



User Guide

FortiRecon 24.4.a



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November 29, 2024

FortiRecon 24.4.a User Guide

75-244-1101859-20241129

TABLE OF CONTENTS

Change Log	7
Introduction	8
Requirements	9
Acceptable FortiRecon use cases	9
Licensing	10
Upgrading Trial License	10
Renewing Expired License	12
Default alerts	12
Monitoring Service Status	13
Getting started	15
Registering the FortiRecon license	15
Subscribing to FortiRecon	16
Accessing FortiRecon portal	19
MSSP Onboarding	21
Prerequisites	21
Enabling Organization Portal	22
Onboarding as an MSSP	22
Creating an Organization	23
Creating a pAdmin account	24
Onboarding a MSSP Client	26
Creating an Organization Unit(OU)	26
Creating a MSSP Client Member Account	27
Creating an OUAdmin account	28
Transferring FortiPoints to FortiFlex points	30
Creating a FortiRecon configuration in FortiFlex	31
Creating a FortiRecon entitlement in FortiFlex	34
Provisioning FortiRecon	36
Managing Entitlements	37
User Roles	39
Overview	41
Viewing Digital Risk Posture	41
Digital Footprint Map	42
License Details	45
Trends Reporting	45
Top Threat Actors	45
Activities	46
Viewing MITRE ATT&CK Framework	46
Downloading Executive Report	48
Attack Surface Management	49
EASM	50
EASM Dashboard	50
EASM Security Issues	53
EASM Asset Discovery	59

EASM Asset Management	68
IASM	78
IASM Agent	79
IASM Dashboard	81
IASM Security Issues	84
IASM Asset Discovery	89
IASM Asset Management	91
Leaked Credentials	101
Viewing leaked credentials by year	101
Viewing leaked credential details	101
Viewing breached datasets	102
Exporting leaked accounts	103
Integrations	104
Adding integrations	104
Editing integrations	107
Brand Protection	108
Dashboard	109
Viewing the domain threat summary	109
Viewing the brand abuse summary	109
Viewing the information exposure summary	110
Viewing the alert summary	110
Viewing the takedown credit summary	111
Domain Threats	111
Reviewing domain threats	112
Managing domain threats	113
Filtering domains	113
Digital watermark	114
Adding a new domain threat	116
Social Media Threats	117
Reviewing social media threats	117
Managing social media threats	118
Filtering social media threats	118
Adding official profiles	119
Adding a new social media threat	120
Alerts	120
Rogue Mobile Apps	125
Reviewing rogue applications	125
Filtering rogue applications	126
Adding official applications	127
Assigning application status	128
Taking down rogue apps	128
Exporting rogue applications	129
Executive Monitoring	130
Reviewing executive profile threats	130
Filtering executive profile threats	131
Adding executive profiles	131
Code Repo Exposure	133
Managing keywords	133

Reviewing attributes	135
Managing attributes	135
Filtering attributes	136
Open Bucket Exposure	137
Reviewing files	137
Managing files	137
Filtering files	138
Take Down	138
Authority Letters	139
Reviewing takedown requests	142
Filtering takedown requests	143
Adversary Centric Intelligence	144
Dashboard	144
Changing the dashboard date range	145
Viewing risk exposure summary	145
Viewing global threat report summary	147
Reports	148
Analyst Reports	148
FortiAI Insights	155
Card Fraud	158
Viewing leaked card information	158
Filtering leaked card information	158
Exporting a list of leaked cards	159
Stealer Infections	160
Viewing leaked compromised systems	160
Viewing on sale compromised systems	161
Filtering stealer infection information	163
Exporting stealer infections data	165
OSINT Cyber Threats	165
Reviewing threats	166
Pinning events	167
Subscribing to event notifications	167
Adding subscriptions	169
Vulnerability Intelligence	170
Vulnerability exposure	170
Global notable vulnerabilities	173
Viewing and filtering CVE reports	174
Exporting CVEs	176
Manually adding CVEs	176
Ransomware Intelligence	177
Viewing ransomware intelligence	177
Filtering ransomware intelligence	183
Exporting ransomware information	185
Managing My Watchlist	185
Vendor Risk Assessment	187
Adding a new vendor to the watchlist	187
Viewing the vendor risk assessment	188
Intelligence Collection Lookup	190

