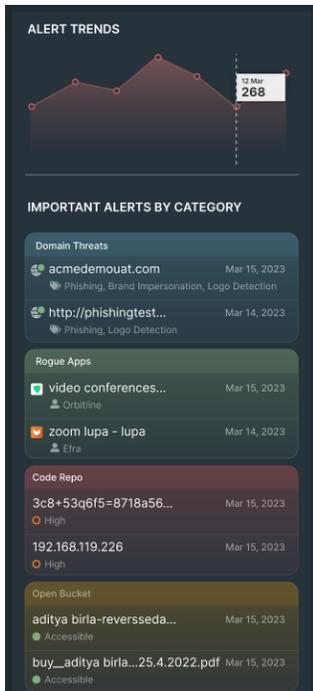


Viewing the alert summary

The *Dashboard* displays high level information on alerts in the *Alert Trends* widget.

To view the alert summary:

1. Go to *Brand Protection > Dashboard*.
2. Scroll to the *Alert Trends* widget. Trends are displayed in a graph and important alert highlights are organized by category.



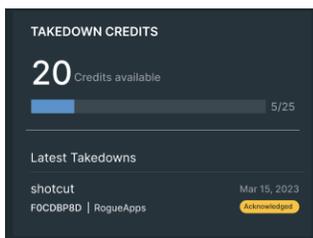
3. Hover over the graph for more information on daily alerts.

Viewing the takedown credit summary

The *Dashboard* displays information on available and used takedown credits and the most recent domain takedowns in the *Takedown Credits* widget.

To view the takedown credit summary:

1. Go to *Brand Protection > Dashboard*.
2. Scroll to the *Takedown Credits* widget. The number of used, total, and available credits is displayed.



Domain Threats

The *Domain Threats* page displays a list of domains impersonating your organization's domain, such as typo-squatted domains and phishing URLs.

From the *Brand Protection > Domain Threats* page, you can:

- Review discovered domain threats and high level threat information. See [Reviewing domain threats on page 117](#).
- Take action against impersonating domains, such as requesting domain takedown. See [Managing domain threats on page 118](#).
- Filter the list of domains. See [Filtering domains on page 118](#).
- Create a digital watermark. See [Digital watermark on page 119](#).
- Add a new domain or URL for monitoring or takedown. See [Adding a new domain threat](#).
- Manage referrer logs. See [Managing referrer logs](#).

Following are the techniques used to detect domains and URLs that either are impersonating your organization's brand or potentially may do so in the future.

- *Typo-squatting* - This is a technique where several combinations of keywords are generated that are lookalikes of your organization's own domain names. These are matched against newly observed domains, and any matching domains are kept under monitoring.
- *Digital Watermarking* -This technique involves generating an obfuscated JavaScript code that can be embedded into your organization's websites. This allows for rapid detection of phishing campaigns that copy web pages from official websites.
- *Phishing Feeds Integration* -This method involves matching reported and known phishing URLs against your organization's brand.
- *Brand impersonation* - This is a technique where it is determined if the detected domain or URL is hosting content that is maliciously impersonating your organization's brand. Although, it may not be explicitly hosting a phishing page.
- *Logo Detection* - This technique supplements the *Brand Impersonation* technique by identifying whether the captured domain or URL is hosting a web page that displays your organization's logo.
- *MX Record Detection* - MX records are used to specify which mail server is responsible for handling email for a particular domain. This technique is used to identify domains that, even if they are not hosting any malicious web content, may still be configured to send phishing emails.

Threat actors often use homoglyphs to create look-alike domain names. This means they replace a letter in the domain name with a similar-looking number or letter from other languages with characters that resemble English characters.

For example:

- fortinet.com
- fortinet.com
- f0rtinet.com



In first two domain names, the ascii 'i' has been replaced with similar looking unicode letters from non-ascii scripts. In the third one, the 'o' has been replaced with ascii representation of 'zero'.

FortiRecon's typosquatting algorithm anticipates these possibilities. It generates both Unicode and Punycode combinations for your organization's original domains and hunts for any newly registered domains that match any of these combinations.

Reviewing domain threats

You can review information about domain threats in the *Brand Protection > Domain Threats* page. Information displayed about domain threats includes:

- Domain name and URL
- Registration date
- Threat type tags
- Threat status
- Original domain

To review exposed attributes:

1. Go to *Brand Protection > Domain Threats*.
2. Review the high level threat information:
 - Review the distribution of threat types and the total number of discovered threats in the *Summary*.
 - Review the distribution of threat statuses in *Domain Status*.
 - Review the number of takedown credits available in *Takedown Credits*.
3. Select a threat to review detailed threat information.

Managing domain threats

You can interact with discovered domain threats, such as marking the files as resolved or request domain takedown.

To manage a threat:

1. Go to *Brand Protection > Domain Threats*
2. Find the threat you want to manage.
3. Change the status:
 - Select *Action > Mark as Resolved* to indicate that the domain threat has been resolved.
 - Select *Action > Take Down* to initiate the domain takedown process.
 - Select *Action > Mark as Safelist* to add the domain to a safelist. FortiRecon will stop monitoring the safelisted domain.
 - Select *Action > Mark as False Positive* to mark the domain threat as a false alarm.
4. Click *Comment* to add a comment to the threat history.

Filtering domains

You can filter threats by date, status, threat type tags, or original domain.

To filter domain threats:

1. Go to *Brand Protection > Domain Threats*
2. Filter threats by a date range:
 - a. Click *Filter By Date Range*. Two calendars are displayed.
 - b. In the left calendar, select a month, year, and day to specify the start date of the range.
 - c. Select a month, year, and day to specify the end date of the range.
Only threats from the date range are displayed.
 - d. Click the *Filter By Date Range* box, and click *X* to remove the date range filter.

3. Search for keywords:
 - a. In the *Type and hit Enter to Search* box, type a keyword, and press *Enter*.
The threats are filtered to display only threats with the keyword.
 - b. Click the X beside the keyword to remove the filter.
4. Filter by action in the *By Action* section:
 - Select *Active*, *Resolved*, *Safelist*, or *Takedown* to filter threats by the actions performed.
5. Filter by status in the *By Status* section:
 - Select *Online*, *Offline*, or *Non Functional* to filter threats by their assigned status.
6. Select the threat type in the *By Tags* section.
7. Select the original domain in the *By Original Domain* section.
The files with the matching filters are displayed.

Digital watermark

FortiRecon uses digital watermarks on official login and sensitive pages to track cloning and re-hosting of the web pages as phishing sites on another IP address. A small script that helps the FortiRecon research team track the cloning or re-hosting of the site is provided for you to embed into your website. This process also helps you identify whether any of your customers have been victims of phishing on any cloned pages, and then take remedial actions.

Adding watermarks

You can create a digital watermark to be embedded into your website on the *Domain Threats* page. You can download the digital watermark in two formats:

- **CDN Link:** The JavaScript code is hosted on Fortinet's server, and you must embed the link into the index or login page of your web application using the `<script>` tag.
- **JavaScript file:** The code is hosted on your own server, and you must embed the file using the `<script>` tag, or paste the code into the index or login page of your web application.

To create a digital watermark:

1. Go to *Brand Protection > Phishing* and select *Digital Watermark*. A list of current watermarks are displayed.
2. Click *Add Watermark*. The *Code Preview* pane is displayed.

```

Digital Watermark Name
-----
Select Domains
- aacmedemo.com
- aacmcorpdemo.com
- aacmaonlineademo.com
- fortinet.com

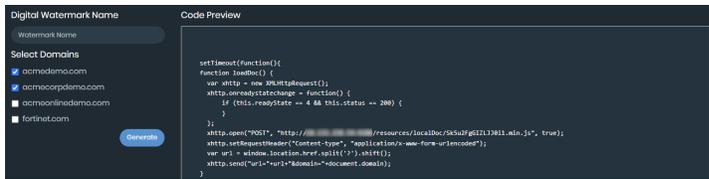
Code Preview
-----
setTimeout(function(){
function loadbw() {
var xmlhttp = new XMLHttpRequest();
xmlhttp.onreadystatechange = function() {
if (this.readyState == 4 && this.status == 200) {
}
};
xmlhttp.open("POST", "http://[redacted]/resources/localDoc/9k5idfg1213981.min.js", true);
xmlhttp.setRequestHeader("Content-type", "application/x-www-form-urlencoded");
var url = window.location.href.split("#")[0].split("?");
xmlhttp.send("url="+url+"&domain="+document.domain);
}

function loadDocInputs() {
var forms = document.getElementsByTagName("form");
for (var i = 0; i < forms.length; i++) {
forms[i].addEventListener("submit", function() {
var data = [];
var form = parent.document.getElementsByTagName("form");

for (i = 0; i < subForms.length; i++) {
var elements = subForms[i].elements;
for (j = 0; j < elements.length; j++) {
if (elements[j].name.length) {
data.push(elements[j].name + "=" + elements[j].value);
}
}
}
}
}
}
}

```

3. Enter a name for the watermark in the *Digital Watermark Name* text box.
4. Under *Select Domains*, select the domains you want to include. The *Generate* button is displayed.



5. Review the code in *Code Preview* and click *Generate*. The list of watermarks is displayed after the new watermark is generated.
6. Download the watermark:
 - a. Click *Copy CDN Link* to copy the CDN Link to your computer's clipboard.
 - b. Click *Download Digital Watermark* to download the JavaScript file to your computer.
 The digital watermark can be added to your website.



A maximum of 10 domains can be added to a digital watermark when choosing domains in *Select Domains*.

Editing watermarks

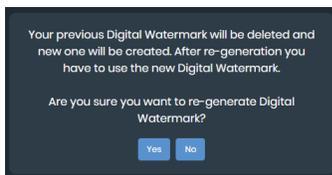
You can edit digital watermarks through the *Brand Protection > Phishing* page.

To edit a digital watermark:

1. Go to *Brand Protection > Domain Threats* and select *Digital Watermark*. A list of current watermarks is displayed.
2. Find the watermark you want to edit and select *View & Regenerate*. The *Code Preview* is displayed.



3. Make changes to *Digital Watermark Name* and *Select Domains* as needed. Review the changed code in *Code Preview* and select *Regenerate*. A confirmation message is displayed.



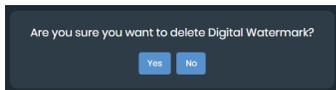
4. Click *Yes*.

Deleting watermarks

You can delete digital watermarks through the *Brand Protection > Phishing* page.

To delete a digital watermark:

1. Go to *Brand Protection > Domain Threats* and select *Digital Watermark*. A list of current watermarks is displayed.
2. Find the watermark you want to remove and click *Delete*. A confirmation message is displayed.



3. Click Yes.

Adding a new domain threat

You can add a new domain or URL for monitoring or takedown.

To add a new domain:

1. Go to *Brand Protection > Domain Threats*.
2. Click *Add Domain Threats*.
3. Click *Add* icon.
4. Select the *Original Domain* from the dropdown.
5. Enter the *Domain* information.
6. Select the tags that you want to add to the domain threat.
7. Click *Select file* to browse and upload a screenshot of the domain threat. Single file uploads are supported. To upload additional files, click *Select files* next to *Add supporting documents (if any)*.



Uploading a screenshot is mandatory to save the new domain threat.

8. Provide comments in the *Add comment* field, if any.
9. Click *Save*.

To add a new URL:

1. Go to *Brand Protection > Domain Threats*.
2. Click *Add Domain Threats*.
3. Click *Add* icon.
4. Select *URL* toggle.
5. Select the *Original Domain* from the dropdown.
6. Enter the *URL* information.
7. Select the tags that you want to add to the domain threat.
8. Click *Select file* to browse and upload a screenshot of the domain threat. Single file uploads are supported. To upload additional files, click *Select files* next to *Add supporting documents (if any)*.



Uploading a screenshot is mandatory to save the new domain threat.

9. Provide comments in the *Add comment* field, if any.
10. Click *Save*.

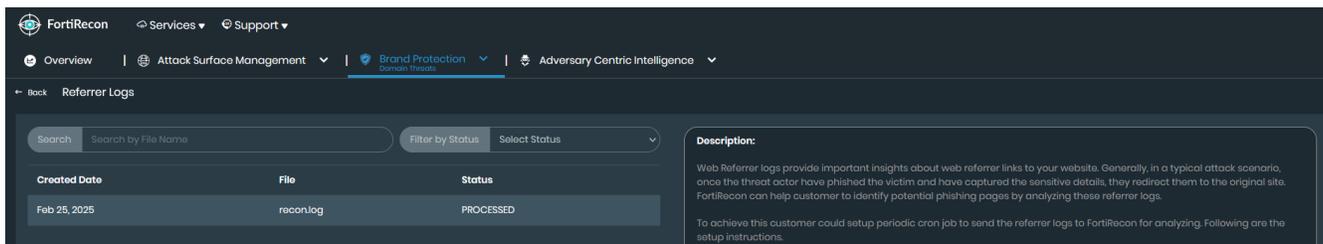
After you add a new domain or URL, the status field in the *Add Domains* page will indicate one of the following:

- **In Review:** The FortiRecon team is currently assessing the newly added asset.
- **Approved:** The asset has been validated and approved.
- **Rejected:** The asset was deemed invalid. A comment will explain the reason for rejection.

Managing referrer logs

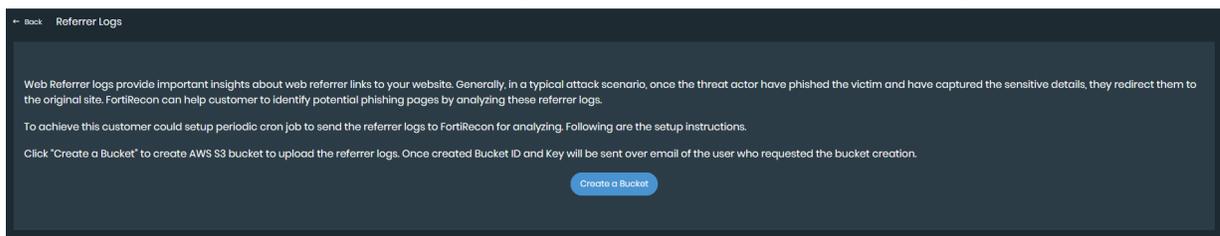
FortiRecon analyzes web referrer logs to identify potential phishing attacks. Web referrer logs provide valuable insights into the links that direct traffic to your website. In a typical phishing attack, threat actors redirect victims to the legitimate site after capturing sensitive information. By analyzing these logs, FortiRecon can detect suspicious referrer patterns indicative of phishing activity.

To enable this analysis, you must configure a periodic cron job to upload your web referrer logs to FortiRecon via Amazon Web Services Command Line Interface (AWS CLI).



Before uploading log files, ensure that AWS CLI is installed and configured on the server where the logs are stored. Perform the following steps to setup referrer logs.

1. **Create AWS Bucket.** You need to create a new S3 bucket once, for the initial setup.
 - a. In FortiRecon, navigate to *Brand Protection > Domain Threats > Manage Referrer Logs*.
 - b. Click *Create a Bucket*.
 - c. Upon successful bucket creation, the necessary access information will be shared with you via email.



2. **Download and Install AWS CLI.** Install AWS CLI on your system using the appropriate commands for your operating system:
 - **Windows:** Download the installer from the [AWS CLI Installation](#) page.
 - **macOS:** Run the command `brew install awscli` in your terminal.
 - **Linux:** Run the following command in your terminal.
 - For Debian-based systems, run the command `sudo apt-get install awscli`.
 - For Red Hat-based systems, execute the command `sudo yum install aws-cli`.

3. *Configure AWS CLI.* After installing AWS CLI, configure it with your AWS access key and secret key shared via email.

- a. Open your terminal or command prompt.
- b. Run the command `aws configure`.
- c. Enter your credentials when prompted.
 - *AWS Access Key ID:* Enter your access key.
 - *AWS Secret Access Key:* Enter your secret key.
 - *Default region name:* Enter your preferred AWS region (e.g., us-east-1).
 - *Default output format:* Press Enter to accept the default (usually json).

4. *Upload Log Files.* Upload your log files to the designated S3 bucket using the following command.

```
aws s3 cp /path/to/local/file s3://your-bucket-name/
```

Replace `/path/to/local/file` with the actual path to your log file.

Replace `your-bucket-name` with the name of your S3 bucket.

Example: `aws s3 cp /home/user/documents/apache.log s3://cddf82s42-22sced-e6nws4c436-referal-logs-`

`testing/Co5311MJyOQXBJI9741ifVwgNPSGaNcJ1F0qqG1UNEctHbfMHiBvbg5tnsoJRAw3/`



- Only valid log files in **.log** or **.zip** format will be processed.
- Uploaded files are processed within a few hours.
- Files are automatically deleted after 7 days.
- FortiRecon currently supports **Apache** and **Nginx** web server logs. If you use a different web server, open a support ticket to request support.

Social Media Threats

The *Social Media Threats* page displays a list of profiles impersonating your organization's social media profiles. This feature is supported for **X (formerly known as Twitter)**, **LinkedIn**, **Facebook** and **Instagram** social media platforms.

From the *Brand Protection > Social Media Threats* page, you can:

- View the list of profiles that are social media threats. See [Reviewing social media threats on page 123](#).
- Take action against impersonating profiles, such as requesting profile takedown. See [Managing social media threats on page 124](#).
- Filter the list of profiles. See [Filtering social media threats on page 124](#).
- Add official social media profiles. See [Adding official profiles on page 125](#).
- Add a new social media profile for monitoring. See [Adding a new social media threat](#).
- Export information on discovered profiles. See [Exporting impersonating profiles](#).
- View archived alerts. See [Alerts on page 127](#).

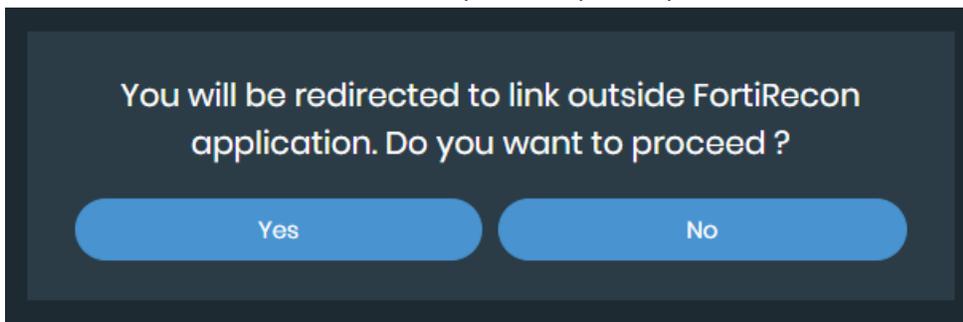
Reviewing social media threats

You can review information about social media threats in the *Brand Protection > Social Media Threats* page. Information displayed about social media threats includes:

- Profile name
- Handle name
- Location
- Friends count
- Followers count
- Posts count

To review social media threats:

1. Go to *Brand Protection > Social Media Threats*.
2. Review the high level threat information:
 - Review the distribution of profile types and the total number of discovered profiles in the *Alert Summary*.
 - Review the distribution of threat profiles based on the social media platforms in *Threats by Social Media*.
 - Review the number of takedown credits available in *Takedown Credits*.
3. Click  icon next to a discovered threat profile to open the profile in a new tab. A warning message is displayed.



4. Click Yes.

Managing social media threats

You can interact with discovered social media threats, such as marking the profile as false positive or request profile takedown.

To manage a threat:

1. Go to *Brand Protection > Social Media Threats*
2. Find the threat you want to manage.
3. Change the status:
 - Select *Action > Mark as False Positive* to indicate that the social media threat has been falsely identified.
 - Select *Action > Take Down* to initiate the profile takedown process.
4. Click *Comment* to add a comment to the threat history.

Filtering social media threats

You can filter threats by date, status, threat type tags, or original domain.

To filter domain threats:

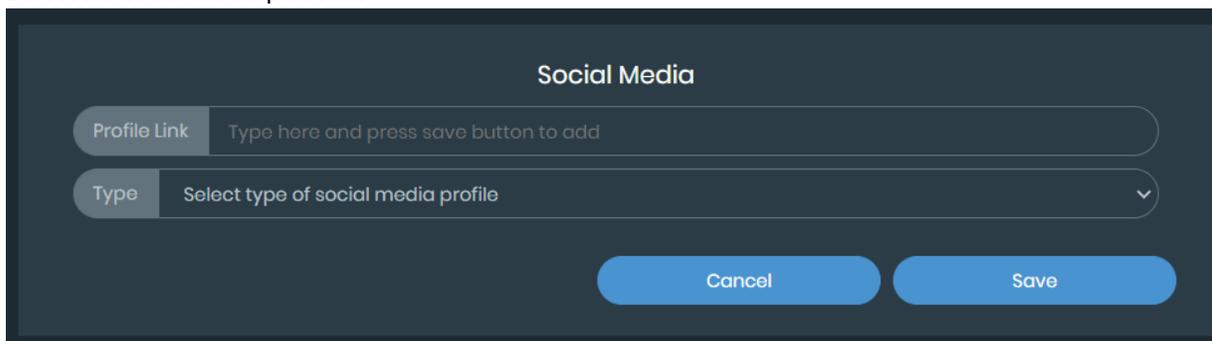
1. Go to *Brand Protection > Social Media Threats*
2. Filter threats by a date range:
 - a. Click *Filter By Date Range*. Two calendars are displayed.
 - b. In the left calendar, select a month, year, and day to specify the start date of the range.
 - c. Select a month, year, and day to specify the end date of the range.
Only threats from the date range are displayed.
 - d. Click the *Filter By Date Range* box, and click *X* to remove the date range filter.
3. Search for keywords:
 - a. In the *Type and hit Enter to Search* box, type a keyword, and press *Enter*.
The threats are filtered to display only threats with the keyword.
 - b. Click the *X* beside the keyword to remove the filter.
4. Filter by status in the *By Actions* section:
 - Select *Active*, *False Positive*, or *Active Takedown* to filter threats by their assigned status.
5. Select the social media platform in the *By Social Media* section.

Adding official profiles

You can add official social media profile of your organization from *Brand Protection > Social Media Threats* page to differentiate between legitimate and impersonating profiles.

To add official profiles:

1. Go to *Brand Protection > Social Media Threats*
2. Click *Official Profiles* on the top right corner.
3. Click add icon.
4. Provide the required information:
 - a. Enter the profile URL.
 - b. Select the social media platform.



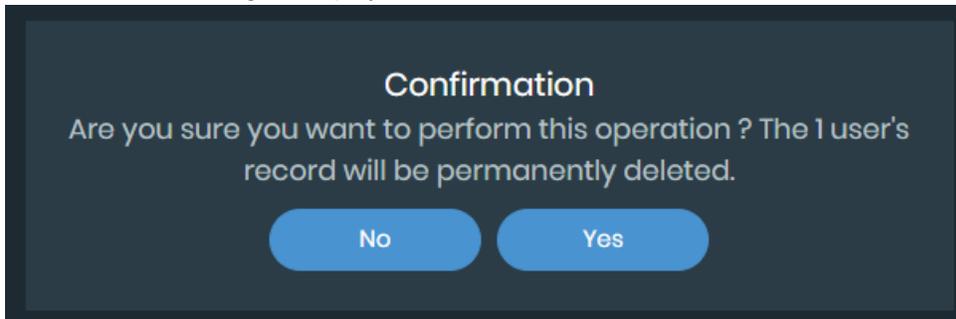
The screenshot shows a dark-themed modal window titled "Social Media". It contains two input fields: "Profile Link" with a placeholder "Type here and press save button to add" and "Type" with a placeholder "Select type of social media profile" and a dropdown arrow. At the bottom, there are two blue buttons: "Cancel" and "Save".

5. You can also add official social media profiles in bulk by uploading excel (XLS) file containing profile information including profile URL and type.
 - a. Click Upload XLS icon.
 - b. Browse and select the file. Click *Open*.

Note: Ensure that the format in which the profiles data is stored matches with the required format. To view the required format click Download Sample XLS icon.

To delete an official profile:

1. Go to *Brand Protection > Social Media Threats*
2. Click *Official Profiles* on the top right corner.
3. Select the required profile.
4. Click *Delete* icon.
5. A confirmation message is displayed. Click *Yes*.



Adding a new social media threat

You can add social media profiles for monitoring.

To add a new social media threat:

1. Go to *Brand Protection > Social Media Threats*.
2. Click *Add Social Media Threat*.
3. Click *Add* icon.
4. Select the *Type* of social media from the dropdown.
5. Enter the profile URL in *Link* field.
6. Enter the *Profile Name*.
7. Enter the *Handle Name*.
8. Click *Select file* to browse and upload a screenshot of the social media threat. Single file uploads are supported. To upload additional files, click *Select files* next to *Add supporting documents (if any)*.



Uploading a screenshot is mandatory to save the new social media threat.

9. Provide comments in the *Add comment* field, if any.
10. Click *Save*.

After you add a new social media profile, the status field in the *Add Profiles* page will indicate one of the following:

- **In Review:** The FortiRecon team is currently assessing the newly added profile.
- **Approved:** The profile has been validated and approved.
- **Rejected:** The profile was deemed invalid. A comment will explain the reason for rejection.

Alerts

FortiRecon lists flash reports prior to version 23.2.0 on the *Brand Protection > Social Media Threats > Show Archived* page.

From the *Archived Alerts* page, you can:

- View flash reports. See [Viewing flash reports on page 127](#).
- Filter through all flash reports available. See [Filtering reports on page 127](#).
- Download flash reports as threat intelligence reports in PDF or as an observable Microsoft Excel file. See [Downloading reports on page 128](#).
- Email and share links to flash reports with others. See [Sharing reports on page 130](#)
- Rate flash reports for relevance. See [Rating reports on page 131](#).
- Review reports and send queries to FortiRecon. See [Reviewing reports on page 131](#).

Viewing flash reports

The *Brand Protection > Social Media Threats > Show Archived* page displays all the flash reports archived to you. By default all reports are displayed, starting with the latest report. Reports include in depth information, such as:

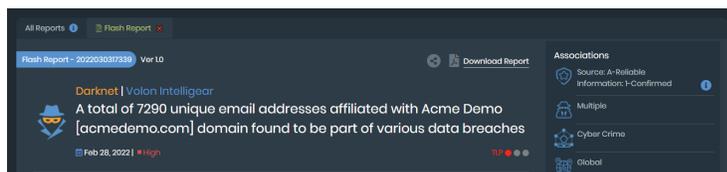
- Threat summary
- Threat detail
- Assessment



A *Takedown* button is included in the report details of reports related to brand abuse. Select the button to begin the takedown process.

To view flash reports:

1. Go to *Brand Protection > Social Media Threats > Show Archived*. The *All Reports* tab displays all flash reports.
2. Click a report title to open the report details.



Filtering reports

You can adjust the reports that display on the *Alerts* page.

To filter reports:

1. Go to *Brand Protection > Alerts*.
2. Filter reports by a date range:
 - a. Click *Filter Report by Date Range*. Two calendars are displayed.
 - b. In the left calendar, select a month, year, and day to specify the start date of the range.
 - c. In the right calendar, select a month, year, and day to specify the end date of the range.
Only reports from the date range are displayed.
 - d. Click the *Filter Report by Date Range* box, and click *X* to remove the date range filter.
3. Search for keywords:
 - a. In the *Type and hit Enter to Search* box, type a keyword, and press *Enter*.
The reports are filtered to display only reports with the keyword.
 - b. Click the *X* beside the keyword to remove the filter.
The reports that match the set filters display.

Downloading reports

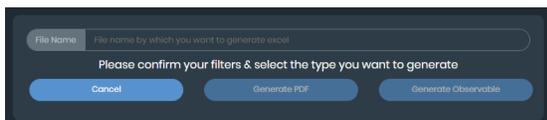
You can download reports from the *Alerts* tab as brand protection alerts in PDF or as an observable Microsoft Excel file. Brand protection alerts provide information from a flash report whereas observables outline any Indicators of Compromise (IOCs) highlighted in the flash report.

Downloaded reports can be set to include:

- All reports available
- Several, specific reports
- Single reports

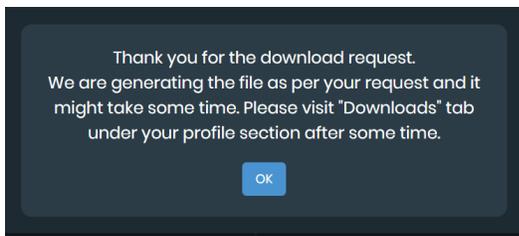
To download all reports available:

1. Go to *Brand Protection > Social Media Threats > Show Archived*, and select *Downloads*. A confirmation dialog is displayed.



2. Enter a name for the downloaded file in the *File Name* text box.
3. Select the format of the downloaded file:
 - Select *Generate PDF* to download a brand protection alert in PDF.
 - Select *Generate Observable* to download details in Microsoft Excel format.

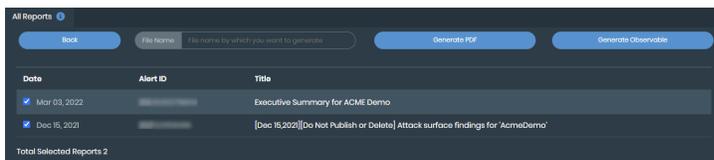
The following message is displayed:



4. Click *OK*.
5. Retrieve the report. See [Retrieving downloads on page 215](#).

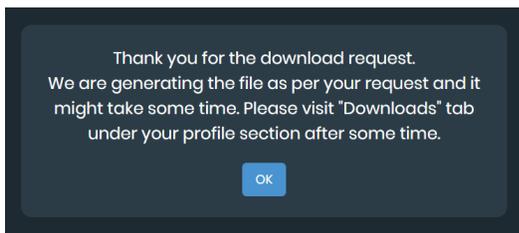
To download specific reports:

1. Go to *Brand Protection > Social Media Threats > Show Archived*.
2. Click the filter icon and set the desired report filters. See [Filtering reports on page 127](#)
3. Select *Download Specific Reports*, and select the reports to include in the report.
4. Select *Downloads*. A list of the selected reports is displayed with download options.