Search Query	191
Search Results	195
Investigation	198
Reviewing IP address reputation	198
Reviewing domain reputation	199
Reviewing a file hash	199
Reviewing a CVE	199
Profile settings	200
Accessing profile settings	200
Profile	201
Editing user idle timeout	201
Subscription Details	202
Uploading Organization Logo	204
Sharing the API key	204
Users	204
Viewing user accounts	204
Adding users	205
Editing users	206
Deleting users	206
Access templates	207
Viewing access templates	207
Adding a template	207
Editing a template	208
Audit Logs	208
Viewing audit logs	209
Filtering audit logs	210
Exporting audit logs	211
Downloads	211
Viewing downloads	211
Retrieving downloads	212
Deleting downloads	212
Integrations	212
Viewing integration details	212
Adding integrations	213
Editing integrations	214
Disabling integrations	214
Deleting and disabling integrations	215
Seeds	215
Viewing your assets	216
Business Names	216
Card BIN	218
Notification Center	220
Viewing and managing notification settings	220
Customizing notifications	221
Managing notifications as an administrator	222
Organization Dashboard	223

Change Log

Date	Change Description
2024-10-29	Initial release.

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	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 50. 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 78.
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 108 .
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 144 .
Profile Settings	The Profile Settings module allows you to personalize your FortiRecon account and provide information on your organization. See Profile settings on page 200 .



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 on page 15](#) 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.
 - To access FortiRecon, Forticare or FortiCloud users must be sub users, not IAM users. IAM users are exclusively used for Organizations. See [MSSP Onboarding](#).
-

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 9](#) and [Licensing on page 10](#).
- 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 187](#).
- Bank identification numbers (BINs) should only be added for the licensed entity and brand. See [Card Fraud on page 158](#).

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.

Licensing

FortiRecon requires a license. 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.

Upgrading Trial License

During the trial period, you have two options for upgrading:

- 1. Purchasing a License:** You can purchase a license and add it to FortiRecon before the trial period expires. To add the purchased license, edit the serial and contract number fields in the *Profile Settings* page. Perform the following steps to add a license.
 - a. Go to *Profile Settings > Profile*.
 - b. Scroll to *Subscription Details*
 - c. Click edit icon next to *Contract Number*.
 - d. Enter license serial number and email address used to purchase the license.

License Details

Serial Number ^{*}

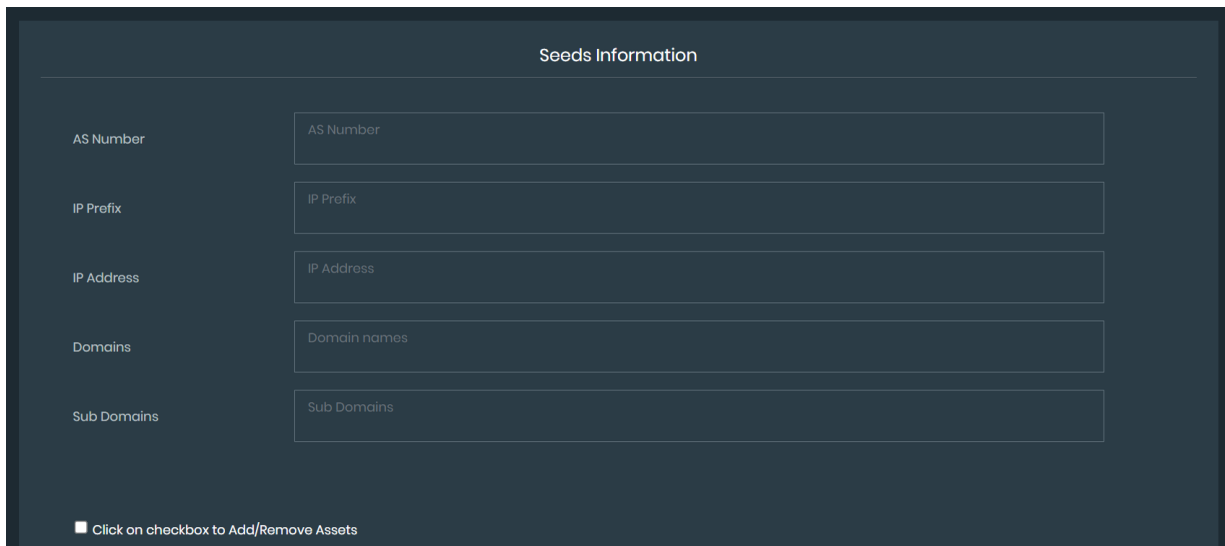
Email ^{*}

Cancel

Save & Next

- e. Click *Save & Next*.
- f. Enter seed information. Based on the license purchased you will be able to add an additional domain or modify

existing domain details. Select the *Add/Remove Assets* checkbox to add or remove assets.



Seeds Information

AS Number	
IP Prefix	
IP Address	
Domains	
Sub Domains	

☐ Click on checkbox to Add/Remove Assets

2. Expired Trial Period: If the trial period has already expired, attempting to log in will display an expiration page. In this case, you can purchase a license, and perform the following steps.

- a. Log in to FortiRecon. The license expiration page is displayed. Enter the following information.
 - License Serial.
 - Contract Number.
 - Email that was used to register the contract.
- 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.
- d. Once validated, enter the primary domain and click *Proceed*.
- e. A confirmation pop-up is displayed. Click *Use existing account* to continue with existing data, or click *Create new account* to create a new account.

If you select *Create new account*, the FortiRecon Provisioning form is displayed. For more information on completing provisioning form, see [Subscribing to FortiRecon](#).



Creating a new account will delete all previous data.

Confirmation

An Organisation with fortinet.com already exists. Would you like to use the existing account or create new account.

Note: Creating a new account will delete all previous data.

Use existing account

Create new account

Renewing Expired License

If your current license is expired, purchase a new license and perform the following steps to add it.

1. Log in to FortiRecon. The license expiration page is displayed. Enter the following information.
 - License Serial.
 - Contract Number.
 - Email that was used to register the contract.

FortiRecon subscription associated with this account has expired. If you have purchased the licence then please enter the license information below to proceed further

License Serial*

Email*

Contract Number*

Verify

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*.

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)	• New scan refresh • Leaked credentials present as part of a third party breach • Continuous monitoring refresh alert • Leaked credentials for new domain

Module	Alert
Internal Attack Surface Management (IASM)	• New scan refresh
Brand Protection (BP)	• 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)	• 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.fortirecon.forticloud.com/>.

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. Click *Subscribe To Updates* to receive notifications.