5. Enter a name for the downloaded file in the *File Name* text box.
6. Select the format of the downloaded file:
 - Select *Generate PDF* to download a brand protection alert in PDF.
 - Select *Generate Observable* to download details in Microsoft Excel format.

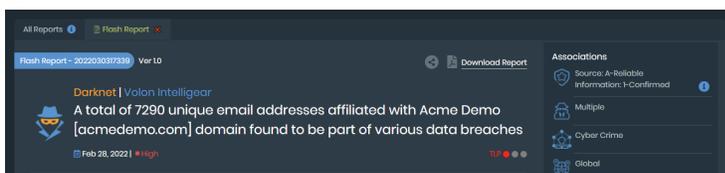
The following message is displayed:



7. Click *OK*.
8. Retrieve the report. See [Retrieving downloads on page 215](#).

To download a single report:

1. Go to *Brand Protection > Social Media Threats > Show Archived* and click the desired report. The report details open in a new tab.



2. Click *Download Report*.

The report downloads to your computer in PDF.

Sharing reports

You can share a link so that other users can access details of the report without needing to download a file. You can email the link or copy the link to share in a format of your choice.



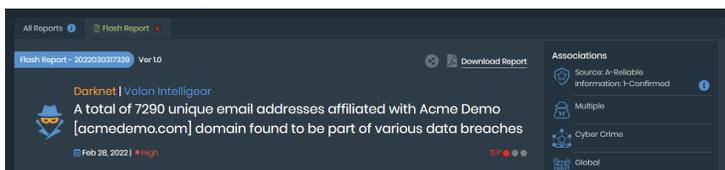
Only recipients who have a FortiRecon account can access reports through a shared link.

The Traffic Light Protocol (TLP) level dictates who you can share a report with:

- *TLP Red*: The report cannot be shared outside of your organization and should be restricted only to personnel who need to know.
- *TLP Amber*: The report can only be shared with members of your organization and clients who need to know the information to protect themselves.
- *TLP Green*: The report can be shared with peers and partner organizations but cannot be shared on publicly accessible channels.
- *TLP White*: The report can be shared without restriction.

To share a link to a report:

1. Go to *Brand Protection > Social Media Threats > Show Archived* and select the report you want to share. The report details are displayed in a new tab.



2. Hover your mouse over *Share Link*. *Copy Link* and *Email* display.



3. Select how you would like to share the link:
 - a. Click *Copy Link* to share the link in a format of your choice.
The link is copied to your computer clipboard, and you can paste it into a message as needed.
 - b. Click *Email* to email the link.
Your personal email opens with a draft that includes the report link.



You cannot share Executive Summaries.

Rating reports

You can rate reports in a five star scale. The collection of ratings helps the FortiRecon team provide more relevant reports.



The rating scale is based on five stars. The rating can range from one to five by moving left to right along the stars, with the leftmost star representing one.

To rate a report:

1. Go to *Brand Protection > Social Media Threats > Show Archived* and select the report you want to rate. The report details are displayed in a new tab.
2. Hover your mouse over the stars in *Ratings & Reviews*. The stars turn yellow as you move the mouse across them.



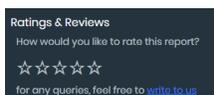
3. Click the star that corresponds to your rating out of five. Your rating is saved, and you can change it at any time by selecting a different star.

Reviewing reports

You can send reviews and queries to the FortiRecon team. Any questions or reviews on reports can be sent using the *write to us* feature.

To review a report:

1. Go to *Brand Protection > Social Media Threats > Show Archived* and select the report you want to review. The report details are displayed in a new tab.
2. In *Ratings & Reviews*, select *write to us*.



Your personal email opens with a draft that is ready to be sent to the FortiRecon team.

Rogue Mobile Apps

On the *Brand Protection > Rogue Mobile Apps* page, the FortiRecon research team continuously monitors a number of application stores to identify newly created applications that appear similar to your organization's official application.

From the *Brand Protection > Rogue Mobile Apps* page, you can:

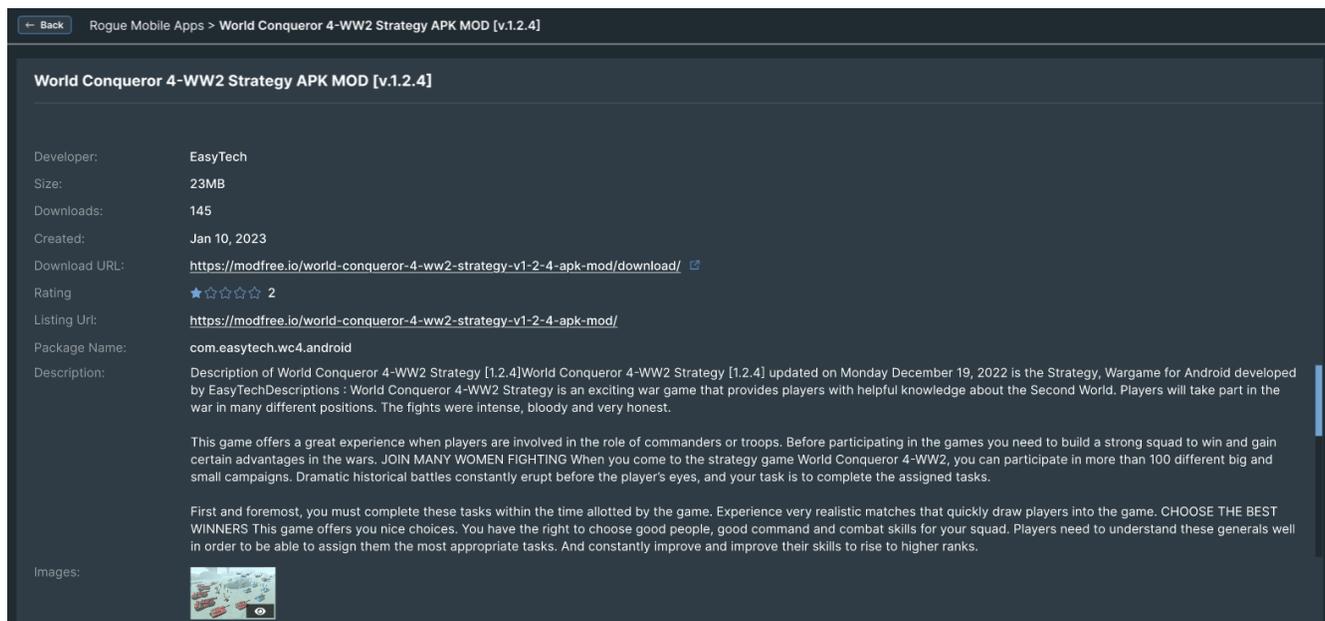
- View information on monitored applications. See [Reviewing rogue applications on page 132](#).
- Filter for specific mobile applications. See [Filtering rogue applications on page 132](#).
- Add official applications. See [Adding official applications on page 133](#).
- Assign an app status. See [Assigning application status on page 134](#).
- Initiate takedown of a rogue application. See [Taking down rogue apps on page 135](#).
- Export information on applications. See [Exporting rogue applications on page 135](#).

Reviewing rogue applications

You can view more information on monitored applications on the *Rogue Mobile Apps* page.

To review rogue applications:

1. Go to *Brand Protection > Rogue Mobile Apps*.
2. Review the high level threat information:
 - Review the distribution of application types and the total number of discovered rogue applications in the *Rogue App Summary*.
 - Review the distribution of applications based on the app stores in *By App Stores*.
 - Review the number of takedown credits available in *Takedown Credits*.
3. Filter for the application you want to review. See [Filtering rogue applications on page 132](#).
4. Select the application you want to review. The app information is displayed in a new tab.



Filtering rogue applications

You can filter the apps that appear on the *Rogue Mobile Apps* page by *App Status*, *App Stores* and *Start & End Date*.

To filter apps:

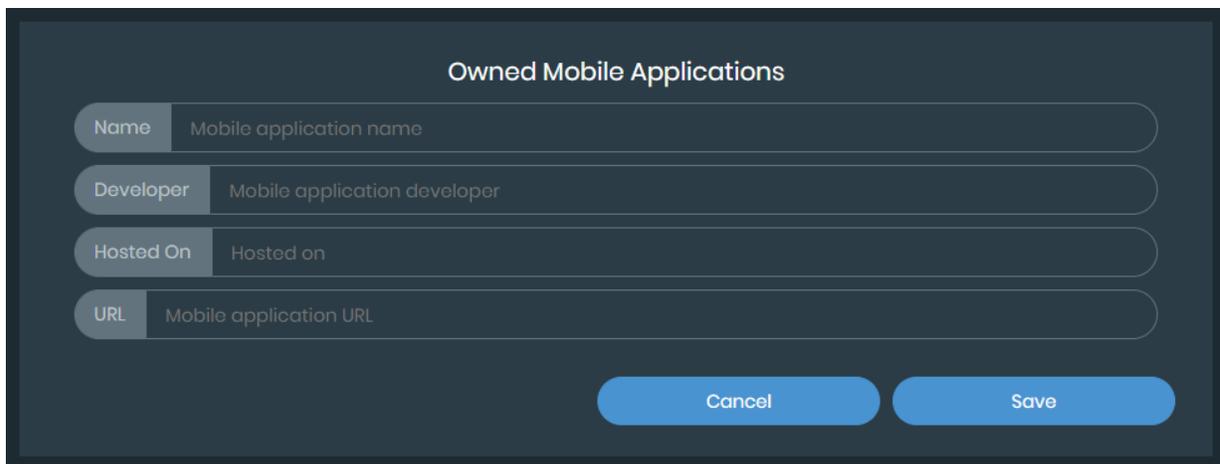
1. Go to *Brand Protection > Rogue Mobile Apps*.
2. Filter reports by a date range:
 - a. Click *Filter By Date Range*. Two calendars are displayed.
 - b. In the left calendar, select a month, year, and day to specify the start date of the range.
 - c. In the right calendar, select a month, year, and day to specify the end date of the range.
Only apps from the date range are displayed.
 - d. Click the *Filter By Date Range* box, and click *X* to remove the date range filter.
3. Search for keywords:
 - a. In the *Type and hit Enter to Search* box, type a keyword, and press *Enter*.
The apps are filtered to display only apps with the keyword.
 - b. Click the *X* beside the keyword to remove the filter.
4. Select the *Actions*, either *Unofficial*, *Takedown*, or *Rogue*.
5. Select the *App Stores*.
The applications with the matching filters are displayed.

Adding official applications

You can add official applications of your organization from *Brand Protection > Rogue Mobile Apps* page to differentiate between legitimate and rogue applications.

To add official applications:

1. Go to *Brand Protection > Rogue Mobile Apps*
2. Click *Official Apps* on the top right corner.
3. Click add icon.
4. Enter the following information in the confirmation pop-up:
 - a. Application name.
 - b. Developer
 - c. Hosted on
 - d. URL



The screenshot shows a dark-themed modal window titled "Owned Mobile Applications". It contains four input fields, each with a label on the left and a placeholder text on the right:

- Name**: Mobile application name
- Developer**: Mobile application developer
- Hosted On**: Hosted on
- URL**: Mobile application URL

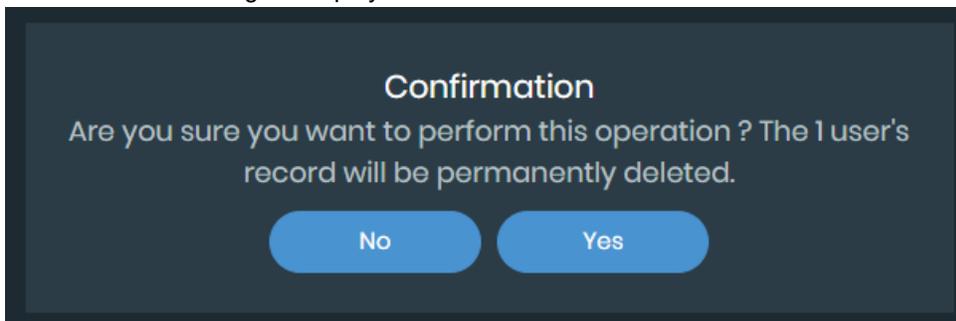
At the bottom of the modal, there are two blue buttons: "Cancel" on the left and "Save" on the right.

5. You can also add official applications in bulk by uploading excel (XLS) file containing application information including application name, mobile app developer, hosted on and app URL.
 - a. Click Upload XLS icon.
 - b. Browse and select the file. Click *Open*.

Note: Ensure that the format in which the profiles data is stored matches with the required format. To view the required format click Download Sample XLS icon.

To delete an official application:

1. Go to *Brand Protection > Rogue Mobile Apps*
2. Click *Official Profiles* on the top right corner.
3. Select the required application.
4. Click Delete icon.
5. A confirmation message is displayed. Click *Yes*.



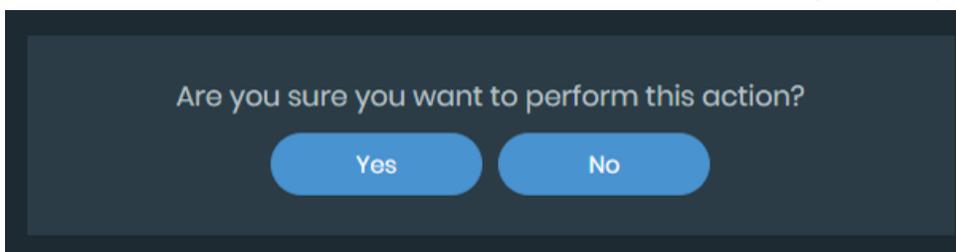
Assigning application status

You can use the following status designations to define app status on the *Rogue Mobile Apps* page:

- *Unofficial*: The app is not published by officially recognized users.
- *Rogue*: The app is unofficial and potentially malicious. If an application is marked as *Rogue*, the *Takedown* function becomes available.

To assign a new application status:

1. Go to *Brand Protection > Rogue Mobile Apps* and find the app.
2. Click Actions and select the new application status. A confirmation message is displayed.



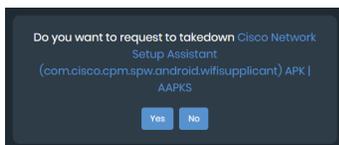
3. Click *Yes*.

Taking down rogue apps

If an app is determined to be malicious and rogue, you can initiate the takedown process in the *Rogue Mobile Apps* page.

To initiate takedown of a malicious application:

1. Go to *Brand Protection > Rogue Mobile Apps* and find the app.
2. If the application is assigned to *Unofficial*, change the application status to *Rogue*. See [Assigning application status on page 134](#).
3. Click *Takedown*. A confirmation message is displayed.



4. Click *Yes*. A tracking *Ticket* appears.
5. Go to *Brand Protection > Take Down* to review the status of the application takedown.

Exporting rogue applications

You can export details on potentially rogue mobile applications in the *Rogue Mobile Apps* page. Information included in exported file includes:

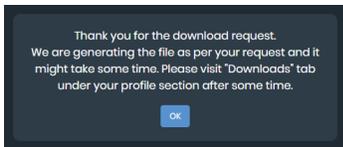
- App name and size
- Description
- Developer name and URL
- Download count and URL
- Date the app was discovered
- Listing URL
- Package name
- Source name
- Status

To export rogue application details:

1. Go to *Brand Protection > Rogue Mobile Apps*.
2. Set the desired filters. See [Filtering rogue applications on page 132](#)
3. Click *Download* icon next to the Filters title. A confirmation dialog is displayed.



4. Enter a name for the export file in the *File Name* text box.
5. Select *Generate Excel*. A confirmation message is displayed.



6. Click the menu in the top-right corner and select *Profile Settings*.
7. Go to the *Downloads* tab. The list of available downloads are displayed.
8. Click the download. A file with the name you set is downloaded to your computer in Microsoft Excel format.

Executive Monitoring

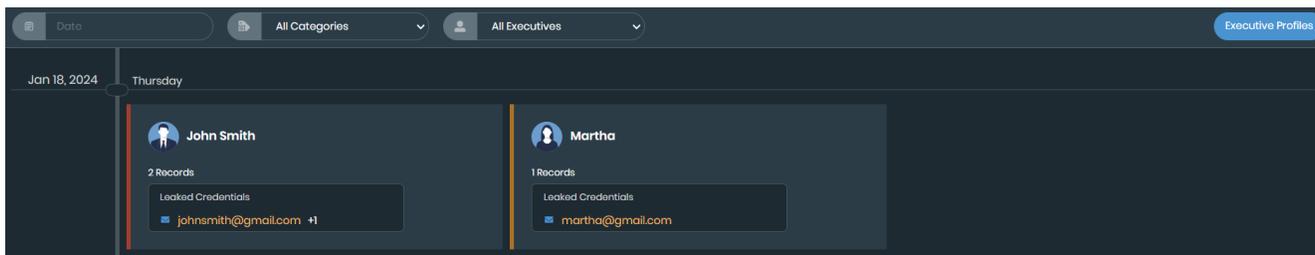
The *Brand Protection > Executive Monitoring* page provides enhanced visibility and proactive threat detection, enabling you to monitor high-profile individuals for any malicious activity, providing real-time alerts and actionable insights to mitigate potential security risks.

From the *Brand Protection > Executive Monitoring* page, you can:

- View the timeline of threats for the official executive profiles added. See [Reviewing executive profile threats on page 136](#).
- Filter the list of executive profile threats. See [Filtering executive profile threats on page 137](#).
- Add official executive profiles. See [Adding executive profiles on page 138](#).



By default, a maximum of 10 executive profiles can be added for monitoring. To monitor additional profiles, you can purchase a separate license.



Reviewing executive profile threats

You can review information about executive profile threats in the *Brand Protection > Executive Monitoring* page. Information includes comprehensive overview of identified threats categorized into various types, including leaked credentials, Telegram mentions, Dox site mentions, Darknet mentions, social media threats, stealer infections, and leaked documents.

Threat Category	Description
Leaked	Instances where the executive's credentials have been exposed or compromised.

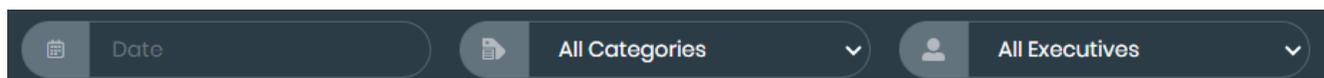
Threat Category	Description
Credentials	
Telegram Mentions	References or discussions related to the executive on the Telegram messaging platform.
Dox Site Mentions	Mentions or references of the executive on websites known for sharing personal or private information.
Darknet Mentions	References or discussions related to the executive on the darknet.
Social Media Threats	Threats posed to the executive's security or reputation on social media platforms (<i>LinkedIn, Facebook, Instagram and Twitter</i>).
Stealer Infections	Indications of malware or malicious software infecting the executive's devices with the intent of stealing sensitive information.
Leaked Documents	Instances where documents or files associated with the executive have been leaked or made publicly accessible without authorization

To review executive profile threats:

1. Go to *Brand Protection > Executive Monitoring*.
2. Select the desired report.
3. Review the identified threats.

Filtering executive profile threats

You can filter threats by date, threat category, or executive profile.



To filter domain threats:

1. Go to *Brand Protection > Executive Monitoring*
2. Filter threats by a date range:
 - a. Click *Date* . Two calendars are displayed.
 - b. In the left calendar, select a month, year, and day to specify the start date of the range.
 - c. Select a month, year, and day to specify the end date of the range. Only threats from the date range are displayed.
 - d. Click the *Date* box, and click *X* to remove the date range filter.
3. Filter by threat category:
 - Click *All Categories* and select the desired category from the dropdown, to filter threats by their categories.

4. Filter by executive profiles:
 - Click *All Executives* and select the desired profile from the dropdown, to filter threats by profile.

Adding executive profiles

You can add official executive profiles of your organization from *Brand Protection > Executive Monitoring* page.

To add official profiles:

1. Go to *Brand Protection > Executive Monitoring*.
2. Click *Executive Profiles* on the top right corner.
3. Click *+Add Profiles*.
4. Provide the required information, including:
 - a. *Executive Name* - Enter the name of the high-profile individual.
 - b. *Primary Email ID* - Enter the main email address associated with the executive.
 - c. *Alternative Email ID* - Enter an additional email address.
 - d. *Phone Number* - Enter the contact number.
 - e. *System Name* - Enter the system and user name.
 - f. *Executive Social Links* - Enter the social media profile links. Select the social media platform by clicking the social media icon and selecting desired platform. Click + icon to add more than one social media profile link.
 - g. *Role* - Enter the role of the executive.
 - h. *Avatar* - Choose the avatar from the available options.

5. Click *Submit*.

Create Executive Profile

Executive Name*

Primary Email ID*

Alternative Email ID +

Phone Number +

System Info

+

Executive Social Links  <https://www.facebook.com/> +

Role

Avatar

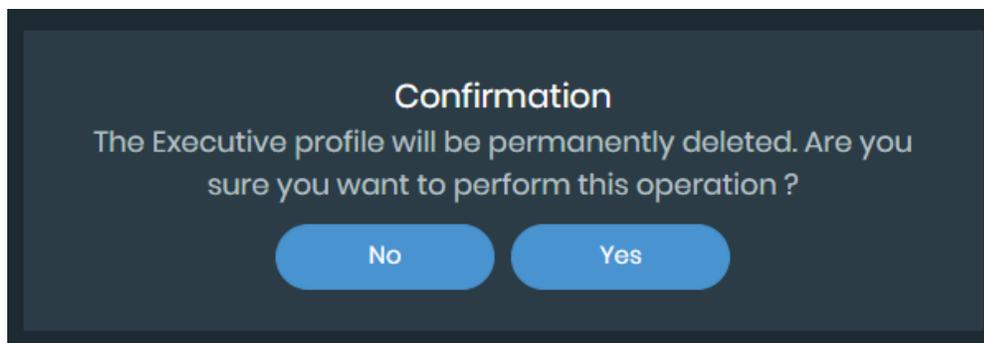
Male  Female 

To edit a executive profile:

1. Go to *Brand Protection > Executive Monitoring*.
2. Click *Executive Profiles* on the top right corner.
3. Click Edit icon on the desired executive profile.
4. Make the necessary changes and click *Submit*.

To delete a executive profile:

1. Go to *Brand Protection > Executive Monitoring*.
2. Click *Executive Profiles* on the top right corner.
3. Click Delete icon on the desired executive profile.
4. A confirmation message is displayed. Click *Yes*.



Code Repo Exposure

The *Code Repo Exposure* page displays a list of attributes that have been exposed in code repositories.

From the *Brand Protection > Code Repo Exposure* page, you can:

- Add or delete custom keywords. See [Managing keywords](#).
- Review attribute information. See [Reviewing attributes on page 142](#).
- Take action against the discovered attributes. See [Managing attributes on page 142](#).
- Filter attributes. See [Filtering attributes on page 143](#).

Managing keywords

You can add a custom rule to match keywords against the discovered domains, sub domains and IPs.

To add a keyword rule:

1. Go to *Brand Protection > Code Repo Exposure*.
2. Click *Keyword Watchlist*.
3. Click + icon.
4. In the *Add Keywords* pop-up, enter the following information and click *Add*.
 - a. *Rule Name*: Enter a name for the rule.
 - b. *Entity*: Select the type of entity.
 - c. *Entity Value*: Based on the entity type selected, you can either enter entity values or select the required entities from the *Select from Asset List*. The *Select from Asset List* contains a list of assets discovered by the EASM module. You can add multiple entities separated by a comma or by adding each entity in a new line.
 - d. *Keywords*: Enter the required keywords. You can add multiple keywords separated by a comma or by adding each keyword in a new line.

- e. **Severity:** Select the severity level from the dropdown.



You can only add multiple keywords with a single entity, or vice versa. You cannot add both multiple keywords and multiple entities together.

Add Keywords

Rule Name

Entity Domain SubDomain IP

[Select form Asset List](#)

Entity Value

Keywords

Severity ▼

Cancel
Save

To delete a keyword rule:

1. Go to *Brand Protection > Code Repo Exposure*.
2. Click *Keyword Watchlist*.
3. Optionally, search for the specific keyword using the search bar.
4. Click *Delete* icon next to the desired keyword rule.
5. To bulk delete all the rules, select the checkbox in the header. Once all the keywords are selected, click *Delete* icon next to search bar.

← Back Code Repo Exposure > Keyword Watchlist

Search + 🗑️

<input checked="" type="checkbox"/> Rule Name	Entity Type	Entity Value	Keywords	Severity	Created Date	Actions
<input checked="" type="checkbox"/> High_Severity	Domain	acmedemo.com	API key,Credit Card,+1	High	Jun 26, 2024	✎ 🗑️

To edit a keyword rule:

1. Go to *Brand Protection > Code Repo Exposure*.
2. Click *Keyword Watchlist*.
3. Optionally, search for the specific keyword using the search bar.

4. Click *Edit* icon next to the desired keyword rule.
5. Update the details and click *Update*. You can update *Rule Name* and *Severity* fields only.

Reviewing attributes

You can review information about exposed code attributes in the *Brand Protection > Code Repo Exposure* page. Information displayed about discovered exposed code includes:

- Attributes and values
- Matched domains identified with the exposure
- Files discovered with raw information about the exposure
- Discovery date
- Risk status

To review exposed attributes:

1. Go to *Brand Protection > Code Repo Exposure*.
2. Review the high level attribute information:
 - Review the risk level and total number of the alerts in the *Alert Summary*.
 - Review the attribute types in *Top 5 Attributes*.
3. Select an alert to view the attribute type, domain, repository name and files discovered.
4. Click *Files* to view the list of files discovered. Click *Link* icon next to the file name to view the file. Click *View* to view the raw information.



Managing attributes

You can interact with discovered exposed code, such as marking the attribute as resolved or ignored, or adding a comment to the attribute history. Archived attributes can be viewed by selecting *Show Archived*.

To manage an attribute:

1. Go to *Brand Protection > Code Repo Exposure*.
2. Find the attribute you want to adjust.
3. Change the status:
 - Select *Action > Mark as Resolved* to indicate that the exposed code risk has been resolved.
 - Select *Action > Mark as False Positive* if the discovered code is not a risk.
 - Select *Action > Mark as Ignored* to indicate that the identified exposure can be ignored.
4. Click *Comment* to add a comment to the attribute history.

To manage multiple attributes at once:

1. Go to *Brand Protection > Code Repo Exposure*.
2. Select the attributes you want to adjust. The *Action* dropdown menu is displayed.
3. Adjust the status or comment history of all of the attributes:
 - Select *Action > Mark as Resolved* to indicate that the exposed code risk has been resolved for all of the selected attributes.
 - Select *Action > Mark as False Positive* if the discovered code is not a risk.
 - Select *Action > Mark as Ignored* to indicate that the identified exposures can be ignored.

Filtering attributes

You can filter attributes by date, status, risk level, or attribute.

To filter attributes:

1. Go to *Brand Protection > Code Repo Exposure*
2. Filter attributes by a date range:
 - a. Click *Filter By Date Range*. Two calendars are displayed.
 - b. In the left calendar, select a month, year, and day to specify the start date of the range.
 - c. Select a month, year, and day to specify the end date of the range.
Only attributes from the date range are displayed.
 - d. Click the *Filter By Date Range* box, and click *X* to remove the date range filter.
3. Search for keywords:
 - a. In the *Type and hit Enter to Search* box, type a keyword, and press *Enter*.
The attributes are filtered to display only attributes with the keyword.
 - b. Click the *X* beside the keyword to remove the filter.
4. Filter by status in the *By Actions* section:
 - Select *Active*, *Resolved*, or *Ignored* to filter attributes by their assigned status.
5. Filter by risk level in the *By Risk Level* section:
 - Select *High*, *Medium*, or *Low* to filter by risk level.
6. Select the domain from the *By Matched Domain* section.
7. Select the keyword rule from the *By Rule* section.
8. Select the attribute type in the *By Attributes* section to filter by type.
The attributes with the matching filters are displayed.

Open Bucket Exposure

The *Open Bucket Exposure* page displays a list of files exposed in open buckets.

From the *Brand Protection > Open Bucket Exposure* page, you can:

- Review files exposed on open buckets. See [Reviewing files on page 144](#).
- Take action against discovered files. See [Managing files on page 144](#).

- Filter files. See [Filtering files on page 145](#).

Reviewing files

You can review information about exposed files in the *Brand Protection > Open Bucket Exposure* page. Information displayed about discovered exposed files includes:

- File name
- File type
- Bucket source
- Bucket name
- Discovery date
- File accessibility

To review exposed attributes:

1. Go to *Brand Protection > Open Bucket Exposure*.
2. Review the high level file information:
 - Review the distribution of bucket sources and the total number of discovered files in the *Alert Summary*.
 - Review the distribution of file types in *Top 5 File Types*.
3. Select a file to review detailed file information.

Managing files

You can interact with discovered exposed files, such as marking the files as resolved or ignored, or adding a comment to the attribute history. Archived files can be viewed by selecting *Show Archived*.

To manage a file:

1. Go to *Brand Protection > Open Bucket Exposure*
2. Find the file you want to adjust.
3. Change the status:
 - Select *Action > Mark as Resolved* to indicate that the exposed risk has been resolved.
 - Select *Action > Mark as Ignored* to indicate that the identified exposure can be ignored.
4. Click *Comment* to add a comment to the file history.

To manage multiple files at once:

1. Go to *Brand Protection > Open Bucket Exposure*
2. Select the files you want to adjust. The *Action* dropdown menu is displayed.
3. Adjust the status or comment history of all of the file:
 - Select *Action > Mark as Resolved* to indicate that the exposure risk has been resolved for all of the selected files.
 - Select *Action > Mark as Ignored* to indicate that the identified exposures can be ignored.
 - Click *Action > Comment* to add a global comment to the file history of the selected files.