SUBSCRIBE TO UPDATES

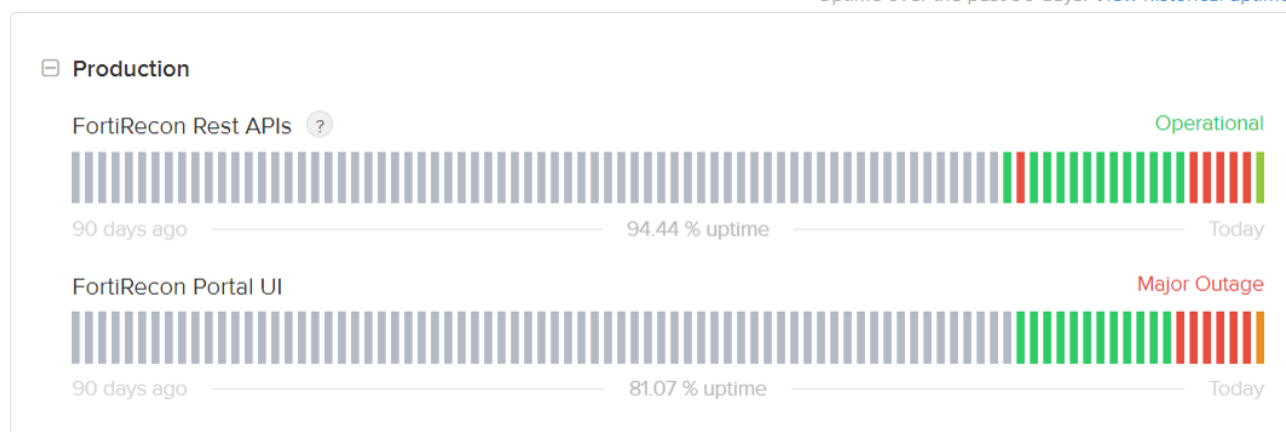
Login to FortiRecon portal failed

Subscribe

Investigating - We are currently investigating this issue.

Sep 26, 2023 - 11:09 UTC

The FortiRecon service uptime is displayed graphically for a period of 90 days. The downtime/outage events experienced by the service are indicated in colored bars; hover over each bar to view the details. Click *View historical uptime* to view the uptime/downtime experienced by the service in the past.

Uptime over the past 90 days. [View historical uptime.](#)

The historical incidents are listed in *Past Incidents* section.

Past Incidents

Sep 26, 2023

Login to FortiRecon portal failed

Resolved - This incident has been resolved.

Sep 26, 11:41 UTC

Monitoring - A fix has been implemented and we are monitoring the results.

Sep 26, 11:40 UTC

Identified - The issue has been identified and a fix is being implemented.

Sep 26, 11:39 UTC

Investigating - We are currently investigating this issue.

Sep 26, 11:09 UTC

Getting started

This section explains how to get started with FortiRecon.

When you first start with FortiRecon, you can:

- Register your FortiRecon license. See [Registering the FortiRecon license on page 15](#).
- Subscribe to FortiRecon and start the service. See [Subscribing to FortiRecon on page 16](#).

Registering the FortiRecon license

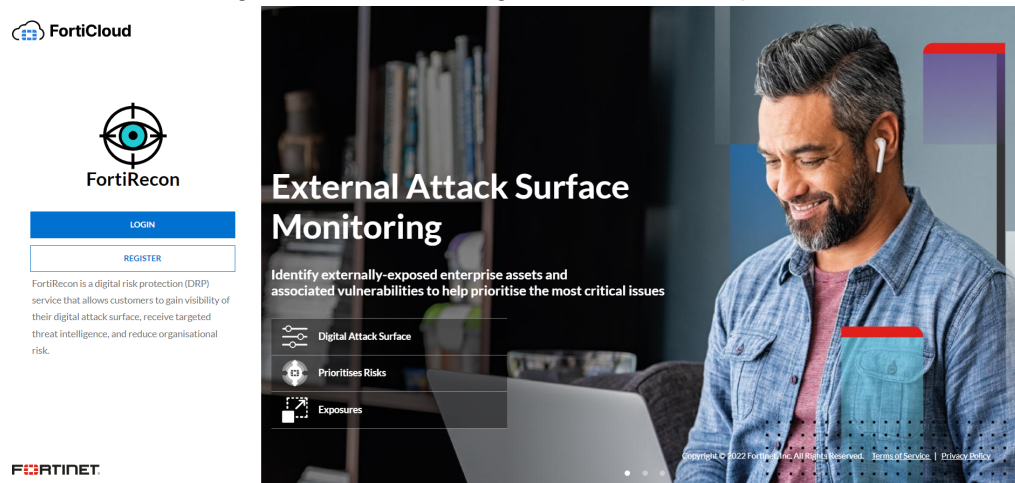
You must purchase and register a FortiRecon license before you can subscribe to FortiRecon. After you purchase the license, register the license using FortiCloud Account Services. For more information about registering products on FortiCloud, see the [FortiCloud Account Services > Registering products](#)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