Filtering files

You can filter files by date, status, risk level, or attribute.

To filter files:

1. Go to *Brand Protection > Open Bucket Exposure*
2. Filter files by a date range:
 - a. Click *Filter By Date Range*. Two calendars are displayed.
 - b. In the left calendar, select a month, year, and day to specify the start date of the range.
 - c. Select a month, year, and day to specify the end date of the range.
Only files from the date range are displayed.
 - d. Click the *Filter By Date Range* box, and click *X* to remove the date range filter.
3. Search for keywords:
 - a. In the *Type and hit Enter to Search* box, type a keyword, and press *Enter*.
The files are filtered to display only files with the keyword.
 - b. Click the *X* beside the keyword to remove the filter.
4. Filter by status in the *By Actions* section:
 - Select *Active*, *Resolved*, or *Ignored* to filter files by their assigned status.
5. Filter by accessibility in the *By File Status* section.
6. Select the open bucket source from the *By Bucket* section.
7. Select the file type in the *By File Type* section.
The files with the matching filters are displayed.

Take Down

The FortiRecon team uses a proprietary Digital Millennium Copyright Act (DMCA) process to execute the takedown. During the takedown process, notices are sent to the offending parties, hosting providers, and registrars with provisions of local and international laws to demand that the account be taken down on account of impersonation, phishing, and so on.

You can review the current status of takedown requests in the *Brand Protection > Take Down* page. The *Summary* widget displays the total count of takedown requests, along with a count for each category. The *Status* widget displays the count of takedown requests for each status.



FortiRecon team strives to action takedowns as quickly as possible. However, successful takedowns depend on the response of hosting providers and domain registrars.

- For domain threats, the team will continuously follow up with relevant parties for 7 days. If there is no response, the takedown request will be closed as unsuccessful, and takedown credits will be reversed.
- For social media takedowns, the team will continuously follow up with social media platforms for 15 days. If there is no response, the takedown request will be closed as unsuccessful, and takedown credits will be reversed.



From the *Brand Protection > Take Down* page, you can:

- Create and manage Authority Letters. See [Authority Letters](#).
- View the current status of the takedown requests and provide additional information if required. See [Reviewing takedown requests](#).
- Filter for specific takedown requests by date, category, status, and ticket number. See [Filtering takedown requests on page 150](#).

Authority Letters

An Authority Letter is a legal document that grants FortiRecon the authorization to initiate takedown requests on your behalf. This letter is a mandatory component of the takedown process, demonstrating your ownership of intellectual property and your right to request the removal of infringing content.

- [Creating Authoring Letters](#)
- [Uploading the Signed Authority Letter](#)
- [Viewing Authority Letter Status](#)

Creating Authoring Letters

Perform the following steps to create a new Authority Letter. Click *Save as Draft* anytime during authority letter creation to save the draft and continue later.

1. Navigate to *Brand Protection > Take Down*.
2. Click *Authority Letters*.
3. In the *Authority Letters* page, click *+ Add*.
4. In the *Client Profile* page enter the following information and click *Next*.
 - *Document Name*: Name for the document.
 - *Organization Name*: Your organization's name.
 - *Start & End Date*: Start and end dates for the Authority Letter's validity. The subscription dates are pre-filled by default.
 - *Authorized User Name*: Name of the person authorized to initiate take down requests.

- **Designation:** Designation of the person authorized to initiate take down requests.

Client Profile

Document Name Domain Threat Authority Letter

Organisation Name Demo

Start & End Date Apr 01, 2022 - Dec 31, 2030

Authorised User Name John

Designation Security Administrator

1 Client Profile
Client Information

2 Company Details
Group entities covered Under Letter of Authority

3 Trademark Portfolio
Trademarks covered Under Letter of Authority

Cancel Save As Draft Next

5. In the *Company Details Overview* page, click + *Add Company* to add a new company and enter the following details.

- Company Name
- Primary Website
- (Optional) Registered Postal Address

Add Company

Company Name* Demo_Company

Primary Website* https://www.demo_website.com

Registered Postal Address

Cancel Save

6. Click *Save*. The added company is listed. Click *Edit* under *Actions* to edit the company details or *Delete* to delete the added company.

7. Click *Next*.

8. In the *Trademark Portfolio Management* page, click + *Add Trademark* to add trademark details and enter the following information for each trademark.

- Trademark holder's name.
- Postal Address
- Country
- Trademarked Word
- Trademarked Symbol
- Registration Number
- Trademark Class
- Registration Office

Add Trademark

Name* demo

Postal Address

Trademark Holder's Postal Address

Country India

Trademarked Word FortiRecon

Trademarked Symbol Choose file to select Browse

Registration Number 2345245

Trademark Class Class I

Cancel Save

9. Select *Yes* if you have direct link to trademark search page and enter the trademark URL. Else, select *No* and upload the proof of trademark.

Do you have direct link to trademark search page?

No Yes

Url* Trademark

10. Click *Save*. The added trademark is listed. Click *Edit* under *Actions* to edit the trademark details or *Delete* to delete the added trademark.

11. Click *Save*.

Uploading the Signed Authority Letter

Once a new Authority Letter is created, you will receive an email containing *Authority Letter Template* in Word format and detailed instructions for completing and signing the Authority Letter. You can also download the *Authority Letter Template* from *Authority Letters* page in *Brand Protection > Take Down*.

To upload the signed Authority Letter, perform the following steps.

1. Follow the instructions in the email to sign the Authority Letter.
2. In FortiRecon portal, navigate to *Brand Protection > Take Down*.
3. Click *Authority Letters*.
4. Locate the relevant Authority Letter and click *Upload Signed Authority Letter*.



5. Browse and upload the signed Authority Letter.

The uploaded Authority Letter will undergo an internal validation process. Any required changes or additional information will be communicated through comments in the FortiRecon portal and email alerts.

Viewing Authority Letter Status

The following status is displayed for Authority Letters.

- *Draft* : The Authority Letter is saved as draft. Click *Actions > Edit* to continue Authority Letter creation.
- *In Progress*: The Authority Letter has been created successfully. You can still make edits or delete it if needed.
- *In Review*: The signed Authority Letter has been uploaded and is being checked for validity.
- *Rejected*: There are issues with the Authority Letter. Check the comments for details. You can edit and re-upload the letter, or delete it.
- *Expired*: The Authority Letter's validity period has ended.

Reviewing takedown requests

You can review information about takedown requests in the *Brand Protection > Takedowns* page. Each request includes the following information.

- Name
- Request ID
- Type
- Requested By
- Request Date
- Latest Comment
- Current Status

Click *Past Comments* to view all previous comments. Click *Add Comments* (if available) to add comments and upload supporting documents when requested by the FortiRecon team.

checkfilesincomment | BM-TKT-30EIC2384025

Approved

SocialMediaThreat | Requested By: | Oct 28, 2024 12:46 PM

We are waiting for your response on this Takedown request. Please provide proofs.

Regards, FortiRecon Takedown Team | [Past Comments](#) | [Add Comment](#)

Filtering takedown requests

You can filter the takedown requests or search for specific *Ticket* numbers on the *Take Down* page.

To filter requests by category and status:

1. Go to *Brand Protection* > *Take Down*.
2. Filter requests by a date range:
 - a. Click *Filter By Date Range*. Two calendars are displayed.
 - b. In the left calendar, select a month, year, and day to specify the start date of the range.
 - c. In the right calendar, select a month, year, and day to specify the end date of the range.
Only requests from the date range are displayed.
 - d. Click the *Filter By Date Range* box, and click *X* to remove the date range filter.
3. Search for keywords:
 - a. In the *Type and hit Enter to Search* box, type a *Ticket* number, and press *Enter*.
The requests are filtered to display only requests with the keyword.
 - b. Click the *X* beside the keyword to remove the filter.
4. Filter by status in the *By Status* section:
 - Select *Requested*, *Acknowledged*, *Rejected*, *Approved*, *Initiated*, *Successfully Closed*, or *Unsuccessfully Closed* to filter takedown requests by their assigned status.
5. Filter by category in the *By Category* section:
 - Select *Domain Threat*, *Social Media Threat*, or *Rogue Mobile Apps* to filter takedown request by threat category.

The take down requests that match the set filters are displayed.

Adversary Centric Intelligence

The Adversary Centric Intelligence (ACI) module leverages FortiGuard Threat Analysts to provide comprehensive coverage of dark web, open source, and technical threat intelligence, including threat actor insights. This information enables administrators to proactively assess risks, respond faster to incidents, better understand their attackers, and protect assets

The *Adversary Centric Intelligence* module contains the following pages:

Dashboard	Displays a summary of your organization's risk exposure to overall global threats. See Dashboard on page 151 .
Reports	Displays the threat intelligence analyst reports and FortiAI Insights available to you. See Reports on page 155 .
Card Fraud	Displays information about credit or debit cards that are for sale on darknet marketplaces. See Card Fraud on page 160 .
Stealer Infections	Displays information about possible infected systems that are affiliated with your employees or end-users and are for sale on darknet market places. See Stealer Infections on page 162 .
OSINT - Cyber Threats	Displays OSINT-based intelligence reports about threat events. See OSINT Cyber Threats on page 168 .
Vulnerability Intelligence	Displays information on monitored CVEs. See Vulnerability Intelligence on page 172 .
Ransomware Intelligence	Displays information on total and potential ransomware incidents. See Ransomware Intelligence on page 179 .
Vendor Risk Assessment	Displays information on a vendor watchlist and the vendor's security hygiene. See Vendor Risk Assessment on page 189 .
Intelligence Collection Lookup	Displays threat intelligence from various sources to let you search for a specific posts or messages using a simple search query. See Intelligence Collection Lookup .
Investigation	Displays tabs to let you search for and investigate the reputation of an IPv4 address, domain, file hash, or CVE. See Investigation on page 200 .

Dashboard

The *Adversary Centric Intelligence > Dashboard* page provides a summary of your organization's risk exposure to global threats. From the *Adversary Centric Intelligence > Dashboard* page, you can:

- Change the date range for the dashboard content. See [Changing the dashboard date range on page 152](#).
- View your organization's risk exposure. See [Viewing risk exposure summary on page 152](#).
- View global threat reports. See [Viewing global threat report summary on page 154](#).

Changing the dashboard date range

By default, the *Adversary Centric Intelligence > Dashboard* page displays information for the last 90 days. You can change the date range.

To change the dashboard date range:

1. Go to the *Adversary Centric Intelligence > Dashboard* page.

The banner identifies the date range for the displayed information. In the following example, the date range is *From Feb 11, 2022 to May 12, 2022*.



2. From the calendar dropdown list, select a different date range.

Viewing risk exposure summary

The *Adversary Centric Intelligence > Dashboard* page displays the following widgets in the *Risk Exposure* section that summarize the risk exposure of your organization to global threats:

- Credential Exposure
- Stealer Infection
- Associated Threats
- Global Event Exposure
- Card Fraud

To view risk exposure summary:

1. Go to the *Adversary Centric Intelligence > Dashboard* page, and scroll to the *Risk Exposure* section. A summary of your organization's risk exposure is displayed.



2. Use the following widgets to review your exposure to risk:

Credential Exposure	<p>Displays the number of email addresses related to your organization's domains that are part of third-party credential breaches.</p> <p>The number of exposed credentials and the number of indexed credentials are displayed.</p>
Stealer Infection	<p>Displays data from potentially infected systems that are affiliated with your employees or end-users and are leaked or for sale on credential stealer marketplaces on the darknet.</p> <p>The total number of compromised systems along with number of leaked and on sale compromised systems are displayed.</p> <p>Hover your mouse over on the <i>Employees/Users</i> chart to view the number of affected employees and users on a specific date.</p> <p>Hover your mouse over on the <i>Compromised Systems/Stealers</i> chart to view the number of compromised systems and stealers on a specific date.</p>
Associated Threats	<p>Displays information about threats reported against your industry and geographical area.</p> <p>The number of reported threats that are specific to your industry and the number of reported threats in your geographic area are displayed.</p> <p>Click the widget to display more details on the <i>Adversary Centric Intelligence > Reports</i> page.</p>
High Relevance Reports	<p>Displays the reports that are flagged as highly relevant to your organization. Reports must meet certain criteria to be considered relevant. The newest reports are displayed at the top.</p> <p>Click a report to display more details on the <i>Adversary Centric Intelligence > Reports</i> page.</p>
Global Event Exposure	<p>Displays the latest, published intelligence reports related to notable cyber events from around the globe.</p> <p>Automatically scrolls through the reports, or click the blue bars at the bottom of the widget to view specific reports.</p>
Card Fraud	<p>Displays statistics related to credit or debit cards that are listed for sale on darknet marketplaces.</p> <p>This widget is only displayed for banking organizations that issue credit or debit cards.</p>

The number of cards for sale is displayed as well as how many of the cards are credit cards and how many are debit cards. Click the *Cards for Sale* number to display more details on the *Adversary Centric Intelligence > Card Fraud* page. Hover your mouse over the bars in the chart to view the number of card frauds on a specific date. The top card bin numbers are also displayed.

Viewing global threat report summary

The *Adversary Centric Intelligence > Dashboard* page displays the following widgets in the *Global Threats* section that summarize latest intelligence reports related to ongoing, notable, global cyber events:

- Relevance
- Categories
- Motivational Tags
- Latest Intelligence
- Actively Exploited CVEs
- Top Actors
- Notable Category Reporting

To view global threat report summary:

1. Go to the *Adversary Centric Intelligence > Dashboard* page, and scroll to the *Global Threats* section. The number of global threat reports is displayed as well as several widgets.



2. Use the following widgets to review the global threat intelligence reports:

<p>Relevance</p>	<p>Displays the number of reports that are relevant to your organization and are rated high, medium, or low risk. Reports must meet certain criteria to be considered high, medium, or low risk.</p> <p>Click the widget to display more details on the <i>Adversary Centric Intelligence > Reports</i> page.</p>
<p>Categories</p>	<p>Displays the number of reports for each category, such as Darknet, TechINT, OSINT, and HUMINT.</p>

	Click a category to display more details on the <i>Adversary Centric Intelligence > Reports</i> page.
Motivational Tags	Displays the available motivational tag filters for reports. Click a tag to display the <i>Adversary Centric Intelligence > Reports</i> page filtered on the tag.
Latest Intelligence	Displays the latest, published intelligence reports organized into the following categories: <ul style="list-style-type: none"> • Flash Alert • Flash Report • Threat Alert • Threat Report Automatically scrolls through the reports, or you can click the blue bars at the bottom of the widget to view specific reports.
Actively Exploited CVEs	Displays the number of currently and previously exploited CVEs and identifies a list of newly exploited CVEs. Click the widget to display more details on the <i>Adversary Centric Intelligence > Investigation</i> page.
Top Actors	Displays the number of actors being tracked as well as the number of reports on the actors. Displays a summary of top actors. Click the name of a top actor to display more details on the <i>Adversary Centric Intelligence > Reports</i> page.
Notable Category Reporting	Click a report to display more details on the <i>Adversary Centric Intelligence > Reports</i> page.

Reports

The *Adversary Centric Intelligence > Reports* page provides a centralized location to access and analyze various threat intelligence reports. These reports, categorized as Curated Analyst, FortiAI Insights, and Automated, offer valuable insights into emerging threats and trends. *Analyst Curated Reports* are reports by our expert threat analysts, while *Automated Reports* are sourced from external feeds. *FortiAI Insights*, powered by Fortinet's AI technology, provide advanced threat intelligence and analysis capabilities.

Additionally, the integrated *FortiAI Assistant* enables you to ask questions about cybersecurity trends and get AI-powered summaries of reports.

From the *Adversary Centric Intelligence > Reports* page, you can:

- Use FortiAI Assistant to query cybersecurity trends and insights, and to summarize reports. See [Using FortiAI Assistant](#)
- View the details of each report. See [Viewing reports on page 157](#).
- Apply filters to the list of reports to hone in on specific reports. See [Filtering reports on page 159](#).
- Share reports. See [Sharing reports on page 160](#).

The screenshot displays the 'Reports' section of the FortiAI Assistant interface. At the top, there are three main statistics: 17.66K Analyst Curated Reports, 4.92K AI Generated Reports (Beta), and 2.29K Automated Reports. Below these are category-specific counts: Darknet (11.89K), OSINT (6.12K), Technical Intelligence (4.81K), HUMINT (1.44K), and FortiGuard Research (610). The main section is titled 'Latest High Relevance Reports' with a link to 'View all reports [24.88K]'. Three reports are listed:

- 1 Threat Alert** (ID: 2020072074677) - Analyst Curated Reports from Darknet | Exploit Forum. Summary: Actor 'ronny' is seeking to buy customer accounts of 3 major Australian banks. Published Date: Mar 17, 2025; Information Date: Jul 20, 2020.
- 2 Flash Report** (ID: 2020080160469) - Analyst Curated Reports from OSINT | Volon Research. Summary: Possible recruitment scam identified targeting 'ACME Demo' job-seekers. Published Date: Mar 17, 2025; Information Date: Jul 24, 2020.
- 3 Flash Report** (ID: 2020080126121) - Analyst Curated Reports from OSINT | Consumer Complaint Forum. Summary: Alleged actor 'Shyam Lal mandal' identified targeting 'ACME Demo' job-seekers with wire transfer fraud. Published Date: Mar 17, 2025; Information Date: Nov 12, 2019.

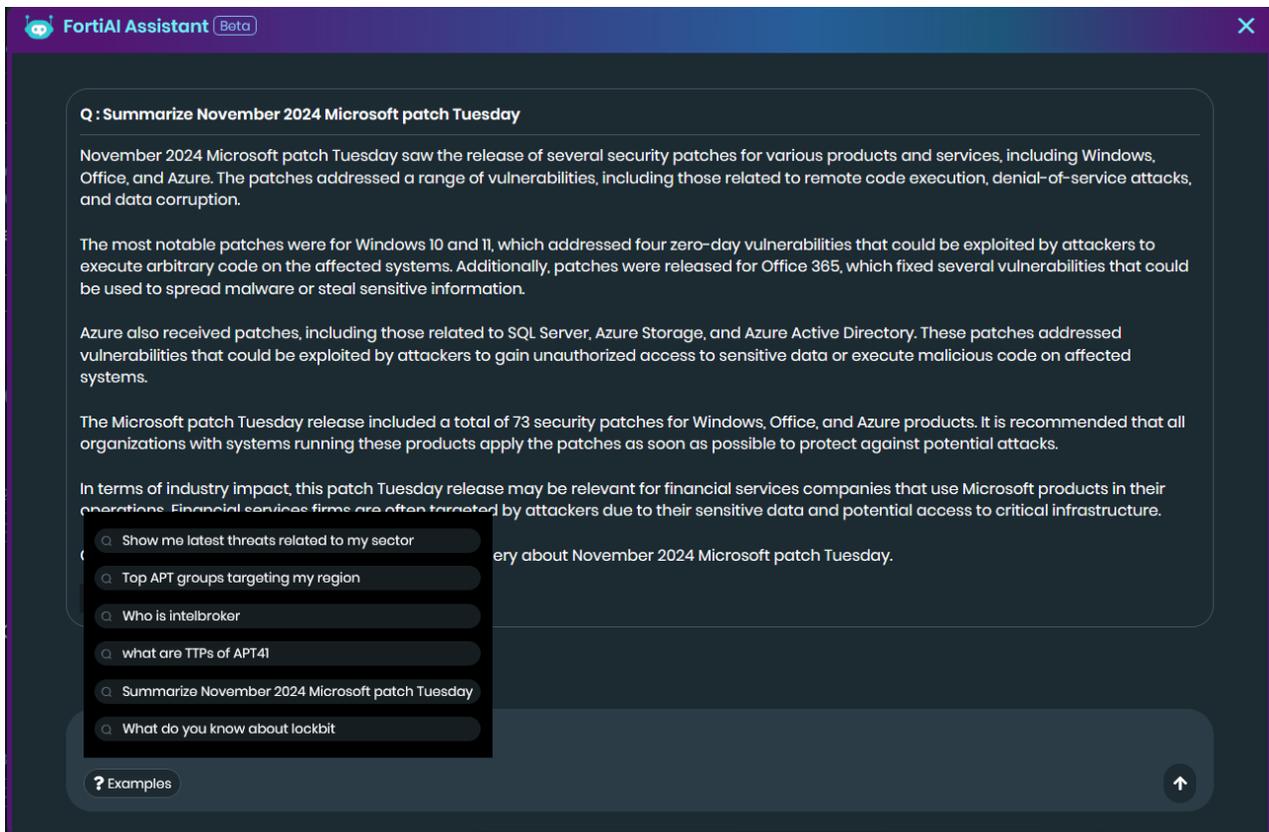
Using FortiAI Assistant

FortiAI Assistant is an Artificial Intelligence(AI) powered tool that provides valuable insights into cybersecurity trends and threats. It can also summarize complex reports, making key information more easily understandable.

FortiAI Assistant analyzes reports published within the last year (or a custom date range) and provides a concise summary. You can interact with the assistant by submitting custom queries. The assistant processes these queries and presents a summarized response. Due to the dynamic nature of AI-generated content, the structure of these responses may vary. To get started, several pre-built sample queries are provided. You can also view the cited reports used to generate each summary for deeper analysis.

To use FortiAI Assistant:

1. Go to *Adversary Centric Intelligence > Reports* .
2. In the *FortiAI Assistant* text box, type your query. Following are examples of queries.
 - *AI-driven phishing attack trends in the financial sector 2024*
 - *AI applications in detecting supply chain cyber threats across industries 2024*
 - *Impact of machine learning on email fraud prevention in the banking sector 2024*
 - *AI advancements in cybersecurity for protecting financial institutions from phishing*



3. Additionally, you can leverage FortiAI Assistant to summarize reports:
 - Click Summarize on High Relevance reports to view the summary.
 - The report page contains the FortiAI Summary in the Full Report section.

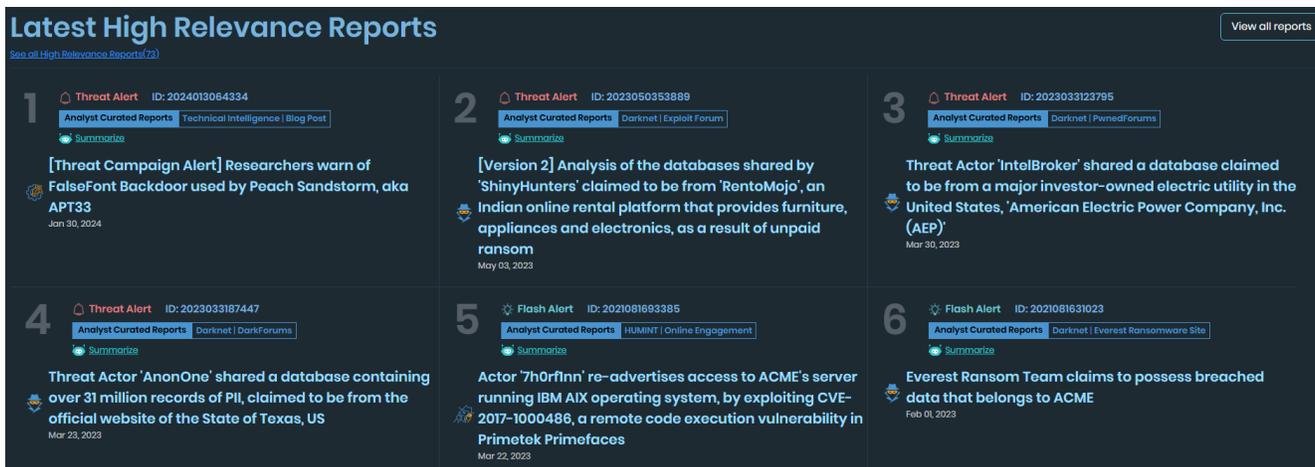
Viewing reports

The *Adversary Centric Intelligence > Reports* page displays a list of threat intelligence reports. By default, the top six high-relevance reports are shown.

You can filter the list of reports, and search the list of reports using a keyword. See [Filtering reports on page 159](#).

To view high relevance reports:

1. Go to *Adversary Centric Intelligence > Reports* .
2. The top six high-relevance reports are displayed, if available.
3. Click a report title to view its details in the right pane.
4. Click *See all High Relevance Reports*. All high-relevance reports will be displayed.

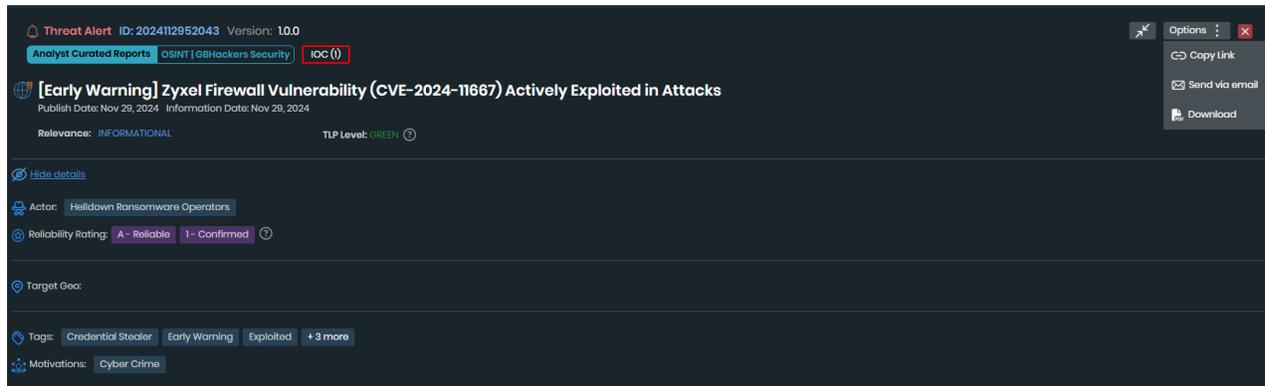


To view all reports:

1. Go to *Adversary Centric Intelligence > Reports*.
2. Click *View All Reports*. All available reports will be displayed.
3. Click a report title to display the report details in right pane.

Once you open a report, its details are displayed in the right pane. From here, you can:

- Click the help icon next to the *TLP Level* to view definitions of the different TLPs and rules around sharing the information.
- Click the help icon next to the *Reliability Rating* to view how ratings are assigned.
- Click the *Options* menu and select *Download* to download a PDF of the report.
- Click the *Options* menu and select *Copy Link* to copy a link to the report. You can then share this link with another user who has a FortiRecon account. Alternatively, you can select *Send via Email* to share the link directly via email.



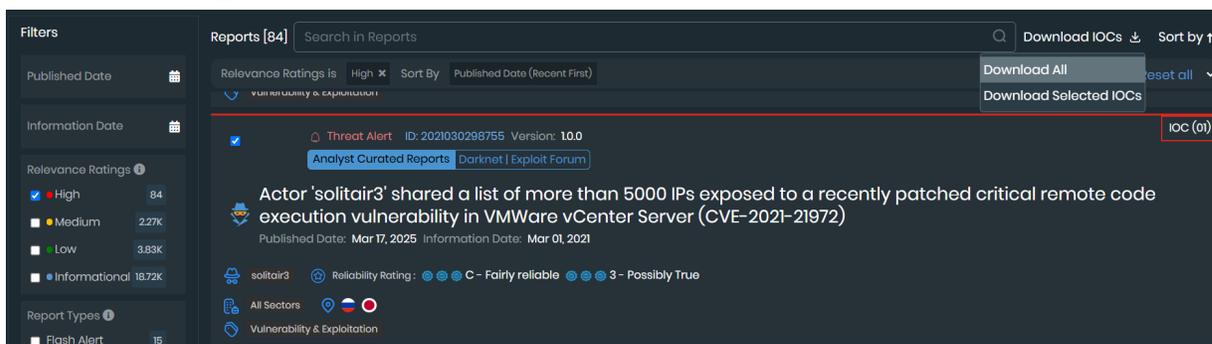
The following information is displayed for each report.

- *Full Report*: The detailed report, including a FortiAI summary.
- *Data Attributes*: Identified data attributes, such as CVEs and URLs.
- *Observables*: A list of indicators of compromise (IOCs). Click **Download** to download the IOCs in Microsoft Excel format.

When the report includes indicators of compromise (IOCs), you can download the IOCs in Microsoft Excel format.

To bulk download IOCs:

- a. Select the reports containing the IOCs you want to download.
- b. Locate the **Download IOCs** button, which appears next to the search bar.
- c. Click the **Download IOCs** button.
 - If the total number of IOCs from your selected reports is less than 200, a menu appears. Choose either **Download All** to get all IOCs from the selected reports or **Download Selected IOCs** if you've specifically chosen individual IOCs within those reports. The file will download directly to your computer.
 - If the total number of IOCs is greater than 10,000, FortiRecon initiates the download process in the background. You can monitor the progress and download the completed file from the **Profile Settings > Downloads** page.



Filtering reports

Reports can be filtered by date range, keywords, categories of filters, and relevance to your organization.

To filter reports:

1. Go to *Adversary Centric Intelligence > Reports*.
2. Filter reports by a date range:
 - a. Click *Published Date* or *Information Date*.
 - b. Select quick filters or click *Custom range*.
 - c. In the left calendar, select a month, year, and day to specify the start date of the range.
 - d. In the right calendar, select a month, year, and day to specify the end date of the range. Only reports from the date range are displayed.
 - e. Click X to remove the date range filter.
3. Filter using quick filters. Click the *Analyst Curated Reports*, *Automated Reports*, or *AI Insight* widget to filter the data. You can combine multiple filters. Additionally, you can quickly filter the data using category filters.
4. Search for keywords:
 - a. In the *Search in Reports* box, type a keyword, and press *Enter*. The reports are filtered to display only reports with the keyword.
 - b. Click the X beside the keyword to remove the filter.
5. In *Filters* section on the left pane, select one or more filters. The following filters are available:
 - *Relevance Ratings*
 - *Report Origin*
 - *Report Types*

- *Categories*
 - *Source Reliability*
 - *Information Reliability*
 - *Industries*
 - *Geographies*
 - *Threat Types*
 - *Threat Actors*
 - *Motivation*
 - *Tags*
6. To clear all the selected filters click *Reset all*.
 7. Under *Report Type > Relevance*, click *High*, *Medium*, and/or *Low* to enable the filters, and clear the filters to disable them.