Subscribing to FortiRecon

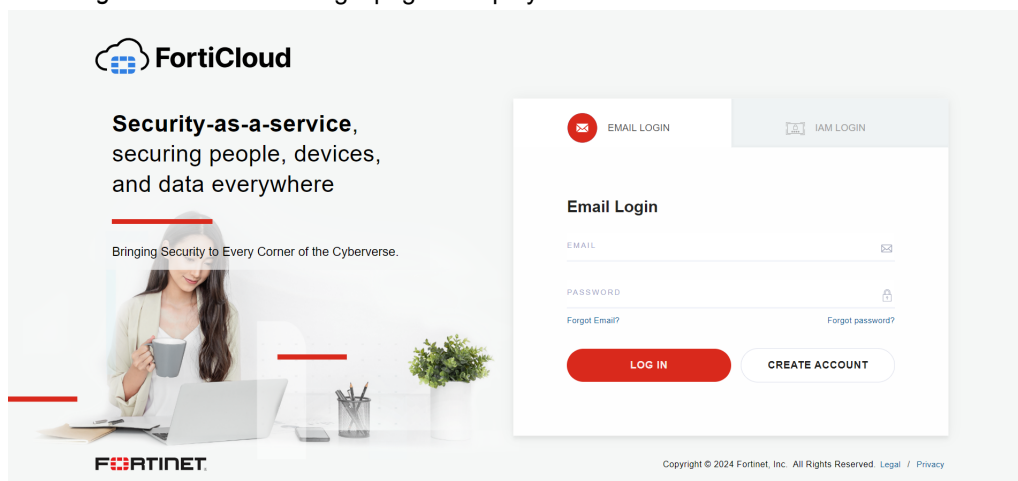
This section describes how to subscribe to FortiRecon and start the service. Before you can subscribe to FortiRecon, you must register the license. See [Registering the FortiRecon license on page 15](#).

To subscribe to FortiRecon:

1. After the license is registered on FortiCloud, go to FortiRecon at <https://fortirecon.forticloud.com>.



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



3. Enter your FortiCloud credentials.
4. After you log in to FortiRecon for the first time, the *FortiRecon Licensing* page is displayed. Enter the following information.
 - License Serial.
 - Contract Number.
 - Email that was used to register the contract.
5. Click *Verify*.

6. 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.
7. Once validated, enter the primary domain and click *Proceed*.

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

License Serial* [text input] Contract Number* [text input]

Email* [text input]

A One Time Password (OTP) has been sent to [text input] to validate ownership of the license. OTP will be valid for 5 Minutes

OTP* [text input] [refresh icon] [Validate button with green checkmark]

Please enter the Primary Domain

Primary Domain* [text input] [Proceed button with arrow]

8. The *FortiRecon Provisioning Form* is displayed.

FortiRecon Provisioning Form

The information requested in this form is required to provision your FortiRecon Service.

▼ Contact Information

Billing Contact

Name* [text input] Job Title [text input] Email* [text input]

Phone [text input] Mobile [text input]

☐ Is Technical Implementation Lead Information same as Billing Contact?

Technical Implementation Lead

Name* [text input] Job Title [text input] Email* [text input]

Phone [text input]

9. Enter the contact information of the billing contact in the *Billing Contact* fields.
10. 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.

11. Select the *Company Information* and *Initial Seed Information* dropdowns. New information fields are displayed.
12. Enter your organization's information in the *Company Information* fields. Click *Upload Company Logo* to browse and upload your organization's logo.

▼ Company Information

Company name* [text input] Company's Name in english ⓘ [text input] Website [text input]

Business Sector* ⓘ [dropdown menu] Region* [dropdown menu] Country* ⓘ [dropdown menu]

Partner/Reseller [text input] [Upload Company Logo button]

13. Enter your organization's assets information including primary, secondary and sub domains, IP addresses, IP range, ASN, assets to be excluded from monitoring, brand names, social media profile and mobile applications in

the *Initial Seed Information* fields.

▼ Initial Seed Information

IP Address and Domain Information

Primary Domain*

Secondary Domains

Enter multiple secondary domains on press of enter

Sub Domains

Enter multiple sub domains on press of enter

14. Enter Card BIN numbers. This is only for banking customers who issue credit or debit cards.

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

☒ Is your Organization a Financial Institution who issues Credit / Debit Cards to your clients?