Sharing reports

You can share reports by using a link or an email.

To share a report:

1. Go to *Adversary Centric Intelligence > Reports*.
2. Click a report to display its details.
3.
 - a. Click *Options* and select how you would like to share the link:
 - i. Click *Copy Link* to share the link in a format of your choice.
The link is copied to your computer clipboard, and you can paste it into a message as needed.
 - ii. Click *Send via Email* to email the link.
Your personal email opens with a draft that includes the report link.

Card Fraud



The *Adversary Centric Intelligence > Card Fraud* page widget is only displayed for banking organizations that issue credit or debit cards.

The *Adversary Centric Intelligence > Card Fraud* page displays information about credit or debit cards that are for sale on darknet marketplaces. From the *Card Fraud* page, you can:

- View a summary of the total number of leaked cards as well as information about each leaked card. See [Viewing leaked card information on page 161](#).
- Filter the information. See [Filtering leaked card information on page 161](#).
- Download the list of leaked cards to Microsoft Excel format. See [Exporting a list of leaked cards on page 162](#).

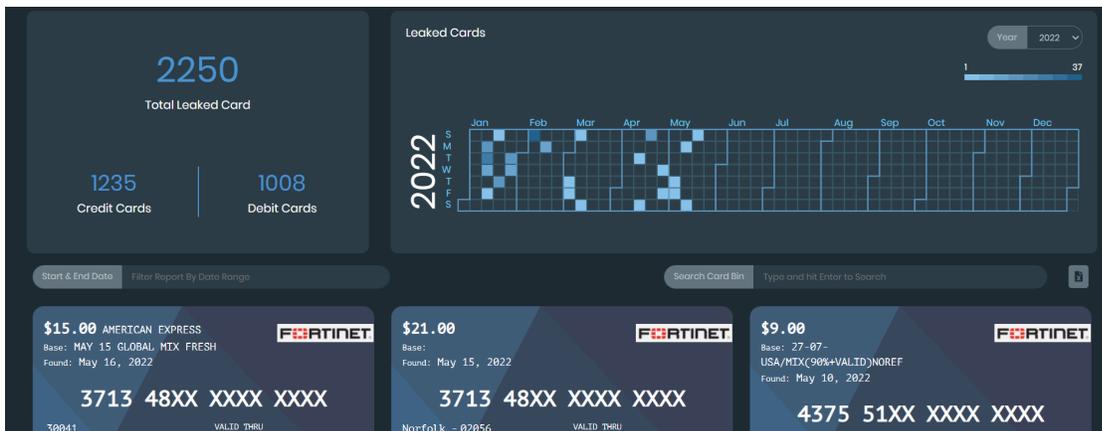
Viewing leaked card information

The *Adversary Centric Intelligence > Card Fraud* page displays information about the number of leaked cards as well as details about the leaked cards for a specific date range.

To view leaked card information:

1. Go to *Adversary Centric Intelligence > Card Fraud*. The *Card Fraud* page is displayed.

The *Total Leaked Card*, *Credit Cards*, and *Debit Cards* numbers are for the default date range. Details about the leaked cards are displayed below.



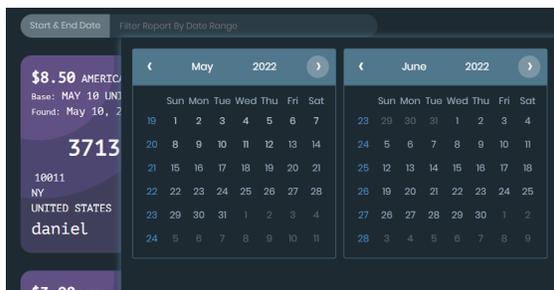
2. You can filter the displayed information. See [Filtering leaked card information on page 161](#).

Filtering leaked card information

You can filter information about leaked cards by year, date range, and bank identification number (BIN).

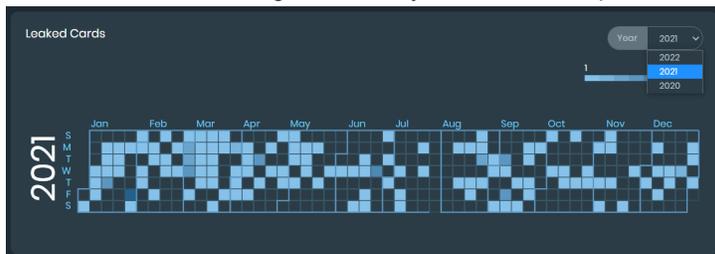
To filter leaked card information:

1. Go to *Adversary Centric Intelligence > Card Fraud*.
2. Filter reports by a date range:
 - a. Click *Filter Report by Date Range*. Two calendars are displayed.



- b. In the left calendar, select a month, year, and day to specify the start date of the range.
- c. In the right calendar, select a month, year, and day to specify the end date of the range. Only reports from the date range are displayed.

- d. Click the *Filter Report by Date Range* box, and click *X* to remove the date range filter.
3. Filter by year:
 - a. In the *Leaked Cards* widget, select a year from the dropdown list.



4. Filter by card BIN:
 - a. In the *Search Card Bin* box, type a BIN, and press *Enter*.

Exporting a list of leaked cards

You can download the list of leaked cards to a Microsoft Excel file.

To export leaked cards:

1. Go to *Adversary Centric Intelligence > Card Fraud*.
2. Beside the *Search Card Bin* box, click the *Export Leaked Cards* button.

The *Leaked Card.xlsx* file is downloaded.

3. Open the file in Microsoft Excel.

Stealer Infections

The *Adversary Centric Intelligence > Stealer Infection* page includes information about possible infected systems that are affiliated with your employees or end-users that are listed for sale on credential stealer darknet marketplaces. The compromised system information is organized into two tabs:

1. **Leaked** - The *Compromised Systems(Leaked)* tab displays the stolen data that has been shared over Darknet forums, Telegram channels, Tor sites or any other medium where the threat actor operates. See [Viewing leaked compromised systems](#).
2. **On Sale** - The *Compromised Systems(On Sale)* tab displays the stolen data that is currently being offered for sale on various Darknet marketplaces. See [Viewing on sale compromised systems](#).

On the *Stealer Infection* page, you can:

- Filter stealer infection information. See [Filtering stealer infection information on page 165](#).
- Export market place data. See [Exporting stealer infections data on page 167](#).

Viewing leaked compromised systems

The *Adversary Centric Intelligence > Stealer Infections > Compromised Systems(Leaked)* page displays information about possible infected systems that are affiliated with your employees or end-users that has been shared over Darknet forums, Telegram channels, Tor sites or any other medium where the threat actor operates.

To view leaked compromised systems information:

1. Go to *Adversary Centric Intelligence > Stealer Infections > Compromised Systems(Leaked)*.
2. Use the following widgets to review information about leaked compromised systems:

Total Compromised Systems (Leaked) affiliated with <organization name>	Displays the total number of compromised systems leaked affiliated with your organization. The calendar displays a summary of the leaked stealer events in the selected calendar year. Colored blocked indicate a stealer event. Light colors blocks indicate few affected credentials, and dark colored blocks indicate many affected credentials. Hover your mouse over each block to view the discovery date and the number of affected credentials.
Compromised Systems	Displays the total number of compromised systems including affected employees and end-users count.
No of Stealers Found	Displays the number of stealers found and the names of the stealers.
Latest Record	Displays the latest number of stealer events and the date that the event was discovered.
Employee	Displays a list of affected employees information.
Users	Displays a list of affected end-users information.



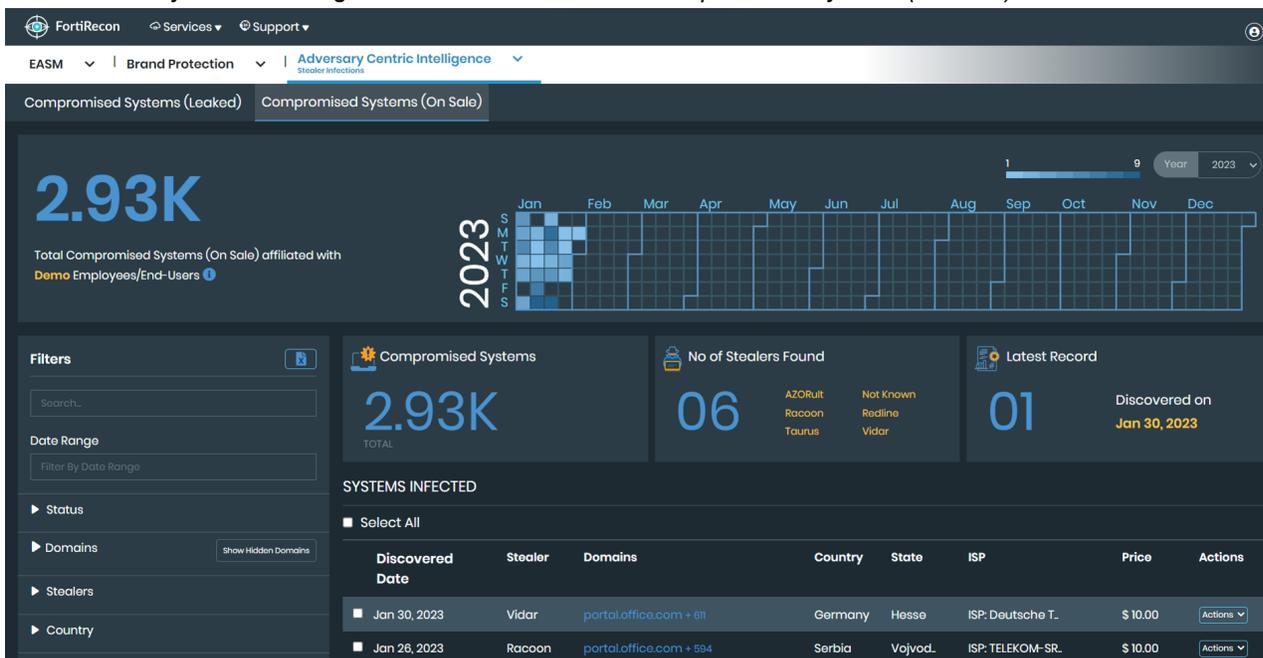
- The values in all widgets are updated based on the filters applied, except for *Total Compromised Systems(Leaked) affiliated with <organization name>* value.
- Only an administrator can view leaked passwords. Click the view icon to reveal the masked password.

Viewing on sale compromised systems

The *Adversary Centric Intelligence > Stealer Infections > Compromised Systems(On Sale)* page displays information about possible infected systems that are affiliated with your employees or end-users and are for sale on darknet market places.

To view on sale compromised systems information:

1. Go to *Adversary Centric Intelligence > Stealer Infections > Compromised Systems(On Sale)*.



2. Use the following widgets to review information about on sale compromised systems:

Total Compromised Systems (On Sale) affiliated with <organization name>	Displays the total number of compromised systems on sale affiliated with your organization. The calendar displays a summary of the on sale stealer events in the selected calendar year. Colored blocked indicate a stealer event. Light colors blocks indicate few affected credentials, and dark colored blocks indicate many affected credentials. Hover your mouse over each block to view the discovery date and the number of affected credentials.
Compromised Systems	Displays the total number of compromised systems.
No of Stealers Found	Displays the number of stealers found and the names of the stealers.
Latest Record	Displays the latest number of stealer events and the date that the event was discovered.
Systems Infected	Displays a list of infected systems.



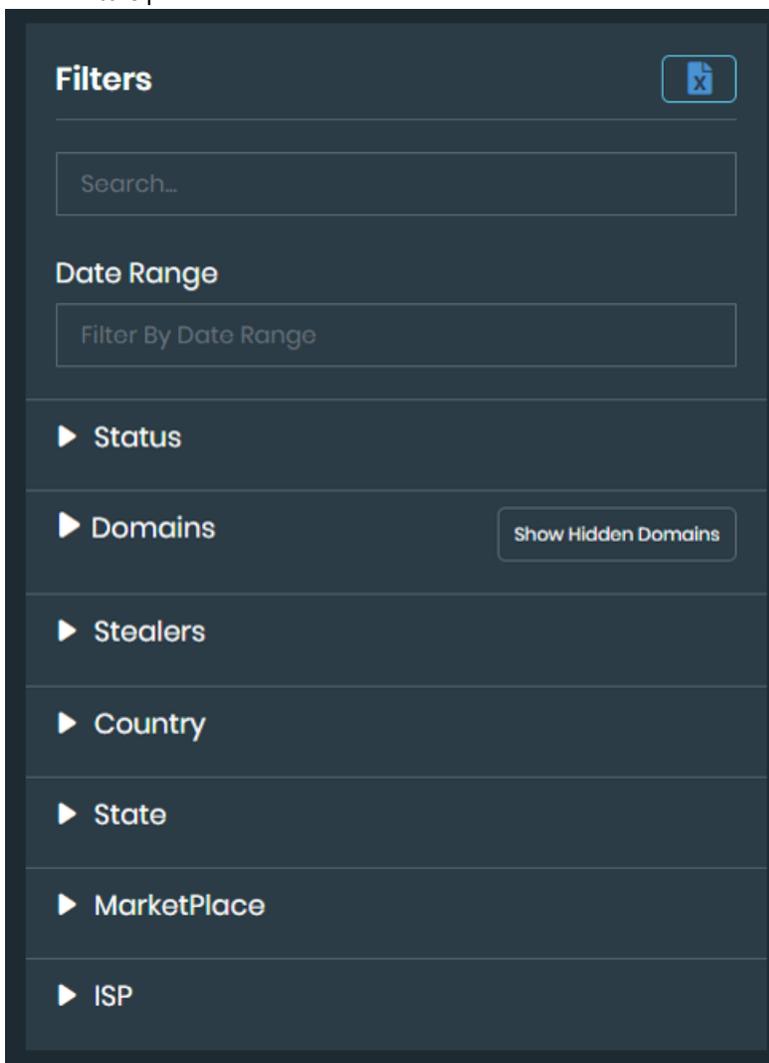
The values in all widgets are updated based on the filters applied, except for *Total Compromised Systems(On Sale) affiliated with <organization name>* value.

Filtering stealer infection information

You can use several methods to filter information in the *Stealer Infections* .

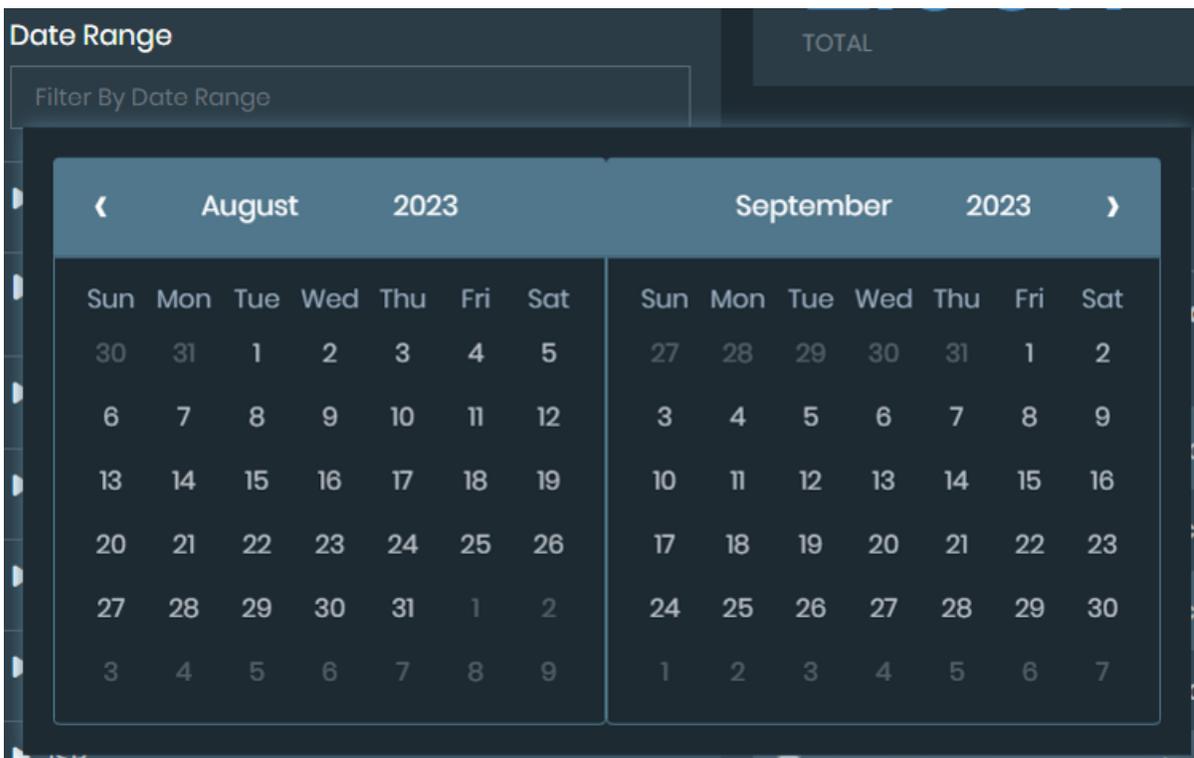
To filter stealer infection information:

1. Go to *Adversary Centric Intelligence > Stealer Infections*.
2. Select the desired tab *Compromised Systems(Leaked)* or *Compromised Systems(On Sale)*.
3. In the *Filters* pane on the left hand side select the filters.

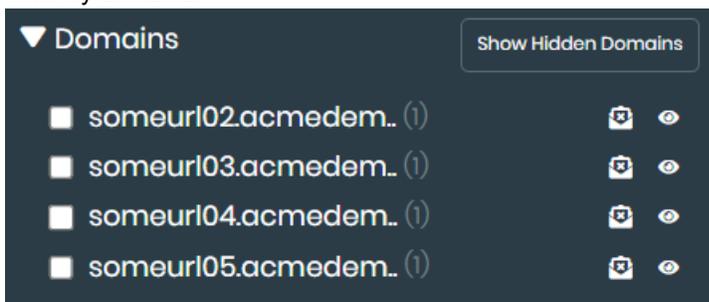


4. Search for keywords:
 - a. In the *Type and hit Enter to Search* box, type a keyword, and press *Enter*. The information is filtered.

- b. Clear the keyword and press *Enter* to remove the filter.
- 5. Filter information by a date range:
 - a. Click *Filter Report by Date Range*. Two calendars are displayed.

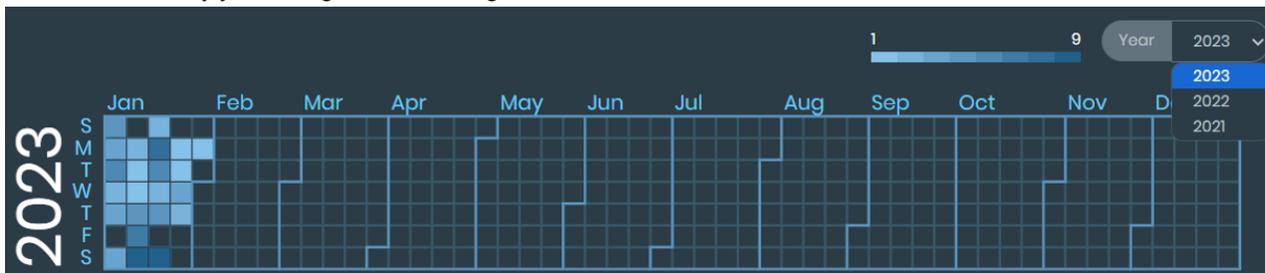


- b. In the left calendar, select a month, year, and day to specify the start date of the range.
- c. In the right calendar, select a month, year, and day to specify the end date of the range. Only information from the date range is displayed.
- d. Click the X in the *Start & End Date* box to remove the date range filter.
- 6. Click *Active* or *Resolved* to filter by status.
- 7. Filter by domains.



- a. Click desired domains to filter.
- b. Click  icon next to desired domain to unsubscribe and stop email notifications.
- c. Click  icon next to desired domain to hide the domain.
- d. Click *Show Hidden Domains* to view hidden domains. Click  icon next to the desired hidden domain to unhide.
- 8. Click stealers to filter the data based on a specific stealers.

- 9. The following additional filters are available for *Compromised Systems(On Sale)* page. Click desired values to filter.
 - *Country*
 - *State*
 - *Marketplace*
 - *ISP*
- 10. Filter the events by year using *Calendar* widget:

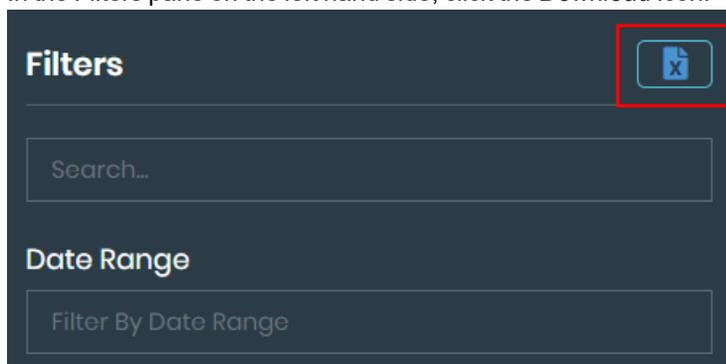


Exporting stealer infections data

You can download the stealer infections information to an *All Market Place.xlsx* file in Microsoft Excel format.

To export stealer infections information:

1. Go to *Adversary Centric Intelligence > Stealer Infections*.
2. Select the desired tab *Compromised Systems(Leaked)* or *Compromised Systems(On Sale)*.
3. (Optional) Filter the data. See [Filtering stealer infection information on page 165](#).
4. In the Filters pane on the left hand side, click the *Download* icon.



5. An *All Market Place.xlsx* file is downloaded.



When exporting *Compromised Systems(Leaked)* data, only an administrator has the option to download stealer information that includes passwords.

OSINT Cyber Threats

Open Source Intelligence (OSINT) is method of gathering threat intelligence from publicly available sources. Over time, OSINT coverage has changed to a great extent. Previously, it only covered sources such as Blogs, news, business websites, social networks, and so on.

The *Adversary Centric Intelligence > OSINT - Cyber Threats* page provides you the ability to stay up to date with information published in open source platforms, such as social media, GitHub repositories, and so on. Information for review is based on specific criteria, including:

- Exploited vulnerabilities
- Zero day vulnerabilities
- Global events

On the *OSINT - Cyber Threats* page, you can:

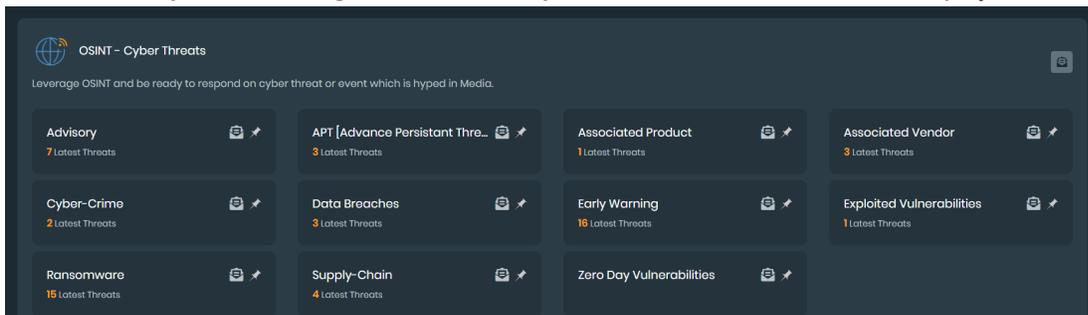
- Review threat events. See [Reviewing threats on page 168](#).
- Pin threat events to the top of the list. See [Pinning events on page 169](#).
- Subscribe to threat event notifications. See [Subscribing to event notifications on page 170](#).
- Subscribe other FortiRecon users to event notifications. See [Adding subscriptions on page 171](#).

Reviewing threats

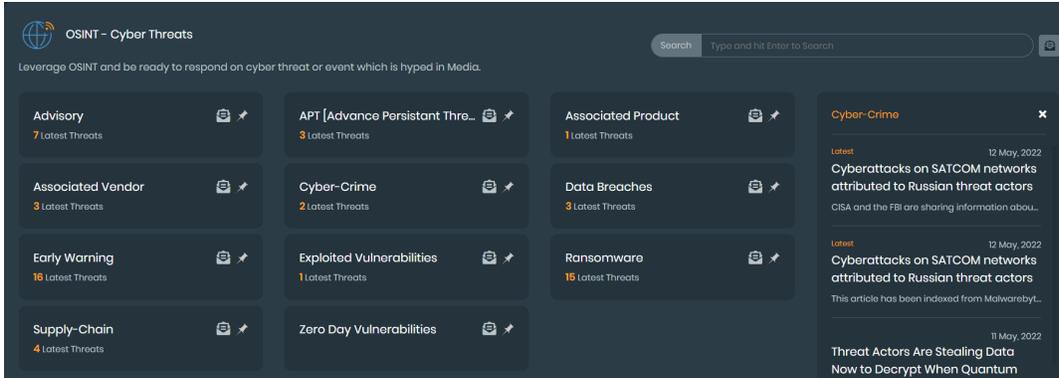
You can view more information about each threat.

To review threats:

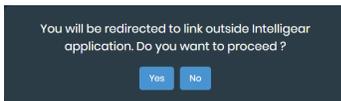
1. Go to *Adversary Centric Intelligence > OSINT - Cyber Threats*. The list of events is displayed.



2. Click an event title, such as *Cyber-Crime*. The list of events is displayed on the right side. In the following example, *Cyber-Crime* is selected:



3. On the right, click the event to display more information about it outside the FortiRecon portal. A confirmation dialog is displayed.



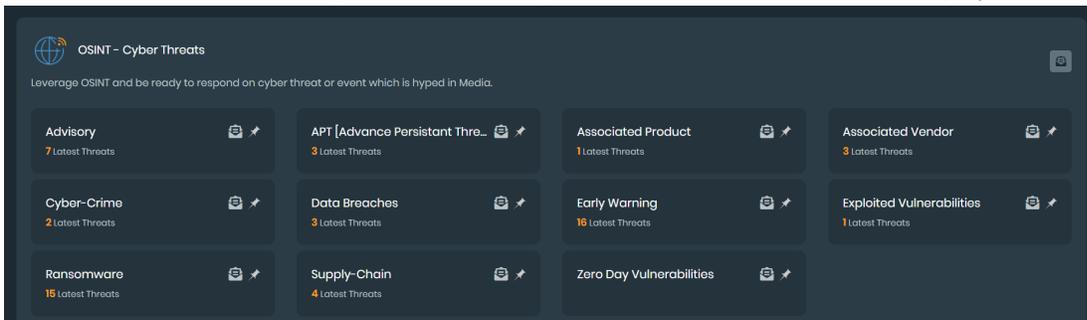
4. Click Yes to open the link in a new tab in your browser.

Pinning events

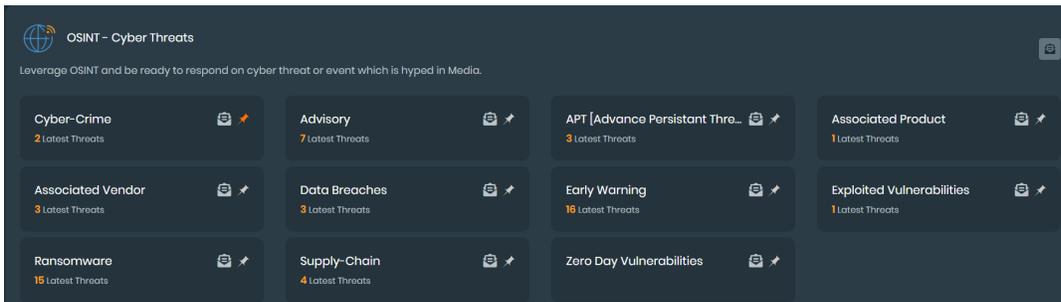
You can pin events to the top of the list. Pinned events have an orange *Pin* icon. Unpinned events have a white *Pin* icon.

To pin events:

1. Go to *Adversary Centric Intelligence > OSINT - Cyber Threats*. The list of events is displayed.



2. Click the *Pin* icon beside an event to turn the pin orange and pin the event to the top of the list. In the following example, *Cyber-Crime* is pinned to the top of the list.



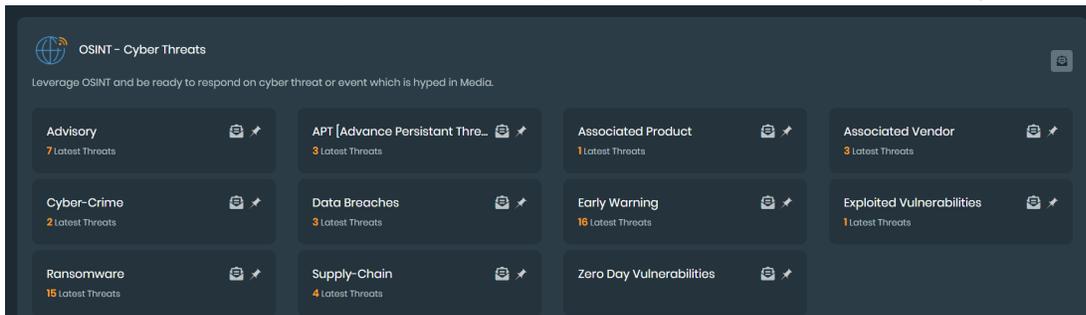
Click the *Pin* icon again to turn the pin white and unpin the event from the top of the list.

Subscribing to event notifications

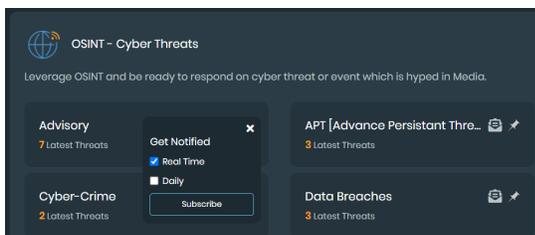
You can enable subscriptions to receive notifications for one or more threat events. You can also change subscriptions and unsubscribe.

To subscribe to event notifications:

1. Go to *Adversary Centric Intelligence > OSINT - Cyber Threats*. The list of events is displayed.



2. For an event, click the *Subscribe* icon. The subscription options are displayed for the event. In the following example, subscription options are displayed for the *Advisory* event:



3. Select one of the following options to specify when to receive the notification:

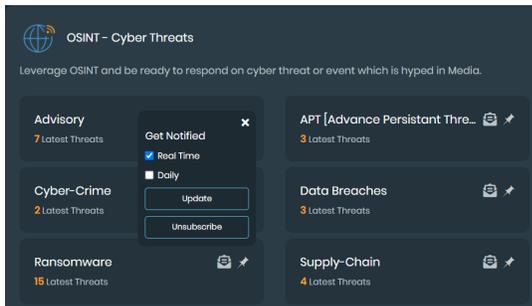
Real time	Select to receive a notification when a new threat event is published.
Daily	Select to specify the time each day to receive a notification about new threat events.

4. Click *Subscribe*.
The *Subscribe* icon turns blue.



To change event notifications:

1. Go to *Adversary Centric Intelligence > OSINT - Cyber Threats*. The list of events is displayed.
2. Click a blue *Subscribe* icon. The subscription options are displayed.



3. Change when you get notified, and click *Update*.

To unsubscribe from event notifications:

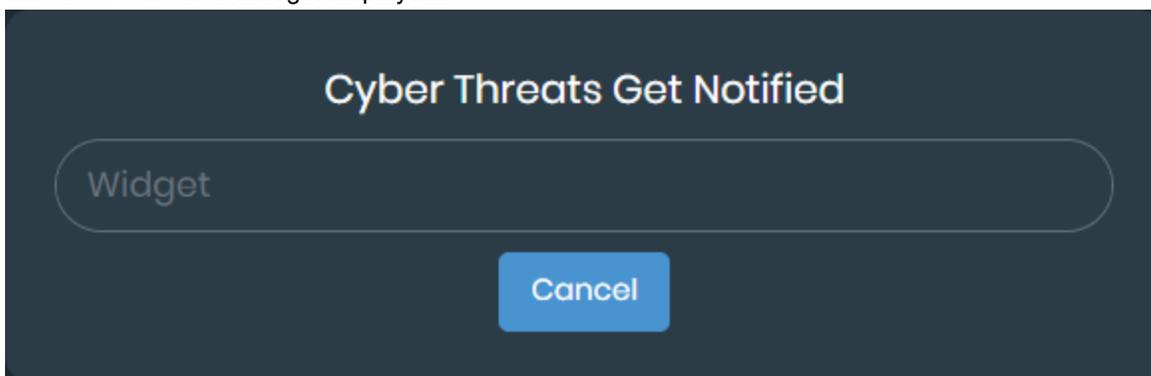
1. Go to *Adversary Centric Intelligence > OSINT - Cyber Threats*. The list of events is displayed.
2. Click a blue *Subscribe* icon. The subscription options are displayed.
3. Click *Unsubscribe*.
The *Subscribe* icon turns white, and notifications are turned off.

Adding subscriptions

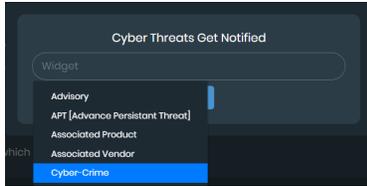
FortiRecon users with Admin privilege can set up subscriptions for other FortiRecon users to receive notifications about events.

To add subscriptions:

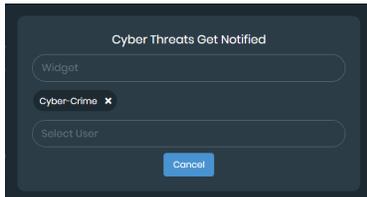
1. Go to *Adversary Centric Intelligence > OSINT - Cyber Threats*, and click the *Add Subscription* button. The *Cyber Threats Get Notified* dialog is displayed.



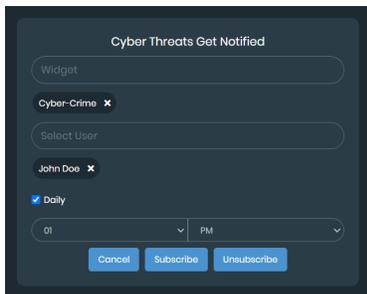
2. Click the *Widget* box, and select the threat events.
In the following example, *Cyber-Crime* is selected.



The *Select User* box is displayed.



3. In the *Select User* box, select a user.



The *Daily* check box is displayed. By default users receive notifications in real-time as events occur.

4. Select *Daily* specify what time each day the user should receive the notification. Clear the *Daily* check box to receive notifications in real time.
5. Click *Subscribe*.

Vulnerability Intelligence

The *Adversary Centric Intelligence > Vulnerability Intelligence* page displays information on vulnerability exposure to help prioritize vulnerability patching. From the *Vulnerability Intelligence* page, you can:

- Review known CVEs. See [Vulnerability exposure on page 172](#).
- Review the notable global CVEs. See [Global notable vulnerabilities on page 175](#).
- View specific CVE reports. See [Viewing and filtering CVE reports on page 176](#).
- Export a list of CVEs. See [Exporting CVEs on page 178](#).
- Bulk add CVEs to monitor. See [Manually adding CVEs on page 178](#).

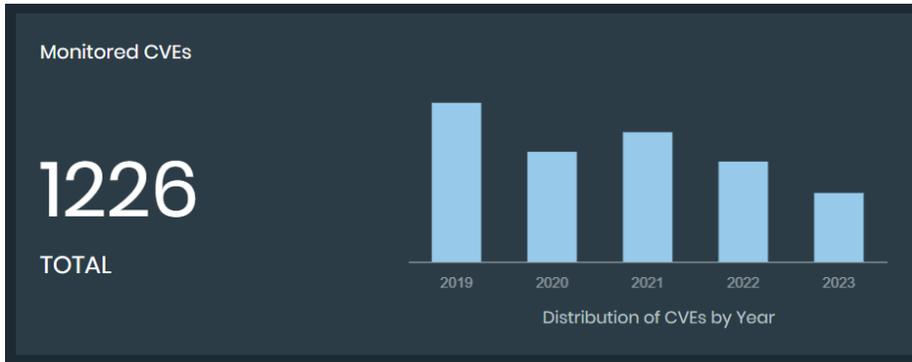
Vulnerability exposure

Monitored CVEs can be reviewed at a high level from the *Adversary Centric Intelligence > Vulnerability Intelligence* page in the *Vulnerability exposure* section:

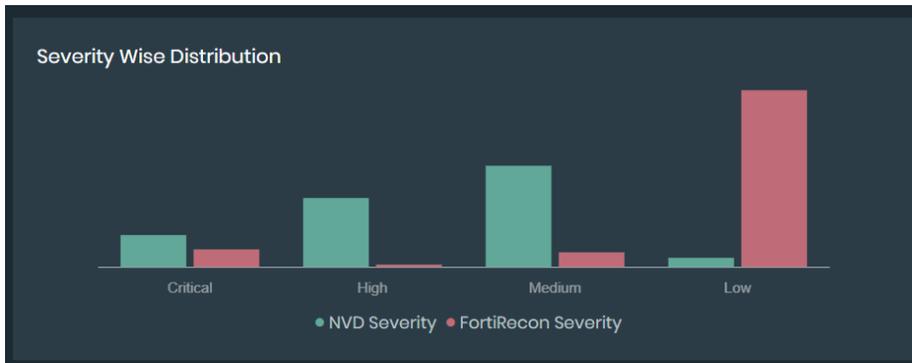


Clicking on any chart element or legend item will filter the view and navigate you to a CVE details page pre-populated with the chosen filter.

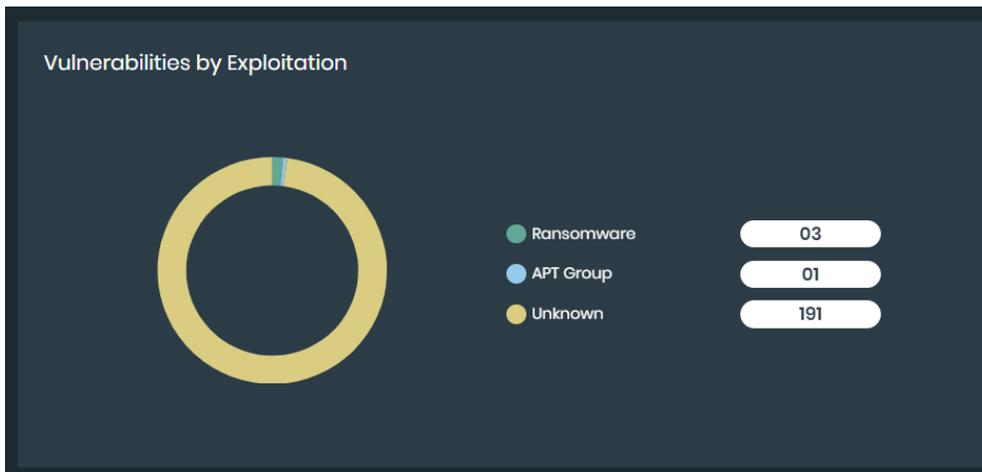
- **Monitored CVEs**: This tile displays the total count of monitored CVEs and distribution of CVEs by year graph.



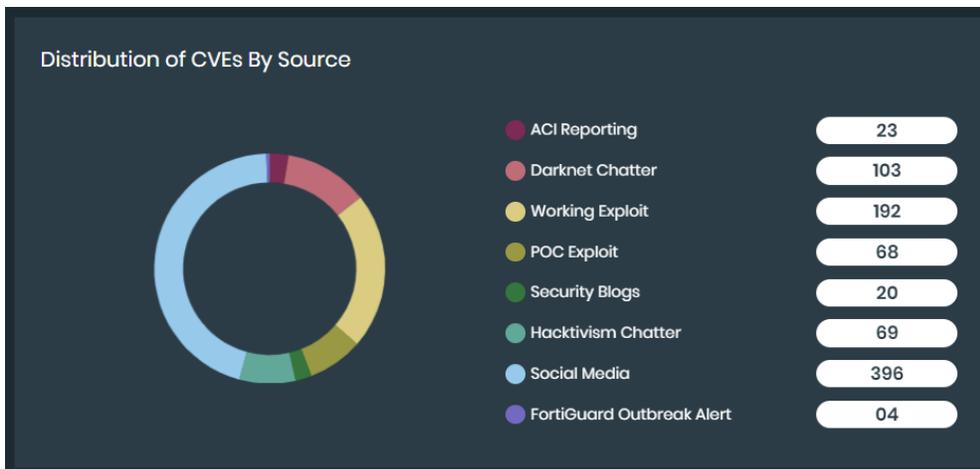
- **Severity Wise Distribution**: This tile displays a graph of CVEs to show the total count of CVEs per rating, from *Low* to *Critical* using both NVD and FortiRecon severity classifications.



- **Vulnerabilities by Exploitation**: This tile displays the distribution of vulnerabilities based on the availability of known exploits.



- **Distribution of CVEs By Source**: This tile displays the breakdown of CVEs based on their originating source.



- **Vulnerabilities by top 5 Products:** Displays a list of the products with the most CVEs monitored and the severity range from *Low* to *Critical*.

Product Name	Associated CVEs	FortiRecon Severity			
php	521	21	0	19	481
debian_linux	292	36	06	22	228
http_server	203	29	01	22	151
ubuntu_linux	198	20	03	11	164
openssl	193	28	06	28	131

- **Vulnerabilities by top 5 Vendors:** Displays a list of the vendors with the most CVEs monitored and the severity range from *Low* to *Critical*.

Vendor Name	Associated CVEs	FortiRecon Severity			
php	524	23	01	19	481
debian	293	36	06	22	229
apache	203	28	02	24	149
canonical	196	20	03	11	162
openssl	193	28	06	28	131

- **CVEs from EASM Module:** Displays a list of automatically monitored CVEs. Select the *View All* button to view more information. You sort the data by selecting *Date*, *FortiRecon Severity*, or *NVD Severity* from the dropdown. See [Viewing and filtering CVE reports](#).

CVE ID	Vendor	NVD Severity	FortiRecon Severity	Addition Date
CVE-2020-0796	microsoft	Critical	Critical	Jan 12,2024
CVE-2013-4547	f5, suse, opensuse	High	Critical	Jan 12,2024
CVE-2011-3388	apache	Medium	Critical	Jan 11,2024
CVE-2011-3192	canonical, suse, opensuse, apache	High	Critical	Feb 29,2024
CVE-2011-4895	php	Medium	Critical	Feb 29,2024
CVE-2012-1823	php	High	Critical	Jan 12,2024
CVE-2010-1899	microsoft	Medium	Critical	Feb 29,2024
CVE-2014-0160	redhat, debian, mitel, openssl, ricon, o.	High	Critical	Jan 12,2024
CVE-2013-6955	synology	Critical	Critical	Feb 29,2024
CVE-2010-3972	microsoft	Critical	Critical	Feb 29,2024

Showing 10 records sorted by FR Severity [View All](#)

- *CVEs added Manually*: Displays a list of CVEs added by the user.

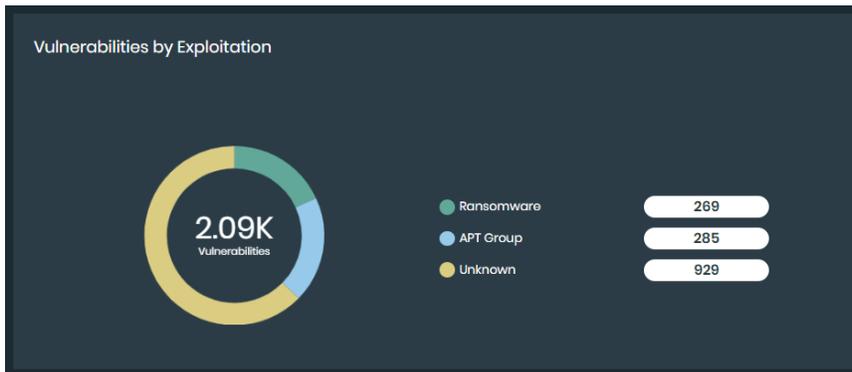
Global notable vulnerabilities

Monitored CVEs can be reviewed at a high level from the *Adversary Centric Intelligence > Vulnerability Intelligence* page in the *Global notable vulnerabilities* section:



Clicking on any chart element or legend item will filter the view and navigate you to a CVE details page pre-populated with the chosen filter.

- *Vulnerabilities by Exploitation*: This tile displays the distribution of vulnerabilities based on the availability of known exploits.



- *Vulnerabilities by top 5 Vendors*: Displays a list of the vendors with the most notable CVEs monitored and the severity range from *Low* to *Critical*.

Vulnerabilities by top 5 Vendors

Vendor Name	Associated CVEs	FortiRecon Severity			
microsoft	677	147	287	26	217
apple	142	26	116	0	0
debian	120	43	65	03	09
google	111	19	88	0	04
cisco	110	22	81	01	06

- Latest 10 Notable CVEs:** Displays a list of the latest notable CVE monitored and the severity range from *Low* to *Critical*. You sort the data by selecting *Date*, *FortiRecon Severity*, or *NVD Severity* from the dropdown. Select the *View All* to view more information. See [Viewing and filtering CVE reports](#).

Latest 10 Notable CVEs Date ▾

CVE ID	Vendor	NVD Severity	FortiRecon Severity	Addition Date
CVE-2021-28482	microsoft	High	High	Mar 22,2024
CVE-2022-1386	fusion_builder_project, theme-fusion	Critical	High	Mar 22,2024
CVE-2022-10270	-	-	High	Mar 22,2024
CVE-2019-1096	microsoft	Medium	Low	Mar 22,2024
CVE-2020-3956	linux, vmware	High	Critical	Mar 22,2024
CVE-2020-17127	microsoft	High	Low	Mar 22,2024
CVE-2019-9081	-	-	Low	Mar 22,2024
CVE-2021-28484	ghost	Medium	Low	Mar 22,2024
CVE-2023-28231	microsoft	High	High	Mar 22,2024
CVE-2022-22583	apple	Medium	High	Mar 22,2024

Showing latest 10 records [View All](#)

Viewing and filtering CVE reports

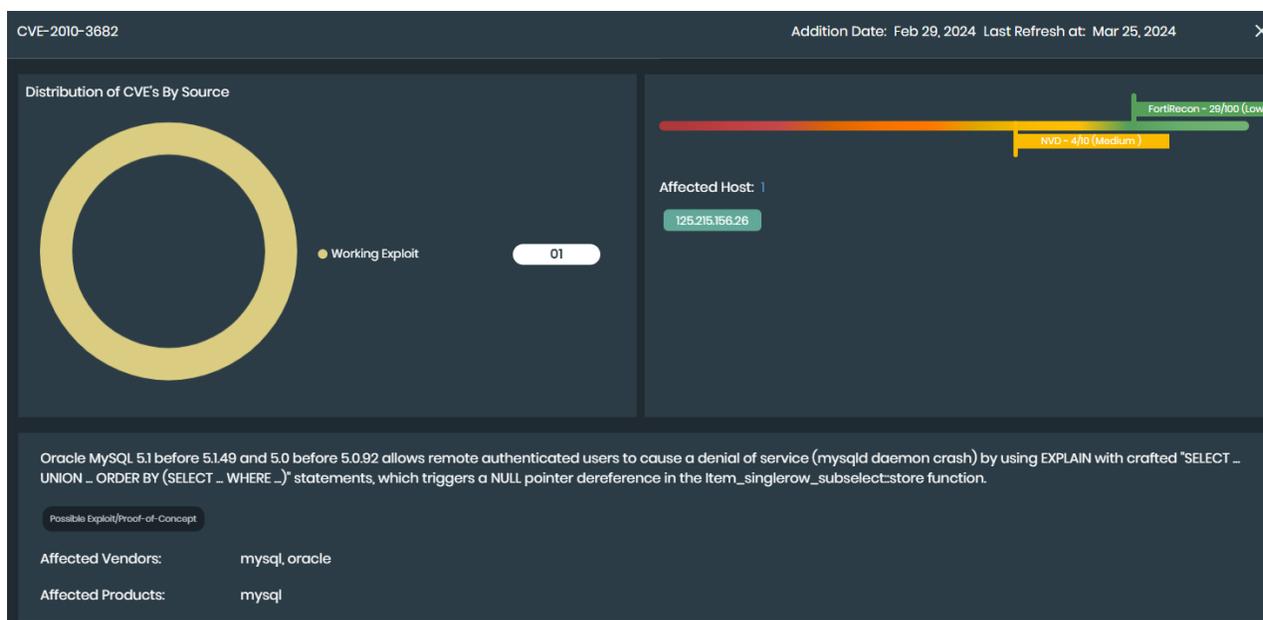
You can review detailed CVE reports in the *Adversary Centric Intelligence > Vulnerability Intelligence* page by selecting the *View All* button from the *Vulnerability exposure > CVEs from EASM Module*, *Vulnerability exposure > CVEs added Manually*, or *Global notable vulnerabilities > Latest 10 Notable CVEs* sections.

To filter reports:

- Go to *Adversary Centric Intelligence > Vulnerability Intelligence*.
- Select *View All* button. The CVE cards page is displayed. You sort the data by selecting *Date*, *FortiRecon Severity*, or *NVD Severity* from the dropdown.



3. Filter information by a date range:
 - a. Click *Date Range*. Two calendars are displayed.
 - b. In the left calendar, select a month, year, and day to specify the start date of the range.
 - c. In the right calendar, select a month, year, and day to specify the end date of the range.
 - d. Click the X to remove the date range filter.
4. Search for keywords:
 - a. In the *Search* box, type a keyword.
5. Enable *Elevated* to search for CVEs that have had the severity increased.
6. Filter reports by information:
 - a. Select the information dropdown menus:
 - *By Category*
 - *By Addition*
 - *By Severity*
 - *By CVE Year*
 - *By Vendor*
 - *By Products*
 - b. Select one or more filters. The CVE reports that match the filters are displayed.
7. Select the CVE ID to view the full, detailed report.



Exporting CVEs

You can export a list of all or specific CVEs from the CVE cards page to an Excel file. Information in the file includes:

- CVE ID
- Truview Score
- Truview Severity
- NVD Severity
- Description
- Published date

To export CVEs:

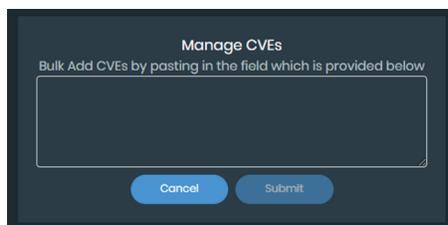
1. Go to *Adversary Centric Intelligence > Vulnerability Intelligence*.
2. Select *View All* button. The CVE cards page is displayed.
3. Filter for the reports you want included in the Excel file. See [Viewing and filtering CVE reports on page 176](#).
4. Click *Export CVE List*. An Excel file is downloaded to your device.

Manually adding CVEs

You can bulk add CVEs to monitor in the *Vulnerability Exposure > CVEs added Manually* tab on the *Adversary Centric Intelligence > Vulnerability Intelligence* page.

To manually add CVEs:

1. Go to *Adversary Centric Intelligence > Vulnerability Intelligence*.
2. Click *Manage CVEs Watchlist*. The *Manage CVEs* dialog is displayed.



3. Enter the CVE IDs in the text field.
4. Click *Submit*.

Ransomware Intelligence

The *Adversary Centric Intelligence > Ransomware Intelligence* page helps with supply chain monitoring and displays information on past and potential ransomware incidents. The information in this module is captured from blogs and sites operated by ransomware operators. The names of victims or potential victims mentioned in this section are purely based on information provided on these sites and blogs. The authenticity of these claims must be validated by your organization.

From the *Ransomware Intelligence* page, you can:

- View past and potential ransomware incidents. See [Viewing ransomware intelligence on page 179](#).
- Filter ransomware incident information. See [Filtering ransomware intelligence on page 185](#).
- Export information on ransomware incidents to an Excel file. See [Exporting ransomware information on page 187](#).
- Create, edit, and monitor a ransomware watchlist. See [Managing My Watchlist on page 187](#).

Viewing ransomware intelligence

The *Ransomware Intelligence* page contains multiple sections that display high level information on the ransomware threat landscape.

- [Ransomware Trends](#)
- [Ransomware Threat Campaigns](#)
- [Watchlist](#)
- [Latest Ransomware Victims](#)
- [Latest Initial Access Broker \(IAB\) Victims](#)

Ransomware Trends

This section provides a high-level view of global ransomware activity.

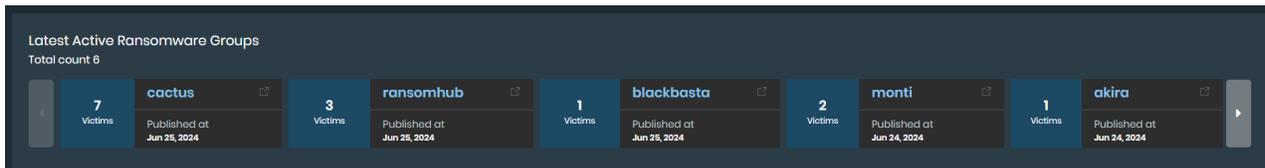


You can filter the data displayed in *Ransomware Trends* using the *Ransomware Group* and *Date* filters.

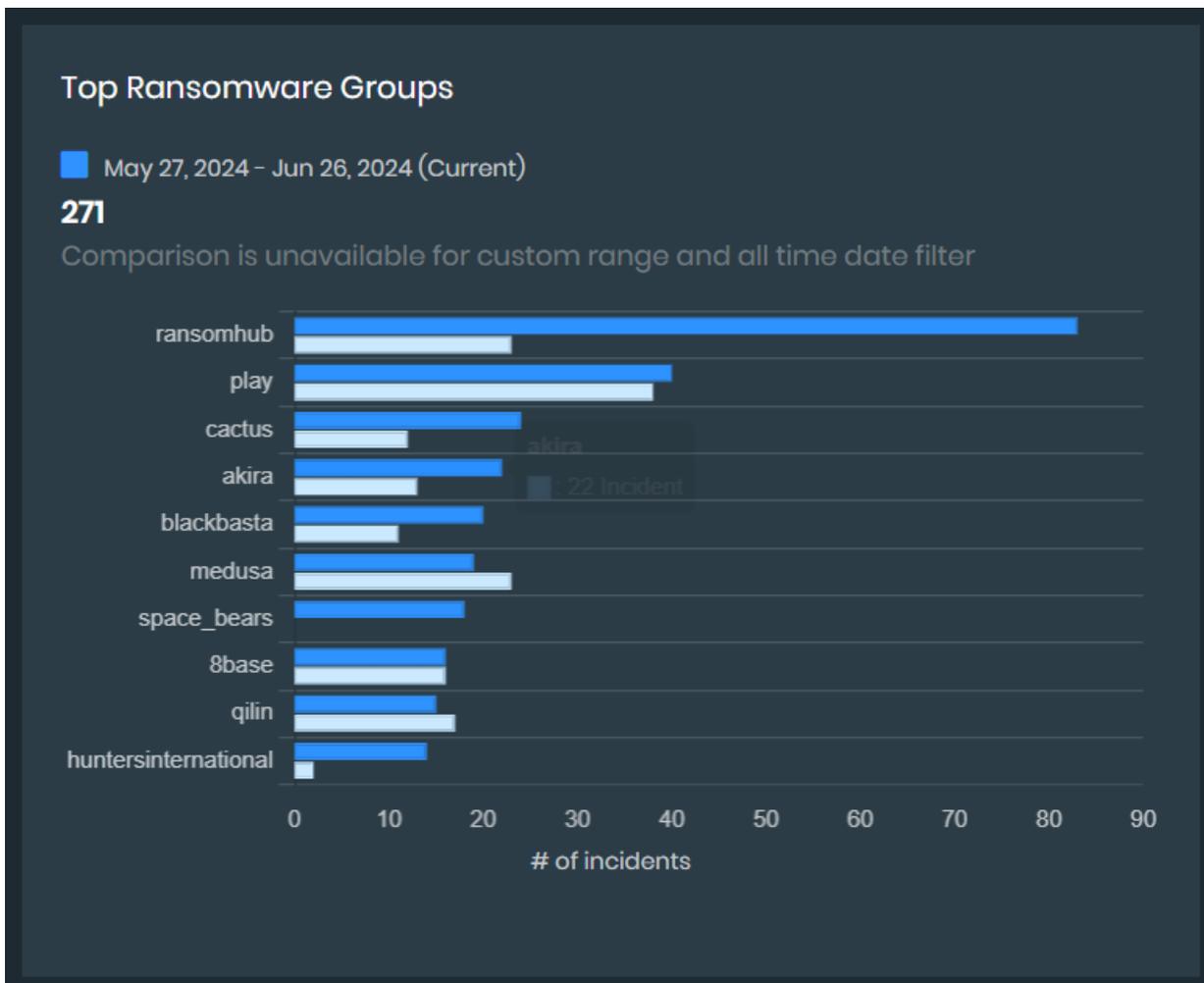
- Summary:** A summary of total number of ransomware groups tracked, ransomware victims, most active ransomware groups, top targeted sector, and top victimized countries.



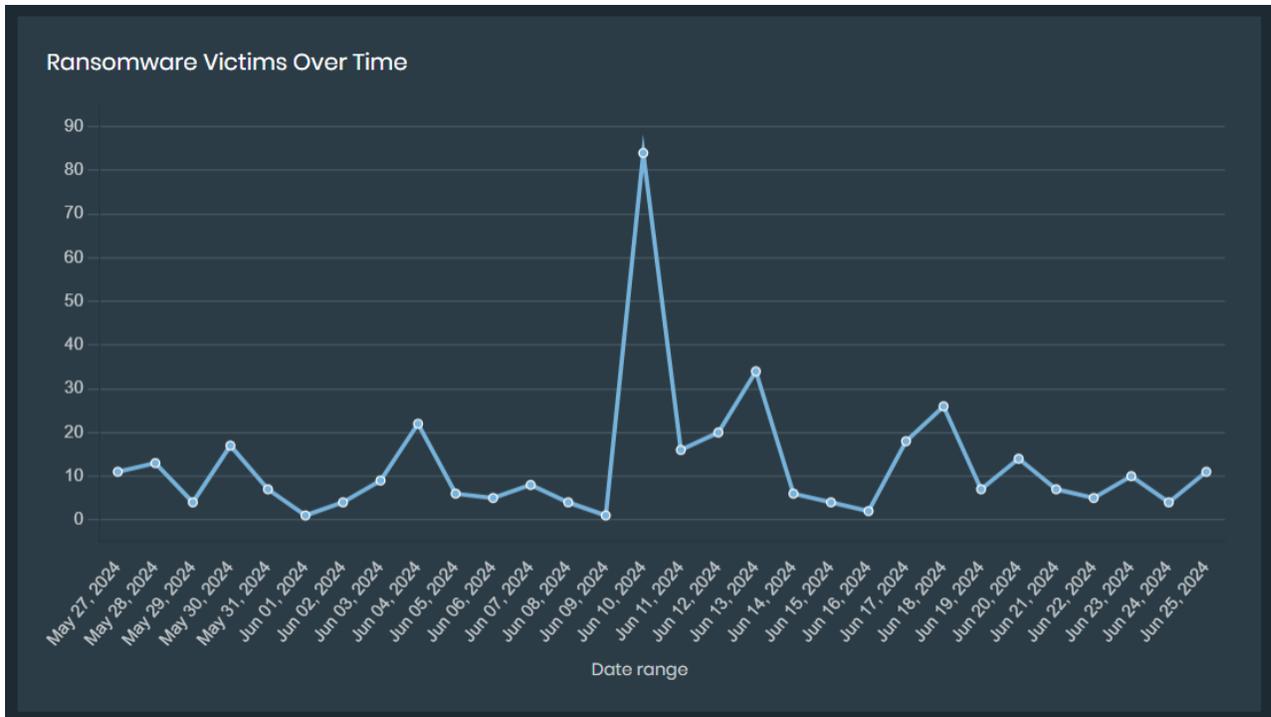
- Latest Active Ransomware Groups:** A list of known, active ransomware groups, including victim count, group name, and published date. Click link icon to view ransomware victims affected.



- Top Ransomware Groups:** A bar chart that compares the current number of incidents for each ransomware group with the number of incidents over a period of time. You can select the time period using the date filter.



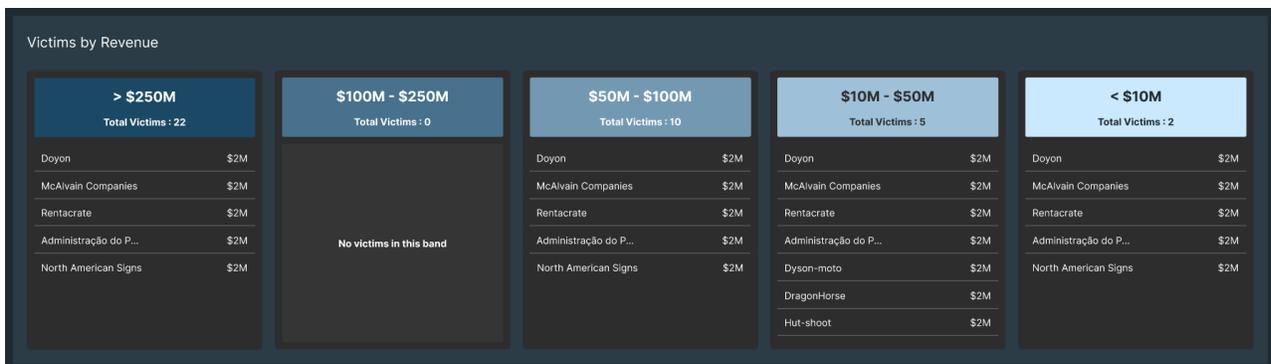
- Ransomware Victims Over Time:** A line graph that tracks the number of ransomware victims identified over time.



- **Top 10 Countries/Sectors by Victims:** A heat map displaying the distribution of ransomware victims across different countries and sectors. Use the *Show By* dropdown to switch between a country or sector view.



- **Victims by Revenue:** A list of organizations impacted by ransomware attacks, along with their estimated revenue.



Ransomware Threat Campaigns

This section provides information on specific ransomware attacks.

- **Threat Campaigns:** A list of ransomware campaigns including report date, ransomware group and link to the report. Click *Export* to export the data.

RANSOMWARE THREAT CAMPAIGNS

Threat Campaigns Export

Report Date	Ransomware Group	Report Title
Jun 13, 2024	Black Basta Ransomware Operators	[Early Warning][Threat Campaign Alert] Ransomware Attackers May Have Used Privilege Escalation Vulnerability as Zero-day
Jun 11, 2024	TellYouThePass Ransomware Operators	[Early Warning] [Threat Campaign Alert] Update: CVE-2024-4577 quickly weaponized to distribute TellYouThePass Ransomware
Jun 10, 2024	Unknown	[Threat Campaign Alert] IcedID Brings ScreenConnect and CSharp Streamer to ALPHV Ransomware Deployment
Jun 07, 2024	Unknown	[Threat Campaign Alert] Lost in the Fog: A New Ransomware Threat

- **Exploited Vulnerabilities:** A list of exploited vulnerabilities including CVE, ransomware group, FortiRecon and NVD severity information.
 - Click *Report ID* to view the report
 - Click *CVE* to view the detailed information on *Vulnerability Intelligence* page with selected CVE as filter.
 - Click *Export* to export the data.

Exploited Vulnerabilities Export

77 Vulnerabilities

- Wazawaka: 18
- APT35: 10
- BlackCat Ransomware Operators: 7
- Magniber Ransomware: 7
- BianLian Ransomware Operators: 6

Report Date	Report ID	CVEs	Ransomware Group	FortiRecon Severity	NVD Severity
Jun 13, 2024	2024061248315	CVE-2024-26169	Black Basta Ransomware Operators	Critical	High
Jun 13, 2024	202406127011	CVE-2024-26169	Black Basta Ransomware Operators	Critical	High
Jun 11, 2024	2024061157385	CVE-2024-4577	TellYouThePass Ransomware Operators	Critical	Critical
Jun 11, 2024	2024061157385	CVE-2021-44228	TellYouThePass Ransomware Operators	Critical	Critical
Jun 11, 2024	2024061157385	CVE-2023-46604	TellYouThePass Ransomware Operators	Critical	Critical
Jun 06, 2024	2024060693147	CVE-2020-1472	RansomHub Group	Critical	Medium
Jun 06, 2024	2024060656321	CVE-2020-1472	RansomHub Operators	Critical	Medium
Apr 29, 2024	2024042745340	CVE-2023-41265	Cactus Ransomware Operators	Critical	Critical
Apr 29, 2024	2024042745340	CVE-2023-48365	Cactus Ransomware Operators	Critical	Critical

Watchlist

A list of monitored organization and vendors. If an asset matches a monitor, an alert will be triggered. Add or edit your watchlist by selecting *Manage*. See [Managing My Watchlist](#).

The screenshot shows a 'WATCHLIST' interface with two main sections: 'Organization Watchlist' and 'Vendor Supply Chain Watchlist'. The Organization Watchlist shows 02 Matched and 42 Monitored items. The Vendor Supply Chain Watchlist shows 04 Matched and 15 Monitored items. Both sections display a list of items with details like 'Last published at' and 'Target URL'.

Latest Ransomware Victims

A list of the most recent victims of ransomware victims, including information on the victim revenue, sector, and country. Click *View All* to view more victims.

In the *Latest Ransomware Victims* page, click *Show Details* next to ransomware entry to view the post.

Click ransomware group name to view detailed information. See [Ransomware Group Activities](#).

Post Date	Ransomware Group	Victim Name	Domain	Revenue	Sector	Country
Jun 25, 2024	cactus	Westfalla Automotive	westfalla-automotive.com,monoflexdata.se,monoflex.nu	19M	Consumer Services	Germany
Jun 25, 2024	cactus	Hydmehc	hydmech.com	47M	Manufacturing,Industrial Machinery & Equipment	Canada
Jun 25, 2024	cactus	Daystar Television	daystar.com,constructionmaps.net,daystarllp.com,daystarassociates.com,daystarsolar.com,daystartrading.com,daystar-usa.com,daystar.net,christianchurchraleighnc.com	120M	Organizations,Religious Organizations	United States

Ransomware Group Activities

This page provides detailed information about a specific ransomware group, including its activity, victims, exploited vulnerabilities, and technical indicators. It includes following sections.

- The overview section provides information of the ransomware group's activity level, including the date it was first identified and the total number of victims identified to be impacted. Click *Export full profile* to download detailed ransomware group information in PDF format. Once the export is complete, you can download the file from the *Profile > Downloads* page.

The screenshot shows the 'Ransomware Group Activities' page for the 'lynx' group. It displays the group name 'lynx', the date 'Jul 17, 2024' (First seen), and the number of 'Total Victims' as 12. There is an 'Export full profile' button.

- The *Victims* section includes the following information.
 - Top Victim Countries*: This word cloud displays the most frequently targeted countries by the group. The size of a country name corresponds to the number of victims in that location.

- **Top Victim Sectors:** This word cloud visualizes the sectors most impacted by the group's attacks. The size of a sector name reflects the number of victims within that sector.
- **Victims List:** This table lists identified victims of the ransomware group.

VICTIMS Export

Top Victim Countries

Top Victim Sectors

Post Date	Victim Name	Victim Geo	Victim Sector	Post title
Jun 25, 2024	westfallia-automotive.com,monoflexdata.se,monoflex.nu	Germany	Consumer Services	Westfallia Automotive
Jun 25, 2024	hydmech.com	Canada	Manufacturing,Industrial Machinery & Equipment	Hydmech

- **Exploited Vulnerabilities:** This section displays a list of exploited vulnerabilities including CVE, ransomware group, FortiRecon and NVD severity information.
 - Click *Report ID* to view the report
 - Click *CVE* to view the detailed information on *Vulnerability Intelligence* page with selected CVE as filter.
 - Click *Export* to export the data.

EXPLOITED VULNERABILITIES Export

Report Date	Report ID	CVEs	FortiRecon Severity	NVD Severity
Apr 29, 2024	2024042745340	CVE-2023-41265	● Critical	● Critical
Apr 29, 2024	2024042745340	CVE-2023-48365	● Critical	● Critical
Apr 29, 2024	2024042745340	CVE-2023-41266	● Critical	● Medium
Dec 01, 2023	2023113095541	CVE-2023-41265	● Critical	● Critical
Dec 01, 2023	2023113095541	CVE-2023-48365	● Critical	● Critical
Dec 01, 2023	2023113095541	CVE-2023-41266	● Critical	● Medium

Records per page 10 Showing 1 to 6 of 6 entries
« Previous 1 Next »

- **Technical Indicators:** This section provides a list of technical indicators (observables) associated with the ransomware group's activity. You can filter the data by observable type. Click *Export* to export the data.

TECHNICAL INDICATOR(S) Filter by All ▼ Export

Observables	Type of Observable
http://zohoservice.net/putty.zip	url
3ac8308a7378dfe047eacd393c861d32df34bb47535972eb0a35631ab964d14d	hash
http://zohoservice.net/qlik-sens-nov.zip	url
216.107.136.46	ip
http://zohoservice.net/qlik-sens-patch.zip	url
cve-2023-41266	cve
6cb87cad36f56aefcefb754605c00ac92e640857fd7ca5faab7b9542ef80c96	hash
90b009b15eb1b5bc4a990ecdd86375fa25eaa67a8515ae6c6b3b58815d46fa82	hash
zohoservice.net	domain
http://216.107.136.46/qliksens_updated.zip	url

Records per page 10 ▼ Showing 1 to 10 of 20 entries « Previous 1 2 Next »

Latest Initial Access Broker (IAB) Victims

A list of latest victims compromised by Initial Access Brokers (IABs). IABs often provide access to compromised networks, which can be exploited by ransomware attackers.

Click [View All](#) to view more victims. In the *Initial Access Broker (IAB) Victims* page, click *Associated Reporting* to view the detailed report.

LATEST INITIAL ACCESS BROKER (IAB) VICTIMS

Report Date	Actor	Source	Victim Name	Target Domain	Revenue	Sector	Country
Jun 25, 2024	Xaos, Shop	HUMINT	W Hydrocolloids	www.whydrocolloids.com	0	-	
Jun 24, 2024	GirIBF	Darknet	University of Central Lancashire	www.uclan.ac.uk	8M	Education, Colleges & Universities	United Kingdom
Jun 24, 2024	violets	Darknet	LSPR ID Communication and Business Institute	www.lspr.ac.id	0	-	
Jun 24, 2024	tagi	Darknet	SIS Distribution Public Company Limited	www.sisthai.com	775M	Retail, Consumer Electronics & Computers Retail	Thailand
Jun 22, 2024	ctf	Darknet	Cineplex Bistro Bar	www.cineplex.com.ec	1M	Hospitality, Movie Theaters	Ecuador

Filtering ransomware intelligence

You can filter the information displayed on the *Ransomware Intelligence > Ransomware Trends*, *Ransomware Intelligence > Latest Ransomware Victims*, *Ransomware Intelligence > Potential Ransomware Victims*, and *My Watchlist* pages.

To filter information on ransomware trends:

1. Go to *Adversary Centric Intelligence > Ransomware Intelligence > Ransomware Trends*.
2. Specify your filters:
 - Select a country from *Country* dropdown.
 - Select a sector from *Sector* dropdown.
 - Select a group from *Ransomware group* dropdown.
 - Select the required time period from the *Date* filter.

The *Ransomware Trends* section will update.

To filter information on the latest ransomware victims:

1. Go to *Adversary Centric Intelligence > Ransomware Intelligence*.
2. In the *Latest Ransomware Victims* section, click *View All*. The *Latest Ransomware Victims* page is displayed.
3. Specify your filters:
 - Enter a keyword in the *Search* field.
 - Select a start and end range from the *Date Range* field.
 - Select specific filters from the list of categories.

The list of victims that match your filters are displayed.

To filter information on Initial access broker victims:

1. Go to *Adversary Centric Intelligence > Ransomware Intelligence*.
2. In the *Latest Initial Access Brokers(IAB) Victims* section, click *View All*. The *Initial Access Brokers(IAB) Victims* page is displayed.
3. Specify your filters:
 - Enter a keyword in the *Search* field.
 - Select a start and end range from the *Date Range* field.
 - Select specific filters from the list of categories.

The list of victims that match your filters are displayed.

To filter your watchlist:

1. Go to *Adversary Centric Intelligence > Ransomware Intelligence*.
2. In the *Watchlist* section, click *Manage*. The *My Watchlist* page is displayed.
3. Select a watchlist to filter:
 - *Organization Watchlist*
 - *Vendor Watchlist*
4. In *Organization Watchlist* tab, click the desired radio button to filter the results:
 - *All*: Show all the assets.
 - *EASM*: Show only assets that were automatically added to the watchlist by EASM.
 - *Manual*: Show only assets that were manually added to the watchlist.

The watchlist will display any assets that match the set filters.

Exporting ransomware information

You can export a list of recent ransomware victims into an Excel file. The spreadsheet will include information on:

- Victim Name
- Affected Domains
- Revenue
- Sector
- Country
- Date
- Description

To export all of the ransomware victims:

1. Go to *Adversary Centric Intelligence > Ransomware Intelligence*.
2. Scroll to the victim list you want to export:
 - *Latest Ransomware Victims*
 - *Latest Initial Access Broker (IAB) Victims*
3. Click *View All*. The list of victims is displayed.
4. Click the *Export List* icon. The file is downloaded to your computer.

To export specific ransomware victims:

1. Go to *Adversary Centric Intelligence > Ransomware Intelligence*.
2. Scroll to the victim list you want to export:
 - *Latest Ransomware Victims*
 - *Latest Initial Access Broker (IAB) Victims*
3. Click *View All*. The list of victims is displayed.
4. Specify your filters. See [Filtering ransomware intelligence on page 185](#).
5. Click the *Export List* icon. The file is downloaded to your computer.

Managing My Watchlist

Users can monitor certain vendor and organization names in the *My Watchlist* page in the *Vendor Watchlist* and *Organization Watchlist*, respectively. If a match for a monitored asset appears, it triggers an alert. Vendors and organizations can be added to the watchlist manually by users or automatically by EASM.

To filter the monitored assets, see [Filtering ransomware intelligence on page 185](#).

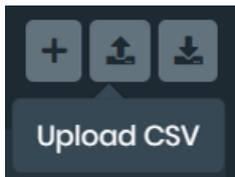
To create a new asset to manage:

1. Go to *Adversary Centric Intelligence > Ransomware Intelligence*.
2. In the *Watchlist* section, click *Manage*. The *My Watchlist* page is displayed.
3. Click + icon. The *Create Watchlist* dialog is displayed.

4. Select the watchlist to add to from the *Select Watchlist* dropdown.
5. Enter a name for the monitored asset.
6. Enter the domain name of the monitored asset.
7. Click *Submit*. The asset is displayed on the assigned watchlist.

To add vendors in bulk:

1. Go to *Adversary Centric Intelligence > Ransomware Intelligence*.
2. In the *Watchlist* section, click *Manage*. The *My Watchlist* page is displayed.
3. Click *Upload CSV* icon to upload the .csv files containing the vendors list. Browse and select the file. Click **Open**.



Note: Ensure that the format in which the vendors data is stored matches with the required format. To view the required format click *Download Sample CSV* icon, select the watchlist type from the drop down and click *Download*.

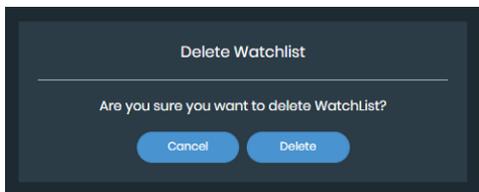
To edit a monitored asset:

1. Go to *Adversary Centric Intelligence > Ransomware Intelligence*.
2. In the *Watchlist* section, click *Manage*. The *My Watchlist* page is displayed.
3. Search the asset you want to edit and click *Edit* icon. The *Edit Watchlist* dialog is displayed.

4. Edit the asset details and click *Submit*.

To delete a monitored asset:

1. Go to *Adversary Centric Intelligence > Ransomware Intelligence*.
2. In the *Watchlist* section, click *Manage*. The *My Watchlist* page is displayed.
3. Click *Delete icon*. A confirmation dialog is displayed.



4. Select *Delete*.

Vendor Risk Assessment

The *Adversary Centric Intelligence > Vendor Risk Assessment* page is designed to create a watchlist of vendors that allows you to assess the security hygiene level of each vendor. From the *Vendor Risk Assessment* page, you can:

- Add new vendors to the watchlist. See [Adding a new vendor to the watchlist on page 189](#).
- View the security hygiene assessment of a vendor. See [Viewing the vendor risk assessment on page 190](#).

Adding a new vendor to the watchlist

You can add new vendors to the watchlist to generate a risk assessment report and identify the overall estimate risk exposure rating. Vendors can be added to the watchlist using the primary domain. Once the domain name has been submitted, collecting data and generating the risk assessment can take up to 24 hours.



If the overall estimated risk exposure rating of a vendor changes to *High*, an alert notification will be sent.

To add a new vendor to the watchlist:

1. Go to *Adversary Centric Intelligence > Vendor Risk Assessment*.
2. Click *Add Vendor*. The *Add new Vendor* dialog is displayed.



3. Enter the vendor domain in the *Primary Domain Name* field.

4. Click the search icon. Vendor information will be displayed.
5. Click Save. The vendor risk assessment will begin to generate.



By default, you can add a maximum of 25 vendors to watchlist. To monitor additional vendors, you can purchase a separate license.

Removing a vendor from the watchlist

To remove a vendor from the watchlist, click *Remove* on its watchlist card.

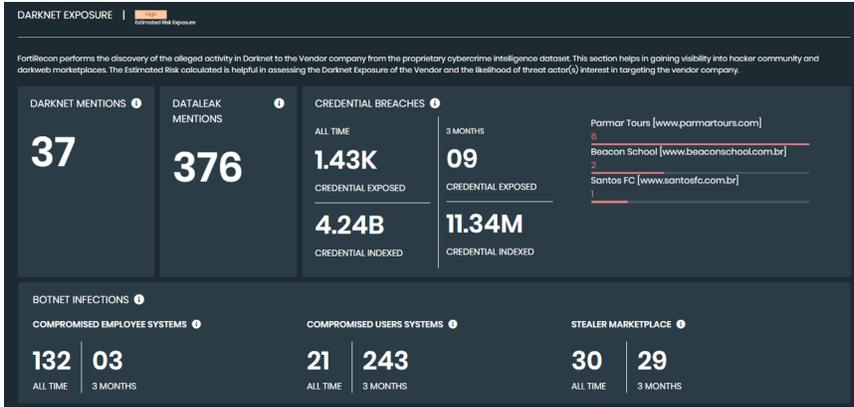
Viewing the vendor risk assessment

The vendor risk assessment organizes the generated vendors data into:

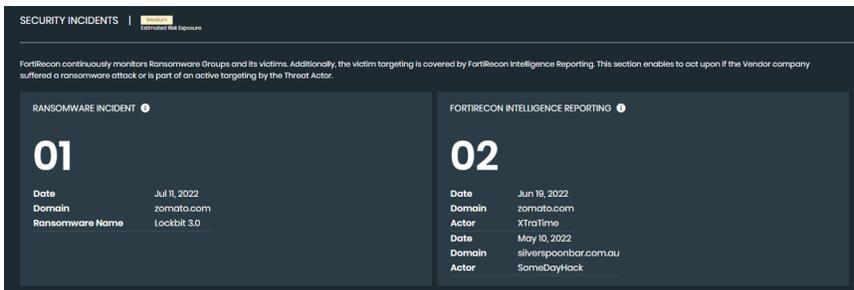
- **Attack Surface Exposure:** Provides an overview of the vendor company's assets and current security hygiene to assess the estimated risk exposure.



- **Darknet Exposure:** Provides an overview of potential activity in hacker communities and darkweb marketplaces toward the vendor company. The estimated risk can be used to assess the likelihood of threat actors' interest in targeting the vendor company.



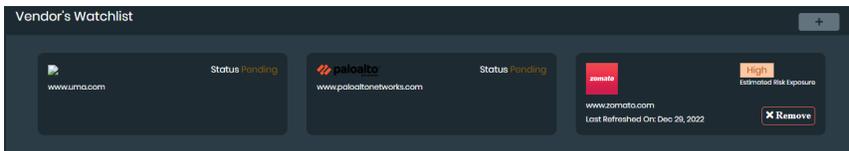
- **Security Incidents:** Provides an overview of ransomware incidences and intelligence reporting so that action can be taken if the vendor company suffers a ransomware attack or is targeted by a threat actor.



Each of these sections is further divided into widgets that allow you to review detailed risk data in order to make informed decisions.

To view a vendor risk assessment:

1. Go to *Adversary Centric Intelligence > Vendor Risk Assessment*.



2. Select the vendor that you want to review. The *Vendor Risk Assessment* opens.



You cannot review vendor information while the *Status* is *Pending*.

3. Review the banner for high-level information on the vendor and the *Overall Estimated Risk Exposure*.



4. Review the *Attack Surface Exposure*:

Issue by Severity	The distribution of security issues by severity on the vendor's attack surface.
Security Issues	The type of security issues identified and the assets affected, distributed by severity. Select a dropdown arrow in the <i>Issue Category</i> for further breakdown of the assets.
Commonly Targeted Services	The services on the vendor's attack surface that are commonly targeted and the number of assets exposing the service.
Asset Distribution	A geographical distribution of the vendor's assets.

5. Review the *Darknet Exposure*:

Darknet Mentions	The number of mentions of the vendor's name or domain on platforms where threat actors perform active discussions.
Dataleak Mentions	The number of mentions of the vendors name or domain on datasets leaked by threat actors.
Credential Breaches	An overview of credentials affiliated with the vendor's domain that have been identified in third party data breaches.
Botnet Infections	An overview of botnet campaigns used to steal credentials from end users: <ul style="list-style-type: none"> • <i>Compromised Employee Systems</i>: The number of usernames from the shared infected system logs containing the email address domain affiliated with the vendor. • <i>Compromised Users Systems</i>: The number of credentials shared from the infected system logs containing the URL or application visited on the infected system matching the vendor's domain. These systems can be end users or employees. • <i>Stealer Marketplace</i>: The number of credentials stolen by threat actors containing the URL or application visited on the infected system matching the vendor's domain. These logs are being listed for sale on prominent stealer marketplaces.

6. Review the *Security Incidents*:

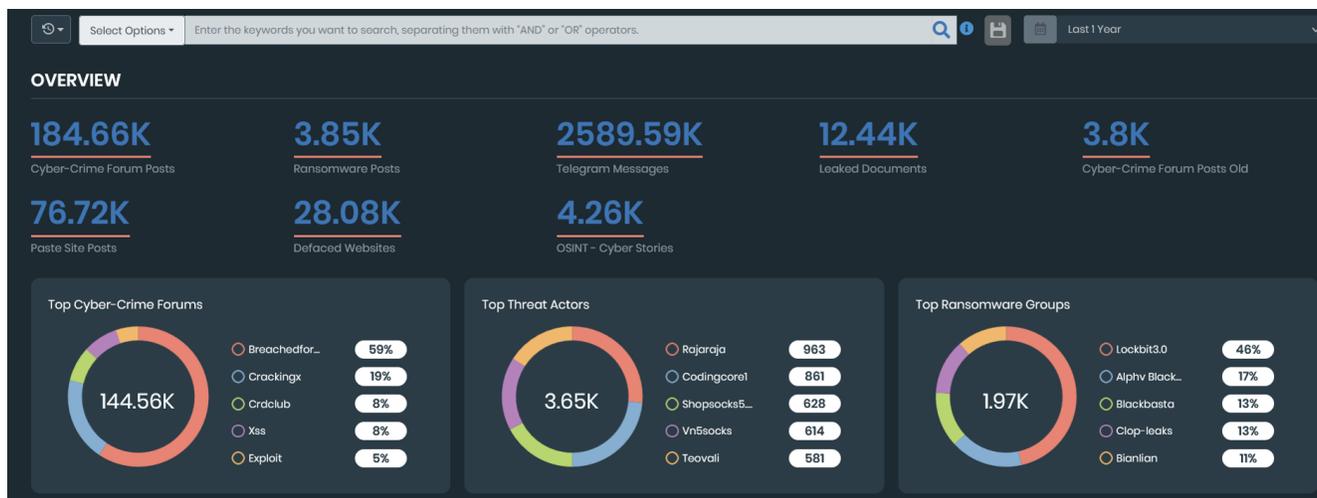
Ransomware Incident	The vendor name or domain appeared on the victim list by a ransomware group.
FortiRecon Intelligence Reporting	FortiRecon ACI reporting contains mention of the vendor's name or domain.

Intelligence Collection Lookup

The *Adversary Centric Intelligence > Intelligence Collection Lookup* page allows you to search the comprehensive intelligence collection, including cyber-crime forums, ransomware posts, Telegram messages, leaked documents, and more using a simple query syntax. From the *Intelligence Collection Lookup* page, you can:

Create and save search queries. See [Search Query](#).

Review the search results. See [Search Results](#).



Search Query

You will be able to search from the available intelligence sources using search queries including keywords and operators.

Creating and running a search query

To create and run a search query:

1. Navigate to *Adversary Centric Intelligence > Investigation* page.
2. Enter the search query using keywords and operators you want to search in the search box. For supported query syntax, see [Search Query Syntax](#).
3. Select the required sources, from the list. Supported sources include the following:
 - *All(default)*
 - *Cyber-Crime Forums Posts*
 - *Ransomware Posts*
 - *Telegram Messages*
 - *Leaked Documents*
 - *Cyber-Crime Forums Posts Old*
 - *Paste Site Posts*
 - *Defacement Websites*
 - *OSINT- Cyber Stores*
4. Click search icon.



Saving a search query

You will be able to save your custom search queries for future use and to get notified. There are two types of saved queries:

- **System queries** - These queries are automatically generated for each organization based on their organization name, brand names, and primary domain. System queries cannot be edited.
- **User queries** - You can save custom search queries that are specific to your requirements.

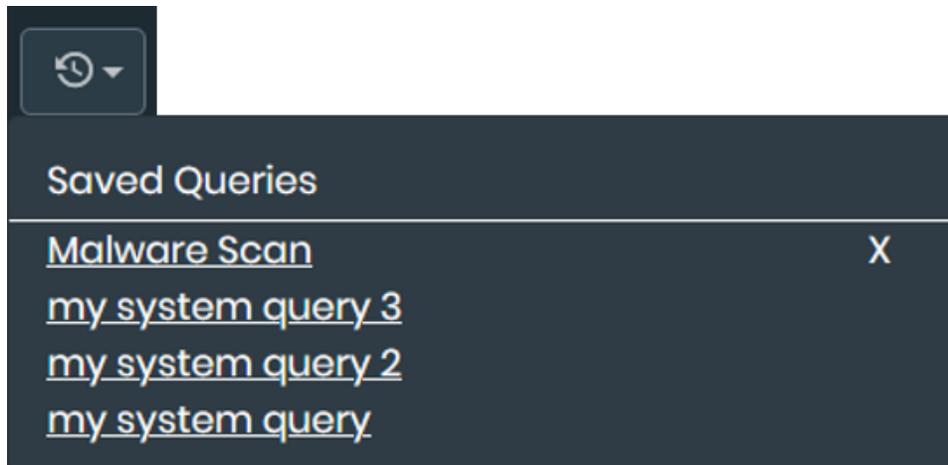
To save a user search query:

1. Navigate to *Adversary Centric Intelligence > Investigation* page.
2. Enter and run the search query.
3. Click *Save* icon.
4. In the Query Details window, provide the *Query Name*.
5. Select *Notify* checkbox, if you want to enable notifications for the query.
6. Click *Save*.

A screenshot of the "Query Details" window. The window has a dark background. At the top, it says "Query Details". Below that, there is a "Query Name" field with a red asterisk, containing the text "Malware Scan". Below the "Query Name" field is a "Query String" field containing "malware OR NodeJS". Underneath the "Query String" field, there are several filter buttons: "Cyber-Crime Forum Posts", "Ransomware Posts", "Telegram Messages", "Leaked Documents", "Cyber-Crime Forum Posts Old", "Paste Site Posts", "Defaced Websites", and "OSINT - Cyber Stories". At the bottom left, there is a "Notify me" checkbox which is currently unchecked. At the bottom right, there are two buttons: "Cancel" and "Save".

To run a saved search query:

1. Navigate to *Adversary Centric Intelligence > Investigation* page.
2. Click Saved Queries icon.
3. Select the required saved search query.



To delete a saved search query:

1. Navigate to *Adversary Centric Intelligence > Investigation* page.
2. Click Saved Queries icon.
3. Click X icon.

To update a saved search query:

1. Select the saved search query.
2. Update the search query in the search box if required.
3. Click *Save* icon.
4. Update the *Query Name* if required.

5. Click *Update* to update the existing search query or click *Save As New* to save as a new search query.

Search Query Syntax

Lucene query language is used to search for specific posts/messages. Following are the examples for using the query language.

Use Case	Query
To filter messages for exact domain match.	"knowbe4.com"
To filter messages for wildcard match containing the domain name.	*google.com
To filter messages for specific keyword with exact match.	"Cyber"
To filter messages for keyword with wildcard match.	*Cyber*
To find matches for multiple keywords.	("bank" OR "banco" OR "ATM malware")
To find matches for multiple keywords with AND condition	("stealer" OR "worm" OR "malware") AND ("bank")
To find matches for multiple keywords while excluding some keywords.	(healthcare OR medical*) NOT ("healthy" OR "Medical Cannabis")

Following operators and modifiers are supported.

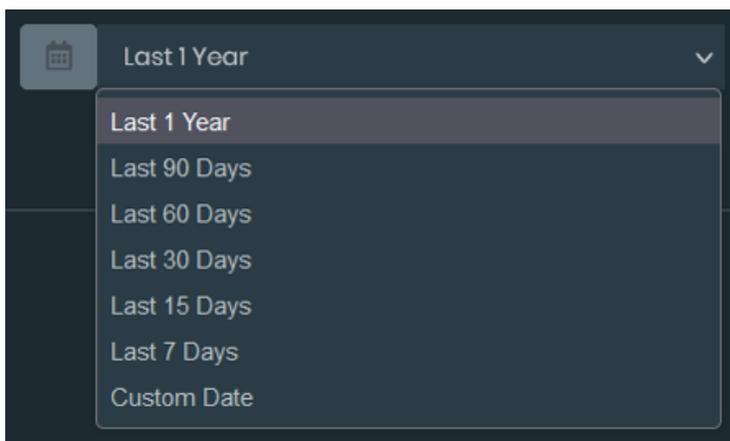
Operators and Modifier	Description
AND	Use this option to find both terms that exist in the text.
OR	Use this option to find at least one term that exists in the text.
NOT	Use this option to exclude that exists in the text.
*	Use this option to perform wildcard search.

Search Results

Once you run either a system or a custom search query, the filtered results are displayed. The default display period for the results is *1 year*. There are two sections available for viewing search results.

- [Overview](#)
- [Detailed Results](#)

To modify the result period, click date drop-down menu and choose the desired time period.



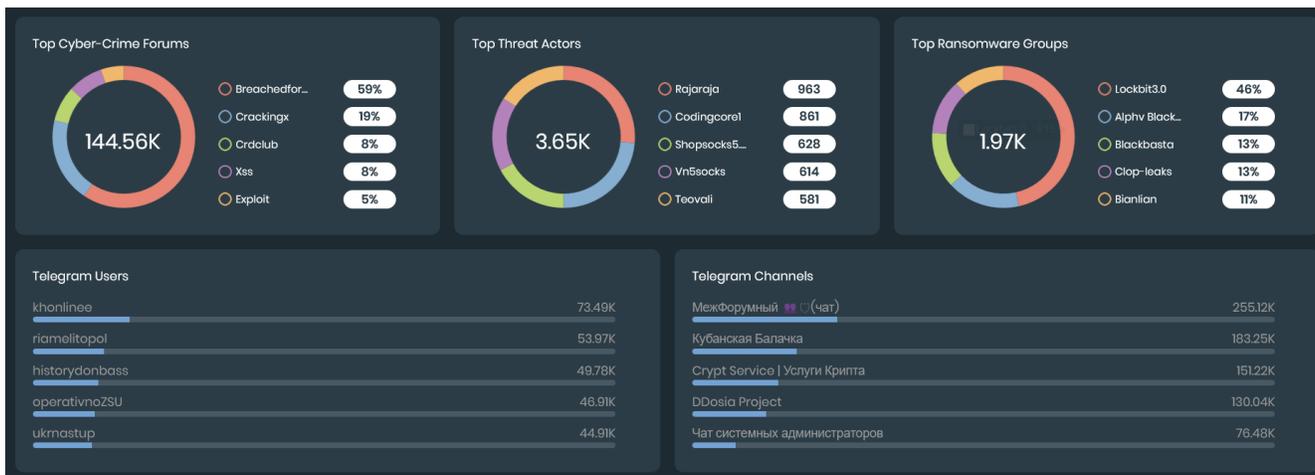
Overview



The overview section provides the cumulative count of the following fields discovered in the search.

- *Cyber-Crime Forums Posts*
- *Ransomware Posts*

- *Telegram Messages*
- *Leaked Documents*
- *Cyber-Crime Forums Posts Old*
- *Paste Site Posts*
- *Defacement Websites*
- *OSINT- Cyber Stores*



The overview section also includes the following chart widgets:

- *Top Cyber-Crime Forums:* Displays the top 5 forums from Darknet posts.
- *Top Threat Actors:* Displays the top 5 threat actors contributing to Darknet posts.
- *Top Ransomware Groups:* Displays the top 5 groups from Ransomware posts.
- *Telegram Users:* Displays the top 10 users with Telegram posts.
- *Telegram Channels:* Displays the top 10 channels with Telegram posts.

Detailed Results

DETAILED RESULTS

Navigation: Cyber-Crime Forum Posts (833) | Ransomware Posts (7) | Telegram Messages (2152k) | Leaked Documents (3,43k) | Cyber-Crime Forum Posts Old (8,91k) | Paste Site Posts (777) | Defaced Websites (22,83k)

Sort by: Collection Date

Collection Date	Posted Date	Forum Name	Actor Name	Post Title	Post Content
Jun 12, 2023	Jun 08, 2023	exploit	byte	ИЩУ КОЛЛЕГУ С HUNC\UNC\LOGS СТАНУ ОТРАБОТЧИКОМ!	Привет , умею работать почти с любым продуктом, ищу хороший материал отработать м аксимально.имею очень хорошую репутацию на соседних бордах по запросу. View Full Text
Jun 12, 2023	Jun 08, 2023	crdclub	Senior Member	Bahira Finance [NEW] [FRESH CCs, DUMPS] [DAILY UPDATES]	Originally Posted by dfriend Thank you bro, I checked it, did you always check the card before usoga? it seems that bin is a very sensitive bin and ca... View Full Text

The detailed results section displays the detailed information of the discovered search results. The following data is displayed for each source. Use *Sort by* dropdown to sort data based on *Collection Date*, *Posted Date*, or *Updated Date*.

Intelligence Source	Fields Displayed
Cyber-Crime Forum Posts	<ul style="list-style-type: none"> • Collection Date • Posted Date • Forum Name

Intelligence Source	Fields Displayed
	<ul style="list-style-type: none"> • Actor Name • Posts Title • Post Content <p>Click <i>View Full Text</i> or <i>Entity</i> type to view the full content. The extracted entities if any including <i>domain</i>, <i>URL</i>, <i>CVE</i>, <i>email</i>, or <i>IP</i> are displayed in the full content window.</p>
Ransomware Posts	<ul style="list-style-type: none"> • Posted Date • Updated Date • Ransomware • Name • Title • Victim Company • Victim Country • Victim Sector • Posts Content <p>Click <i>View Full Text</i> or <i>Entity</i> type to view the full content. The extracted entities if any including <i>domain</i>, <i>URL</i>, <i>CVE</i>, <i>email</i>, or <i>IP</i> are displayed in the full content window.</p>
Telegram Messages	<ul style="list-style-type: none"> • Collection Date • Posted Date • Username • Channel • Message
Leaked Documents	<ul style="list-style-type: none"> • Collection Date • Posted Date • Leak Name • File Name • File Data <p>Click <i>View Full Text</i> to view the full content.</p>
Cyber-Crime Forum Posts Old	<ul style="list-style-type: none"> • Collection Date • Posted Date • Forum • Name • Actor Name • Posts Title • Posts Content <p>Click <i>View Full Text</i> or <i>Entity</i> type to view the full content. The extracted entities if any including <i>domain</i>, <i>URL</i>, <i>CVE</i>, <i>email</i>, or <i>IP</i> are displayed in the full content window.</p>

Intelligence Source	Fields Displayed
Paste Site Posts	<ul style="list-style-type: none"> • Collection Date • Posted Date • Author Name • Title • Content <p>Click <i>View Full Text</i> to view the full content. Click link icon to view the site posts in detail.</p>
Defaced Websites	<ul style="list-style-type: none"> • Collection Date • Posted Date • Source • Notifier • Domain <p>Click link icon to view the website.</p>
OSINT - Cyber Stories	<ul style="list-style-type: none"> • Collection Date • Posted Date • Title • Content <p>Click <i>View Full Text</i> or <i>Entity</i> type to view the full content. The extracted entities if any including <i>domain</i>, <i>URL</i>, <i>CVE</i>, <i>email</i>, or <i>IP</i> are displayed in the full content window.</p> <p>Click link icon to read the full article.</p>

Investigation

The *Adversary Centric Intelligence > Investigation* page displays information about investigations into security events. From the *Investigation* page, you can:

- Review the reputation of IPv4 addresses. See [Reviewing IP address reputation on page 200](#).
- Review the reputation of a domain. See [Reviewing domain reputation on page 201](#).
- Review a file hash. See [Reviewing a file hash on page 201](#).
- Review a CVE. See [Reviewing a CVE on page 201](#).

Reviewing IP address reputation

You can use the *IP Reputation* search bar to search for IPv4 addresses.

To review IP address reputation:

1. Go to *Adversary Centric Intelligence > Investigation > IP Reputation*. The *IP Reputation* tab is displayed.



2. Type the IPv4 address, and press *Enter*.

Reviewing domain reputation

You can use the *Domain Reputation* search bar to search for domains.

To review domain reputation:

1. Go to *Adversary Centric Intelligence > Investigation > Domain Reputation*. The *Domain Reputation* tab is displayed.



2. Type the domain name, and press *Enter*.

Reviewing a file hash

You can use the *File Hash* search bar to search for a file hash.

To review a file hash:

1. Go to *Adversary Centric Intelligence > Investigation > Hash Lookup*. The *Hash Lookup* tab is displayed.



2. Type the file hash, and press *Enter*. The results are displayed.

Reviewing a CVE

You can use the *CVE* search bar to search for a CVE.

To review a CVE:

1. Go to *Adversary Centric Intelligence > Investigation > CVE*. The *CVE* tab is displayed.



2. Type the CVE, and press *Enter*. Information about the CVE is displayed.

Profile settings

The *Profile Settings* page allows you to personalize your FortiRecon account and provide information on your organization.

You can access *Profile Settings* from the menu in the top-right corner of FortiRecon. See [Accessing profile settings on page 202](#).

The *Profile Settings* module contains the following pages:

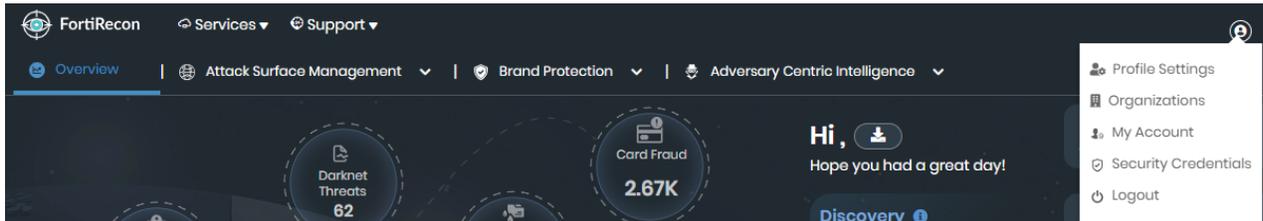
Profile	Displays information about your personal FortiRecon account. You can edit user idle timeout setting, view account details, upload your organization logo, and copy your API key for sharing. See Profile on page 203 .
Users	Displays account information for members of your organization. Administrators can add, edit, and delete user accounts. See Users on page 206
Access Templates	Allows the creation and editing of access templates. Access templates control the modules and sub modules available to users on FortiRecon. See Access templates on page 209 .
Audit Logs	Displays logs of all user actions performed within FortiRecon. See Audit Logs .
Downloads	Displays a list of all the files downloaded from FortiRecon in that last 30 days. You can download the files to your computer or delete unnecessary files. See Downloads on page 214 .
Integrations	Displays the webhook integrations with Microsoft Teams and Slack. You can create, edit, disable, and delete integrations. See Integrations on page 215 .
Seeds	Displays the business names, domains, card BINs, social media profiles, and mobile applications of your organization that are being monitored by FortiRecon. See Seeds on page 218 .
Notification Center	Displays the current notification settings for all the modules assigned to you. You can view, search, and enable or disable notifications. See Notification Center on page 223 .

Accessing profile settings

You can access the *Profile Settings* from any page by selecting the menu in the top-right corner.

To access profile settings:

1. Hover over the profile menu in the top-right corner, and select *Profile Settings*.



The *Profile* page is displayed.

Profile

The *Profile* page provides information on your personal account information and allows you to customize settings. From the *Profile Settings > Profile* tab, you can:

- Edit user idle timeout setting. See [Editing user idle timeout on page 203](#).
- View information about your subscription, such as registered domains, target industries and geography, keywords, and your API key. See [Subscription Details on page 204](#).
- Modify your organization logo. See [Uploading Organization Logo](#).
- Copy your API key for sharing. See [Sharing the API key on page 206](#).

Editing user idle timeout

You can edit user idle timeout on the *Profile* page. To edit your personal information and other FortiRecon account users, see [Editing users on page 208](#).

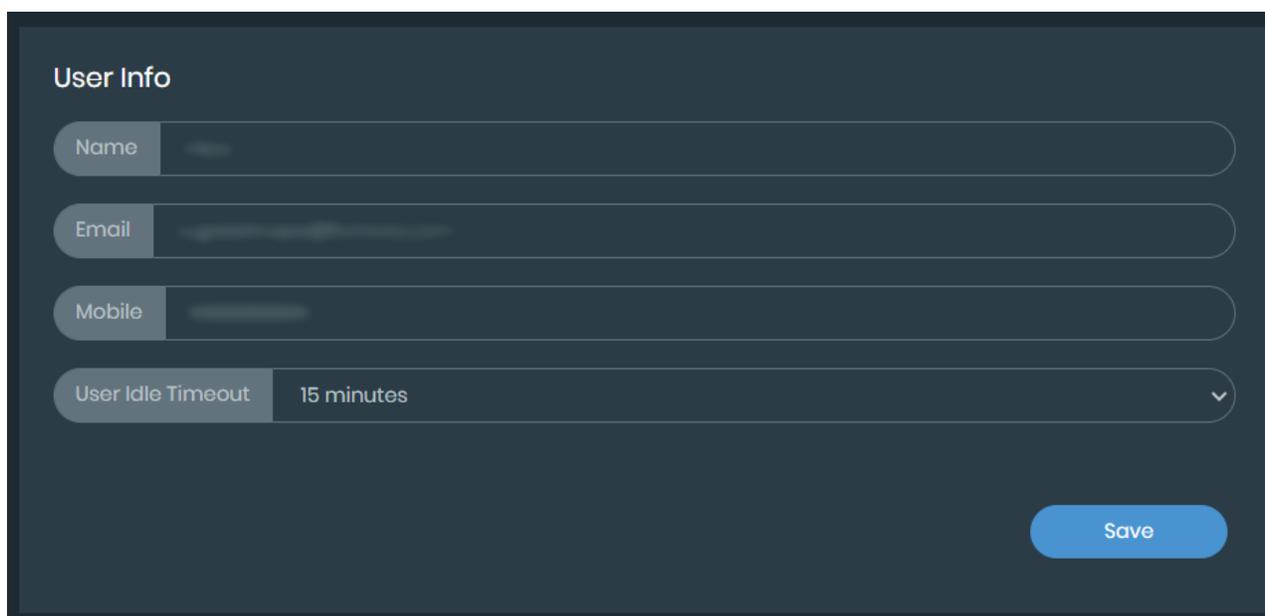
To edit personal user information:

1. Go to *Profile Settings > Profile*.
2. Select the timeout period you want from the *User Idle Timeout* dropdown.

3. Click Save.



By default, user idle timeout is set to *15 minutes*.



The screenshot shows a dark-themed 'User Info' settings panel. It contains four input fields: 'Name', 'Email', 'Mobile', and 'User Idle Timeout'. The 'User Idle Timeout' field is a dropdown menu currently set to '15 minutes'. A blue 'Save' button is located at the bottom right of the panel.

Subscription Details

Subscription Details provides information on your subscription, including organization ID, organization logo, license serial number, contract information, and your API key.

Subscription Details

Subscription 105/365 days
Aug 15, 2024 Aug 15, 2025

Customer **Industry**
Technology | Financial Services **Geography**
Global

Organization ID
[Redacted]

Organization Logo

API Key
[Redacted]

Please visit the [link](#) for API documentation | [Download Python SDK](#)

License Details

Serial Number	Contract Number	Subscription Date	Status
[Redacted]	[Redacted]	Aug 15, 2024 – Aug 15, 2025	Active
[Redacted]	[Redacted]	Aug 16, 2023 – Aug 15, 2024	Expired

To view subscription details:

1. Go to *Profile Settings > Profile*.
2. Scroll to *Subscription Details* to view information on your:
 - Subscription
 - Customer
 - Industry
 - Geography
 - Organization ID
 - Organization Logo
 - API Key



To access the API documentation or download the Python SDK package, click on the links below the API key.

- License Details

Uploading Organization Logo

You can upload your organization logo in *Profile* tab.

To upload a logo:

1. Go to *Profile Settings > Profile*.
2. Click edit icon next to *Organization Logo* section in *Subscription Details*.
3. Browse and select the logo.
4. Click *Save*.

Sharing the API key

You can copy your API key to your clipboard to share with others or use in other software.

To copy your API key:

1. Go to *Profile Settings > Profile*.
2. Click *Copy* in *Subscription Details*. The API key is copied to your clipboard.

Users

Multiple FortiRecon accounts can be created for an organization in the *Users* pages. The following roles are available for FortiRecon accounts:

- *User*: Has access limited to what is included in the assigned access template.
- *Guest*: Has read-only access to what is included in the assigned access template.
- *Admin*: Has administrative access over other accounts.



Only administrators can add and make changes to other accounts.

From the *Profile Settings > Users* page, you can:

- View all user accounts for your organization. See [Viewing user accounts on page 206](#).
- Add new users. See [Adding users on page 207](#).
- Edit existing users. See [Editing users on page 208](#).
- Delete users. See [Deleting users on page 209](#).

Viewing user accounts

You can view all of the current users for your organization on the *Users* page. User information listed for all users includes:

- Name
- Role
- Email
- Phone Number

To view user accounts:

1. Go to *Profile Settings > Users*.
2. Search for keywords:
 - a. In the *Type and hit Enter to Search* box, type a name or email, and press *Enter*.
The user accounts are filtered to display only accounts with the keyword.
 - b. Click the X beside the keyword to remove the filter.

Adding users

Administrators can add new user accounts. Before you add new users, define access templates to select in the user accounts. See [Access templates on page 209](#).

You can add new user accounts using either email addresses or Identity and Access Management (IAM) details.

To add a user account using email:

1. Access *Profile Settings*, and click the *Users* page. The users are displayed.
2. Click the *Add User* button. The *User Info* page is displayed.
3. Enable *Email* toggle and complete the following options, and click *Next*.

Name	Type a name for the user.
Mobile	Type the mobile phone number for the user.
API Key	Displays the automatically generated API key for the user.
Email	Type the email address, and select the domain for the user.
Role	Select one of the following roles: <ul style="list-style-type: none"> • <i>User</i>: gives the user access to the modules defined to their account. • <i>Guest</i>: gives the user read-only access to the modules defined to their account. • <i>Admin</i>: gives the user access to the modules defined to their account and administrative access over other accounts.

The *Permissions* page is displayed

4. Select a *User Template* from the dropdown. The *Main Modules*, *Sub Modules*, and *Access* are adjusted to the template's settings.
5. Click *Save*. The user is created.

To add an IAM user:

1. Access *Profile Settings*, and click the *Users* page. The users are displayed.
2. Click the *Add User* button. The *User Info* page is displayed.
3. Enable *IAM* toggle and complete the following options, and click *Next*. IAM user must be created in support.forticloud.com. See [Adding IAM Users](#).

IAM User Name	Enter the configured IAM user name.
IAM Accountid	Enter IAM account id.
Name	Type a name for the user.
Mobile	Type the mobile phone number for the user.
API Key	Displays the automatically generated API key for the user.
Email	Type the email address, and select the domain for the user.
Role	Select one of the following roles: <ul style="list-style-type: none"> • <i>User</i>: gives the user access to the modules defined to their account. • <i>Guest</i>: gives the user read-only access to the modules defined to their account. • <i>Admin</i>: gives the user access to the modules defined to their account and administrative access over other accounts.

4. The *Permissions* page is displayed
5. Select a *User Template* from the dropdown. The *Main Modules*, *Sub Modules*, and *Access* are adjusted to the template's settings.
6. Click *Save*. The user is created.

Editing users

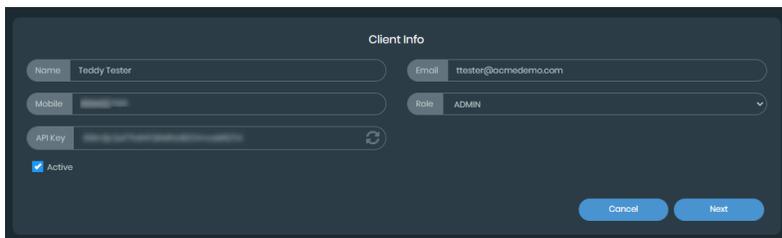
All organization members with FortiRecon accounts are listed on the *Users* page. Administrators can edit the information of other members.



You cannot edit an email address.

To edit a user account:

1. Go to *Profile Settings > Users* and find the account you want to edit.
2. Click *Edit*. The *Client Info* page is displayed.



3. On the *Client Info* page, complete any of the following options as needed, and click *Next*.

Name	Type a new name for the user.
Mobile	Type a new mobile phone number for the user.

API Key	Select <i>Re-generate API</i> to create a new <i>API Key</i> . This can be done when it is suspected that the <i>API Key</i> has been compromised or leaked.
Role	Select a new role from the <i>Role</i> dropdown.

The *Permissions* page is displayed.

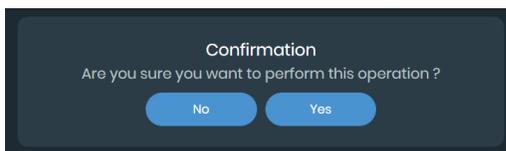
4. Select a new *User Template* from the dropdown, if needed. The *Main Modules*, *Sub Modules*, and *Access* are adjusted to the template's settings.
5. Click *Save*. The user information and access permissions are updated.

Deleting users

Administrators can delete the account of another member on the *Users* page.

To delete a user account:

1. Go to *Profile Settings > Users* and find the account you want to delete.
2. Click *Delete*. A confirmation message is displayed.



3. Click *Yes*. The account is deleted.

Access templates

Access templates are used for controlling user accounts. When you create an access template, you can define what modules and sub modules a user can access, and then you can assign the access template to user accounts. See [Adding users on page 207](#)

From the *Profile Settings > Access Template* page, you can:

- View available access templates. See [Viewing access templates on page 209](#).
- Add a new access template. See [Adding a template on page 210](#).
- Edit an existing access template. See [Editing a template on page 211](#).

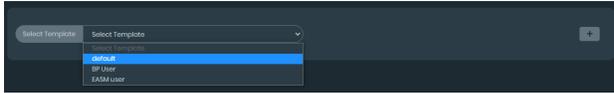
Viewing access templates

You can view the settings assigned to an access template in the *Access Templates* page. Assigned *Main Modules*, *Sub Modules*, and *Access* settings appear in the following formats:

- Grey: The Sub Module is a default setting that is always included if the Main Module is selected.
- Blue: The feature has been intentionally selected from the optional features.

To view an access template:

1. Go to *Profile Settings > Access Templates*.
2. Click the *Select Template* dropdown. A list of existing access templates is displayed.



3. Select the template you want to view. The template is displayed.

Adding a template

You can create new templates in the *Access Templates* page, and they can include any of the *Main Modules*, specific *Sub Modules*, and *Access* settings.

While all *Access* settings are optional, the following *Sub Modules* are mandatory when the associated *Main Module* has been selected:

Main Module	Mandatory Sub Modules
EASM	Dashboard
IASM	Dashboard
Brand Protection	Dashboard
Adversary Centric Intelligence	Dashboard and Reports

To create an access template:

1. Go to *Profile Settings > Access Templates*.
2. Click *Add Template*. The *Add Template* page is displayed.

Main Modules	Sub Modules	Access
<input checked="" type="checkbox"/> EASM	<input checked="" type="checkbox"/> Dashboard <input checked="" type="checkbox"/> Asset Discovery <input checked="" type="checkbox"/> Asset Management <input checked="" type="checkbox"/> Security Issues <input checked="" type="checkbox"/> Leaked Credentials <input checked="" type="checkbox"/> Integrations	
<input checked="" type="checkbox"/> IASM	<input checked="" type="checkbox"/> Dashboard <input checked="" type="checkbox"/> Asset Discovery <input checked="" type="checkbox"/> Asset Management <input checked="" type="checkbox"/> Security Issues <input checked="" type="checkbox"/> Integrations	
<input checked="" type="checkbox"/> Brand Protection	<input checked="" type="checkbox"/> Dashboard	

3. Enter a name in the *Template Name* text box.
4. Select the *Main Modules*, *Sub Modules*, and *Access* fields to enable user access to them.
5. Clear the *Main Modules*, *Sub Modules*, and *Access* fields to disable user access to them.
6. Click *Add*. The template is created.

Editing a template

You can edit a template that has previously been created to add or remove *Modules*, *Sub Modules*, and *Access* settings.

To edit an access template:

1. Go to *Profile Settings > Access Templates*.
2. From the *Select Template* dropdown, select the template you want to edit. The template is displayed.
3. Enter a new name in the *Template Name* text box, if needed.
4. Select the new *Main Modules*, *Sub Modules*, and *Access* fields to enable access to them.
5. Clear the *Main Modules*, *Sub Modules*, and *Access* fields to disable access to them.
6. Click *Save*. The template is updated.

Audit Logs

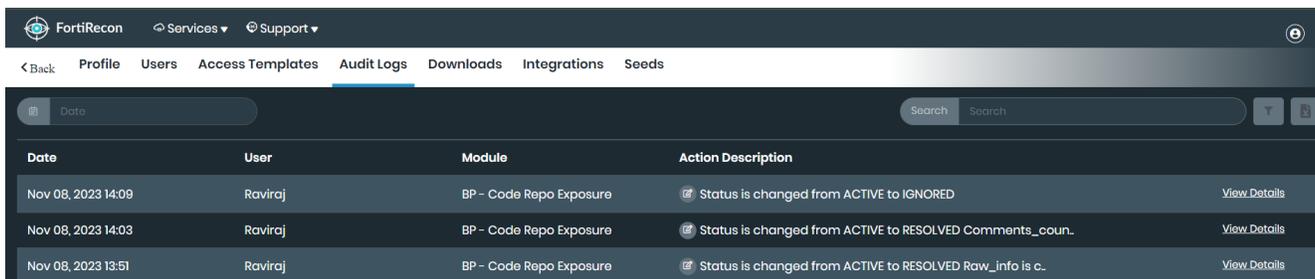
The Audit Logs page provides a comprehensive overview of all activities performed within FortiRecon, allowing you to track user actions, monitor changes made to your organization's data, and maintain compliance with security regulations.

From *Profile Settings > Audit Logs* tab, you can:

- View the audit logs. See [Viewing the audit logs](#).
- Apply filters to the list of audit logs to view specific logs. See [Filtering audit logs](#).
- Export audit logs to an Excel file. See [Exporting audit logs](#).

Viewing audit logs

Audit logs capture detailed information about every action taken within FortiRecon, including the date and time of the action, the user responsible, FortiRecon module, and the action description.

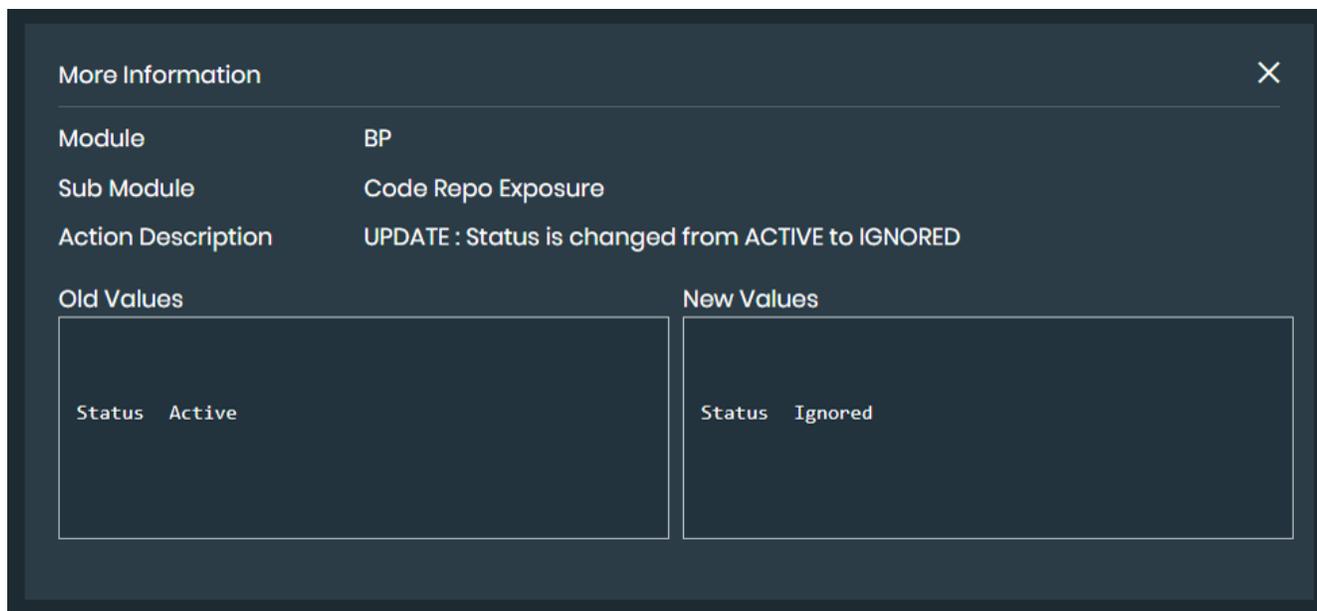


To view audit logs:

1. Go to *Profile Settings > Audit Logs*.
2. Apply the required filters. See [Filtering audit logs](#).
3. Click *View Details* next to a desired audit log to view detailed information.

More Information window displays detailed audit log information including:

- *Module*
- *Sub Module*
- *Action Description*
- *Old Values*
- *New Values*



Filtering audit logs

By default, the *Profile Settings > Audit Logs* page displays all audit logs, starting with most recent log. You can use filters to display specific logs.

To filter audit logs:

1. Go to *Profile Settings > Audit Logs*.
 - a. Filter audit logs by a date range:
 - b. Click *Date* field. Two calendars are displayed.
 - c. In the left calendar, select a month, year, and day to specify the start date of the range.
 - d. Select a month, year, and day to specify the end date of the range.
 - e. Only audit logs from the date range are displayed.
 - f. Click the *Date* field, and click *X* to remove the date range filter.
2. Search for keywords:
 - a. In the *Type and hit Enter to Search* box, type a keyword, and press *Enter*.
 - b. The audit logs are filtered to display only logs with the keyword.
 - c. Click the *X* beside the keyword to remove the filter.
3. To filter the audit logs by *Module*, *Sub Module*, or *User*, click the *Filter* icon, select the desired filters, and then click *Apply Filters*. To clear the applied filters, click the *Filter* icon and deselect the filters.

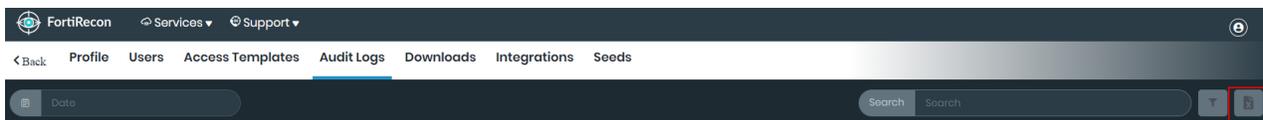
Exporting audit logs

You can export a list of audit logs into an Excel file. The spreadsheet will include the information on:

- Date
- User
- Module
- Sub Module
- Action Description

To export the audit logs:

1. Go to *Profile Settings > Audit Logs*.
2. Optionally, apply the required filters to export specific logs. See [Filtering audit logs](#).
3. Click *Download* icon. The file is downloaded to your computer.



Downloads

Files downloaded from *EASM*, *Brand Protection*, and *Adversary Centric Intelligence* are saved in the *Downloads* page. Files are saved in a list with the most recently downloaded files at the top.

From the *Profile Settings > Downloads* page, you can:

- View all downloads from the past 30 days. See [Viewing downloads on page 214](#).
- Retrieve downloads from the past 30 days. See [Retrieving downloads on page 215](#).
- Delete downloads. See [Deleting downloads on page 215](#).

Viewing downloads

You can view all of your downloads from the past 30 days.

To view downloads:

1. Go to *Profile Settings > Downloads*. The most recent downloads are displayed.
2. From the *Records per page* dropdown list, select the number of downloads to display on the page.



3. Navigate between pages by selecting *Previous* and *Next*.



Retrieving downloads

You can retrieve downloaded files in the *Downloads* page.

To retrieve a downloaded file:

1. Go to *Profile Settings > Downloads* and find the file you want.
2. Click the file in the *Download* column. The file is downloaded to your computer.



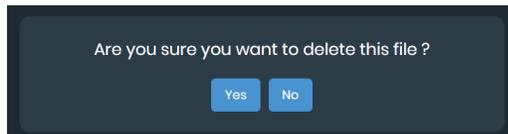
If a file is not finished downloading, an update message is displayed when you hover your mouse over the file. You cannot click the file until it is finished downloading.

Deleting downloads

Downloaded files are automatically deleted after 30 days. However, you can manually delete files if needed.

To delete downloaded files:

1. Go to *Profile Settings > Downloads* and find the file.
2. Click the delete icon in the *Actions* column. A confirmation message is displayed.



3. Click Yes. The file is deleted.

Integrations

You can use webhook integration to receive automated alert and report notifications over Microsoft Teams and Slack. For example, if you have flash reports configured for a Slack integration, when a flash report appears on FortiRecon, you receive an automated notification on your Slack account.

From the *Profile Settings > Integrations* page, you can:

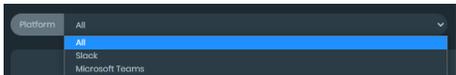
- View the details of existing integrations. See [Viewing integration details on page 215](#).
- Create new integrations. See [Adding integrations on page 216](#).
- Edit existing integrations. See [Editing integrations on page 217](#).
- Disable integrations. See [Disabling integrations on page 217](#).
- Delete integrations. See [Deleting and disabling integrations on page 218](#).

Viewing integration details

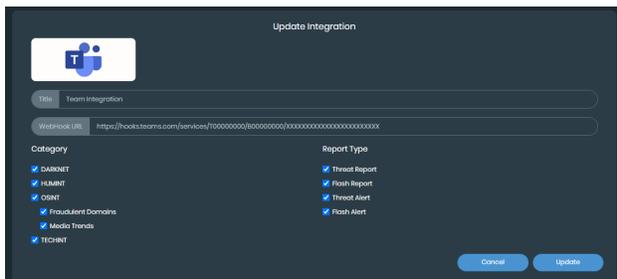
You can view the details of an integration in the *Integrations* page.

To view the details of an integration:

1. Go to *Profile Settings > Integrations*.
2. Find the integration you want to view:
 - a. Search for keywords:
 - i. In the *Type and hit Enter to Search* box, type a keyword, and press *Enter*.
The integrations are filtered to display only integrations with the keyword.
 - ii. Click the *X* beside the keyword to remove the filter.
 - b. Search by platform:
 - i. Select the *Platform* dropdown. A list of available integration platforms is displayed.



- ii. Select the platform you want to view.
The integrations are filtered to display only integrations for that platform.
3. Click the name or icon of the integration. The *Update Integration* page displays the integration details.



Adding integrations

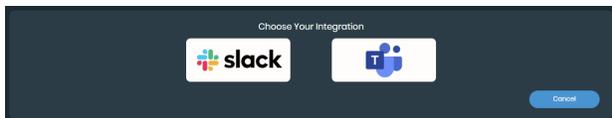
You can add multiple webhook integrations to your account in FortiRecon.



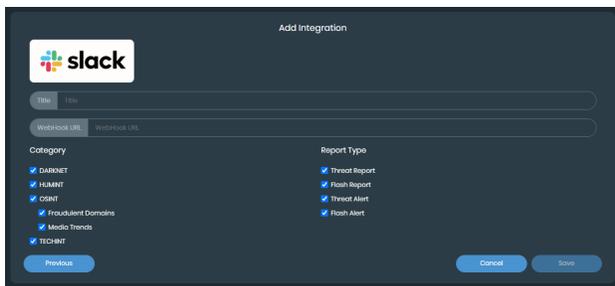
You must retrieve the webhook URL from Microsoft Teams and Slack before adding an integration to FortiRecon. See [Microsoft Teams Webhooks and Connectors](#) and [Slack API Sending messages using Incoming Webhooks](#) for more information.

To add an integration:

1. Go to *Profile Settings > Integrations*.
2. Click *Add Integrations*. The *Choose Your Integration* page is displayed.



3. Select the software you want to integrate with. The *Add Integration* page is displayed.



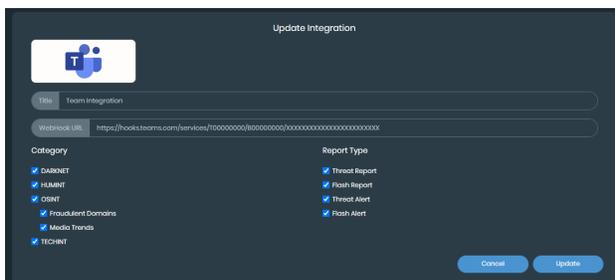
4. Enter the name of the integration in the *Title* text box.
5. Paste the webhook URL from the software into the *WebHook URL* text box.
6. Select the *Category* and *Report Type* fields that you want to include in the integration.
7. Clear any fields that you want to exclude from the integration.
8. Click *Save*. The integration is added.

Editing integrations

You can change the features and details of a webhook integration from the *Integrations* page.

To edit an integration:

1. Go to *Profile Settings > Integrations* and locate the integration.
2. Click the name or icon of the integration. The *Update Integration* page is displayed.



3. Edit the *Title* and *WebHook URL* text boxes, as needed.
4. Select the *Category* and *Report Type* fields that you want to include in the integration.
5. Clear any fields that you want to exclude from the integration.
6. Click *Update*. The webhook integration is updated.

Disabling integrations

You can temporarily disable unused integrations, and then enable them again in the future. The integration toggle allows you to enable and disable an integration as needed.

To disable an integration:

1. Go to *Profile Settings > Integrations* and find the integration.



2. Select the toggle to disable the integration. The notifications are no longer sent to the software.



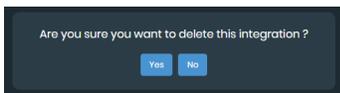
3. Select the toggle again to enable the integration.

Deleting and disabling integrations

You can delete unneeded webhook integrations.

To delete an integration:

1. Go to *Profile Settings > Integrations* and find the integration.
2. Click *Delete*. A confirmation message is displayed.



3. Click *Yes*. The integration is deleted.

Seeds

You can view your organization information in *Profile Settings > Seeds* page. *Seeds* page displays the information captured by FortiRecon during the following scenarios:

- Information you provide during onboarding.
- Any assets you add from *Attack Surface Management > EASM > Asset Discovery > Bulk Add/Remove Assets*.

The *Seeds* section is read-only. If you want to remove an asset (ASN /IP address /IP range/ domain/ sub domain) from *Seeds*, you must remove it from *EASM > Asset Discovery > Bulk Add/Remove Assets*.



Because *Seeds* is your initial input, the EASM module uses it to discover additional assets and populate them in *EASM > Asset Discovery*. The assets in *EASM > Asset Discovery* are then used to populate the data in Brand Protection and ACI modules.

From the *Profile Settings > Seeds* page, you can:

- View your organization's registered assets. See [Viewing your assets](#).
- Add, edit, and delete business names. See [Business Names](#).
- Add, edit, and delete all BIN numbers used by your organization to issue credit, debit, and gift cards. See [Card BIN](#).

Viewing your assets

On the *Seeds* page, you can view the business names, domain names, ASN, IP prefix, sub domains, card BINs, mobile apps, and social media profiles of your organization that are being monitored by FortiRecon. You can toggle between the following pages to view your organization's assets:

- Business Names
- Domains
- ASN
- IP Prefix
- IP Address
- Sub Domain
- Card BIN
- Owned Mobile Applications
- Social Media

To view your organization's assets:

1. Go to *Profile Settings > Seeds*.
2. Navigate between asset types by selecting desired tab.
3. Search for assets:
 - Navigate to one of the tabs, and search for a keyword in the *Search* box to look for entries specific to that asset type.

Business Names

You can add and manage business names that FortiRecon monitors for threats across various modules. Based on the selected module, FortiRecon uses the business name in the following ways:

- *EASM*: Identifies assets with matching certificate names or IP address ranges.
- *Domain Threats*: Detects domains that impersonate the brand.
- *Social Media Threats*: Identifies social media accounts that impersonate the brand.
- *Open Buckets*: Finds sensitive files exposed on the internet.
- *Intelligence Collection Lookup (ICL)*: Enhances threat intelligence gathering by adding the business name to the default ICL query.

From the *Profile Settings > Seeds > Business Names*, you can:

- Add business names. See [Adding business names](#).
- Edit or delete existing business names. See [Modifying business names](#).

Business Name	Modules	User Name	Tag	Created Date	Updated Date	Actions
acme.org	ICL, Open Buckets		Client	Nov 28, 2024	Nov 28, 2024	
acme	EASM, Domain Threat, Social Media Threat		Client	Nov 28, 2024	Nov 28, 2024	

Adding business names

You can add business names as needed. You must select at least one module for each business name.

To add a new business name:

1. Go to *Profile Settings > Seeds > Business Names*.
2. Click + add icon.
3. Enter a business name.
4. Select at least one module for the provided business name.
 - **EASM**: The business name added for this module will be used as keyword to identify assets that is using the same Certificate name and well as ASN/IP prefix owned by that name.
 - **Domain Threats**: The business name added for this module will be used to identify Brand impersonation on the domains that uses the same brand name on one of the identified impersonation page.
 - **Social Media Threats**: The business name added for this module will be used to identify brand impersonation on social media platforms.
 - **Open Buckets**: The business name added for this module will be used as keyword to identify publicly accessible files with the same name that are hosted on unprotected cloud storage platforms.
 - **Intelligence Collection Lookup (ICL)**: The business name added for this module will be used to identify the mentions on but not limited to *Darknet, Hactivist Telegram channels, Ransomware Post*, etc. This will modify existing business name keyword in the default query in ICL.
5. Click **Save**.

Business Names

Business Name acme

Please select at least one module for the provided business name

- EASM
- Domain Threats
- Social Media Threats
- Open Buckets
- Intelligence Collection Lookup (ICL)

EASM: The business name added for this module will be used as keyword to identify assets that is using the same Certificate name and well as ASN/IP prefix owned by that name.

BP-Domain Threats: The business name added for this module will be used to identify Brand impersonation on the domains that uses the same brand name on one of the identified impersonation page.

BP-Social Media Threats: The business name added for this module will be used to identify brand impersonation on social media platforms.

BP-Open Buckets: The business name added for this module will be used as keyword to identify publicly accessible files with the same name that are hosted on unprotected cloud storage platforms.

ACI-Intelligence Collection Lookup: The business name added for this module will be used to identify the mentions on but not limited to *Darknet, Hactivist Telegram channels, Ransomware Post*, etc. This will modify existing business name keyword in the default query in ICL.

Cancel Save

Modifying business names

You can edit or delete previously added business names.

To edit a business name:

1. Go to *Profile Settings > Seeds > Business Names*.
2. Click edit icon next to the desired business name.
3. Select or deselect the modules.
4. Click *Save*.

To delete a business name:

1. Go to *Profile Settings > Seeds > Business Names*.
2. Click delete icon next to the desired business name.
3. Click *Yes* in the confirmation dialog.

Card BIN

Providing your organization's card bank identification numbers (BINs) allows FortiRecon to monitor for card fraud by actors that may be trying to steal credit, debit, or gift card information. See [Card Fraud on page 160](#).



Card BIN information is needed only when your organization issues credit, debit, or gift cards.

From the *Profile Settings > Seeds > Card BIN* tab, you can:

- Add new card BINs. See [Adding a card BIN on page 221](#).
- Edit existing card BINs. See [Editing a card BIN on page 222](#).
- Delete existing card BINs. See [Deleting a card BIN on page 222](#).

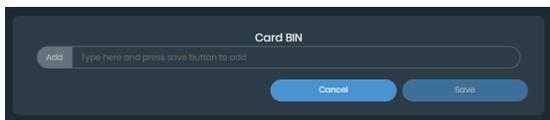
Card BIN	Created Date	Updated Date	Actions
[Redacted]	Aug 02, 2022	Aug 02, 2022	[Edit] [Delete]
[Redacted]	Aug 02, 2022	Aug 02, 2022	[Edit] [Delete]

Adding a card BIN

You can add new BINs in the *Card BIN* tab, as needed. BINs must be six to eight characters long.

To add a new card BIN:

1. Go to *Profile Settings > Seeds > Card BIN*.
2. Click *Add*. The *Card BIN* window is displayed.



3. Enter the BIN in the *Add* text box.
4. Click *Save*. The card BIN is added.

To bulk upload card BIN:

1. Go to *Profile Settings > Seeds > Card BIN*.
2. You can use a Microsoft Excel file to upload bulk information to the *Seeds* page. The Microsoft Excel file requires a specific format, and you can download a sample file to review the needed format. Select *Download Sample XLS* in the tab.
3. Select *Upload XLS* in the tab.



Your computer file explorer is displayed.

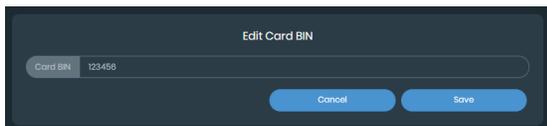
4. Select the file and click *Open*. The data entries are displayed in the selected *Seeds* tab.

Editing a card BIN

You can edit a pre-existing card BIN in the *Card BIN* tab.

To edit a card BIN:

1. Go to *Profile Settings > Seeds > Card BIN* and find the card BIN.
2. Click the edit icon in the *Actions* column. The *Edit Card BIN* window is displayed.



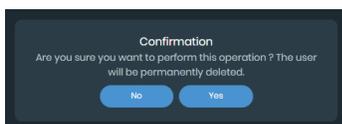
3. Edit the text in the *Card BIN* text box.
4. Click *Save*. The card BIN is edited.

Deleting a card BIN

You can delete BINs from the *Card BIN* tab. You can delete a single BIN or groups of BINs.

To delete a single card BIN:

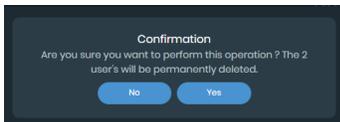
1. Go to *Profile Settings > Seeds > Card BIN* and find the BIN.
2. Click the delete icon in the *Actions* column. A confirmation message is displayed.



3. Click *Yes*. The BIN is deleted from the list.

To delete multiple card BINs:

1. Go to *Profile Settings > Seeds > Card BIN*.
2. Select the BINs by using one of the following methods:
 - Select the checkbox in the first row to select all BINs, and clear the checkbox beside any BINs that you want to keep.
 - Select the checkbox next to specific BINs to mark them for deletion.The *Delete Rows* icon becomes available.
3. Click *Delete Rows*. A confirmation message is displayed and lists the number of selected BINs.



4. Click *Yes*. The BINs are deleted from the list.

Notification Center

The *Notification Center* provides a centralized location for managing email notification settings within FortiRecon. You can view current settings, search for notifications, and enable or disable notifications based on your preferences. Administrators have additional privileges to view and modify notification settings for individual users.



All notifications are enabled by default.

From the *Profile Settings > Notification Center* page, you can:

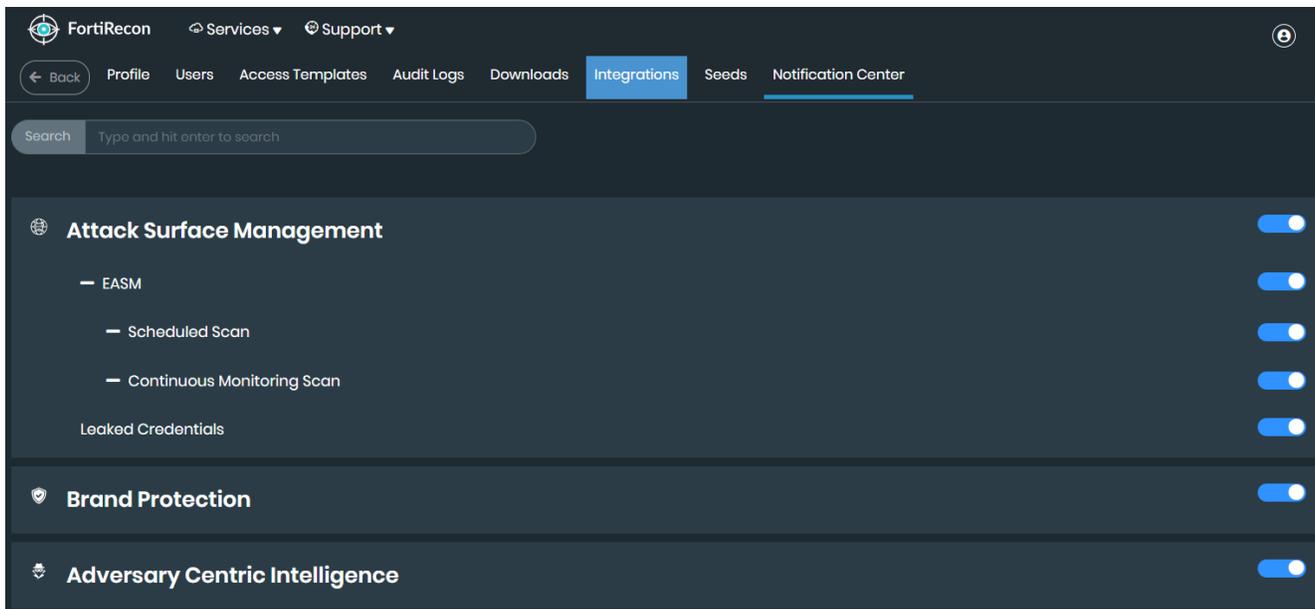
- View and edit your current notification settings. See [Viewing and managing notification settings](#).
- Customize notifications in Adversary Centric Intelligence module. See [Customizing notifications](#).
- Modify notification settings for other users as an Administrator. See [Managing notifications as an administrator](#).

Viewing and managing notification settings

You can view and edit your current notification settings in *Profile Settings > Notification Center* page.

To view and edit notification settings:

1. Go to *Profile Settings > Notification Center*.
2. Search for a specific notification or select a module to view its available notification settings.
3. Toggle *enable/disable* to activate or deactivate notifications.



Customizing notifications

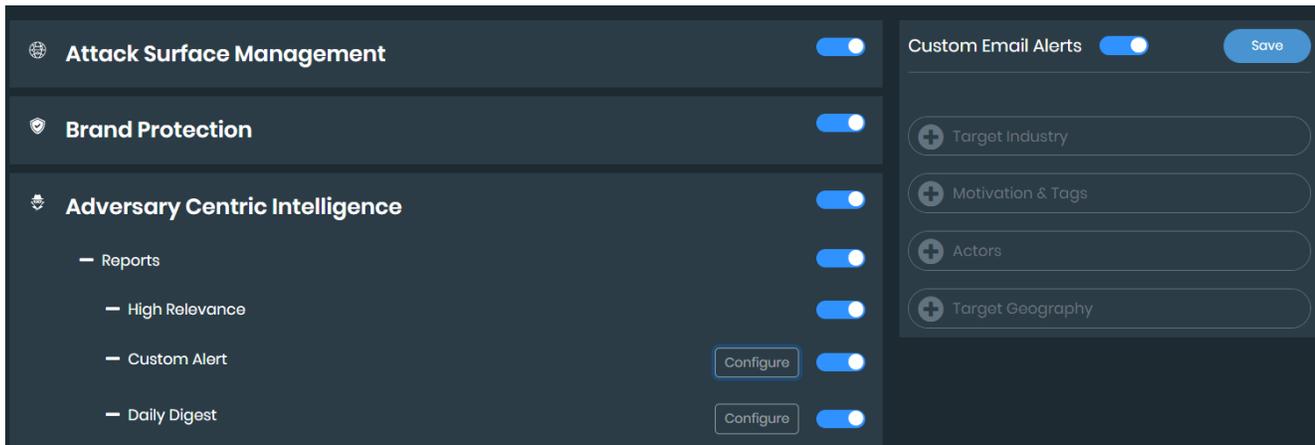
FortiRecon offers customization options for the following notifications. These configurations allow you to tailor your notifications to meet your requirements.

Module	Notification	Description
Adversary Centric Intelligence	Reports > Custom Alert	Customize by adding <i>Target Industry, Motivation, Tags, Actors, and Target Geography</i> .
	Reports > Daily Digest	Select the <i>Category, Report Type, Time and Time Zone</i> .
	Stealer Infections > Compromised System (Leaked)	Select <i>Employee and User</i> domains.
	Stealer Infections > Compromised System (On Sale)	Select <i>Domain</i> .
	Cyber Threats > List of Widgets	Select from the list of available widgets.
	Intelligence Collection Lookup > List of Queries	Select from the list of available queries.

To customize notifications:

1. Go to *Profile Settings > Notification Center*.
2. Search for a supported customizable notification or select a module to view its available notifications.
3. Click *Configure* next to the desired notification.

4. Provide the necessary details.
5. Click Save.

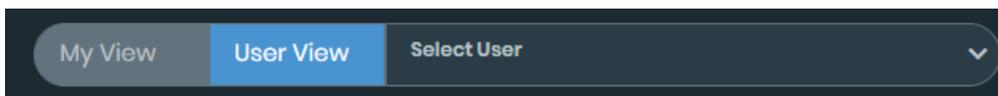


Managing notifications as an administrator

As an administrator, you have the privilege to view and modify notification settings for other users within your organization. This allows you to ensure that users receive notifications relevant to their roles and responsibilities.

To edit notification settings for other users:

1. Go to *Profile Settings > Notification Center*.
2. Select the *User View* option in top right corner.



3. Choose a user from the *Select User* dropdown.
4. Search for a specific notification or select a module to view its available notification settings.
5. Toggle *enable/disable* to activate or deactivate notifications.
6. Click *My View* to switch back to your own notification settings.



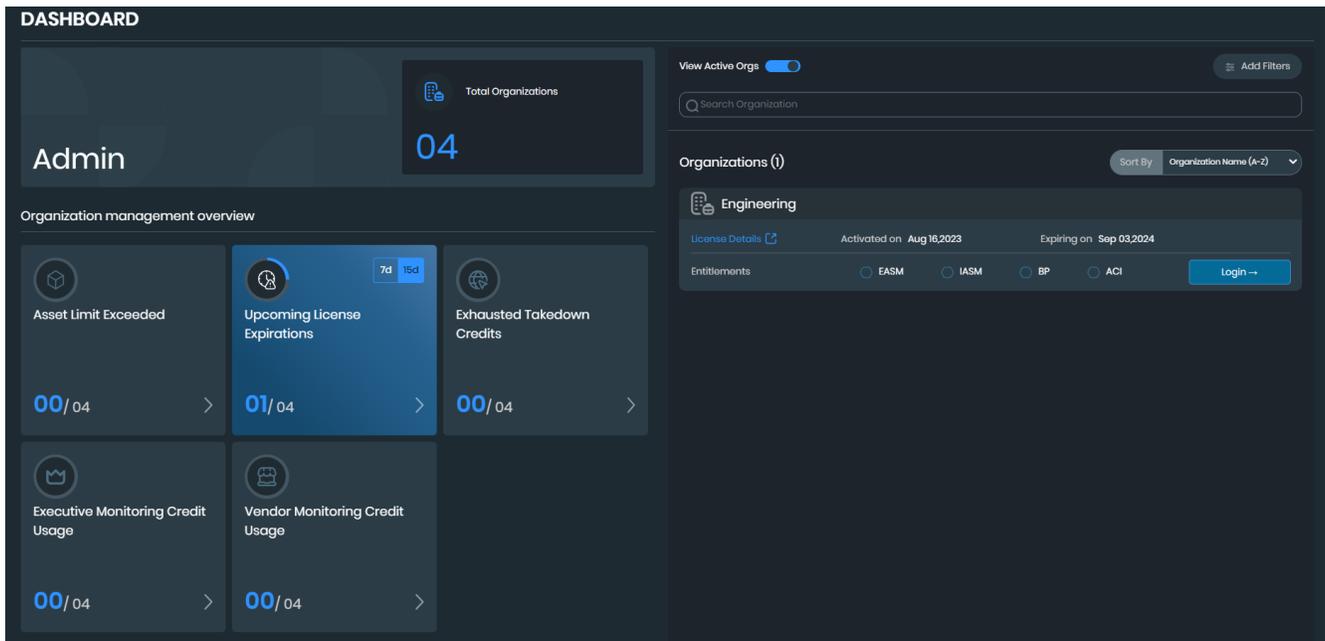
Any notification setting modified by an administrator can also be modified by the user.

Organization Dashboard

The Organization dashboard page provides a centralized view of all organizations you belong to and their associated licensing details.

You can select a specific organization and log in to access its corresponding FortiRecon portal. To switch between organizations, you can access *Organization* dashboard from the menu in the top-right corner of FortiRecon.

- [Filtering organizations](#)
- [Viewing licensing details](#)



Filtering organizations

To refine your view of organizations, you can use the following filtering options:

1. Toggle *View Active Orgs* to show or hide all active organizations.
2. Use search bar to search for a specific organization by name.
3. Click *Add Filters* to apply filters based on *Region*, *Country*, *Subscription Status*, and *Entitlements*.
4. Select predefined filters in *Organization management overview* section to filter organizations with *Asset Limit Exceeded*, *Upcoming License Expirations (7d or 15d)*, *Exhausted Takedown Credits*, *Executive Monitoring Credit Usage*, or *Vendor Monitoring Credit Usage*.
5. Use *Sort By* drop down to sort the filtered organizations.



- The *Provision Organization* option and *Add Filter > Provision Status* filter are only available to pAdmin user.
- If *New* filter is selected in *Add Filter > Provision Status*, all the other filters will be disabled.

Viewing licensing details

To view detailed licensing information for a specific organization, click *License Details* on the *Organization* dashboard page. The *License details* page displays the following information:

- Entitlements usage information including utilization count for *Exhausted Assets*, *Used Takedown Credits*, *Executives Monitored*, and *Vendor Credits*.
- License information including serial number and number of active contracts.
- License timeline displays *Active* and *Upcoming* license information, including contract period, entitlements, and contract number for each contract.

License details
✕

Engineering

Entitlements Usage

0/ Exhausted Assets	-9/202 Used Takedown Credits	0/10 Executives Monitored	1/25 Vendor Credits
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License Information

Serial Number [Copy to clipboard](#)

1

License timeline

Upcoming

Active

Aug 15,2024 – Aug 15,2025

Entitlements

EASM
 IASM
 BP
 ACI

Contract number

[Copy to clipboard](#)

Aug 16,2023 – Aug 15,2024

Entitlements

EASM
 IASM
 BP
 ACI

Contract number

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