Card BIN Numbers

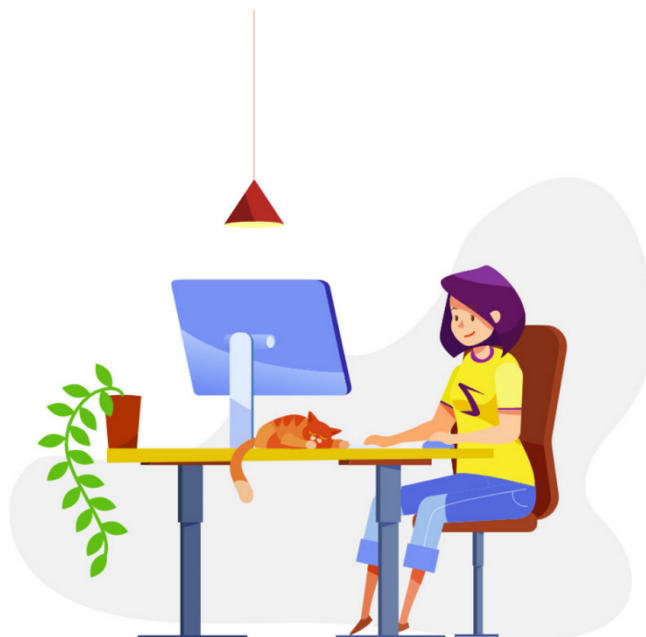
Enter multiple card bins on press of enter

15. Click **Save**. Your information will be sent to the FortiRecon team for review and provisioning. A confirmation page is displayed.

License is being provisioned

Admin is currently reviewing your form.
Confirmation mail will be sent to your registered email id within 7 working days.

[Logout](#)



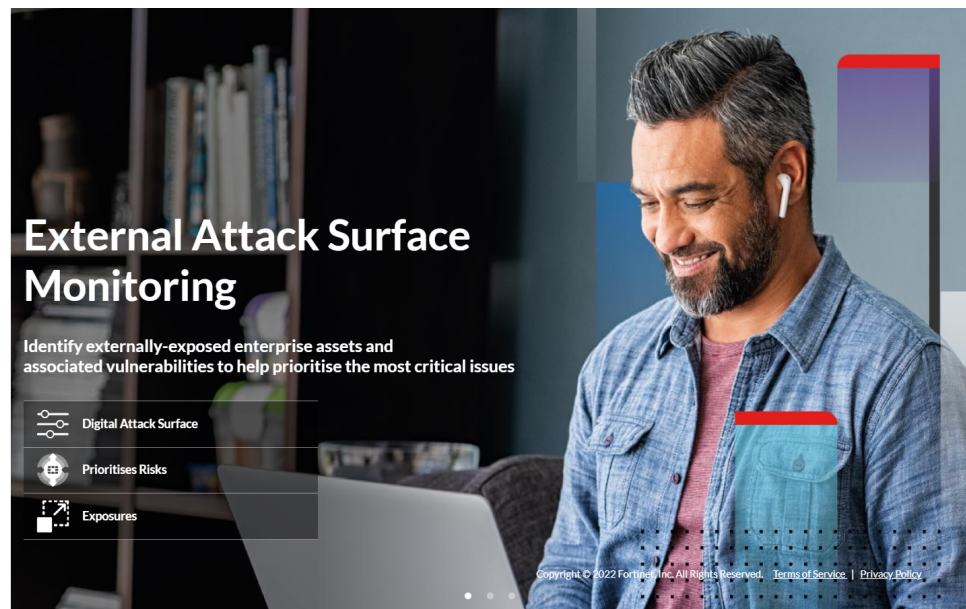
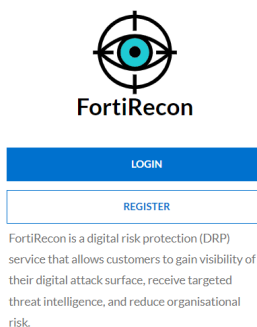
16. Wait for the FortiRecon team to analyze your assets and populate the FortiRecon portal for you.
17. When you receive an email from the FortiRecon team, you can access the FortiRecon portal and review the analysis. See [Accessing FortiRecon portal on page 19](#).

Accessing FortiRecon portal

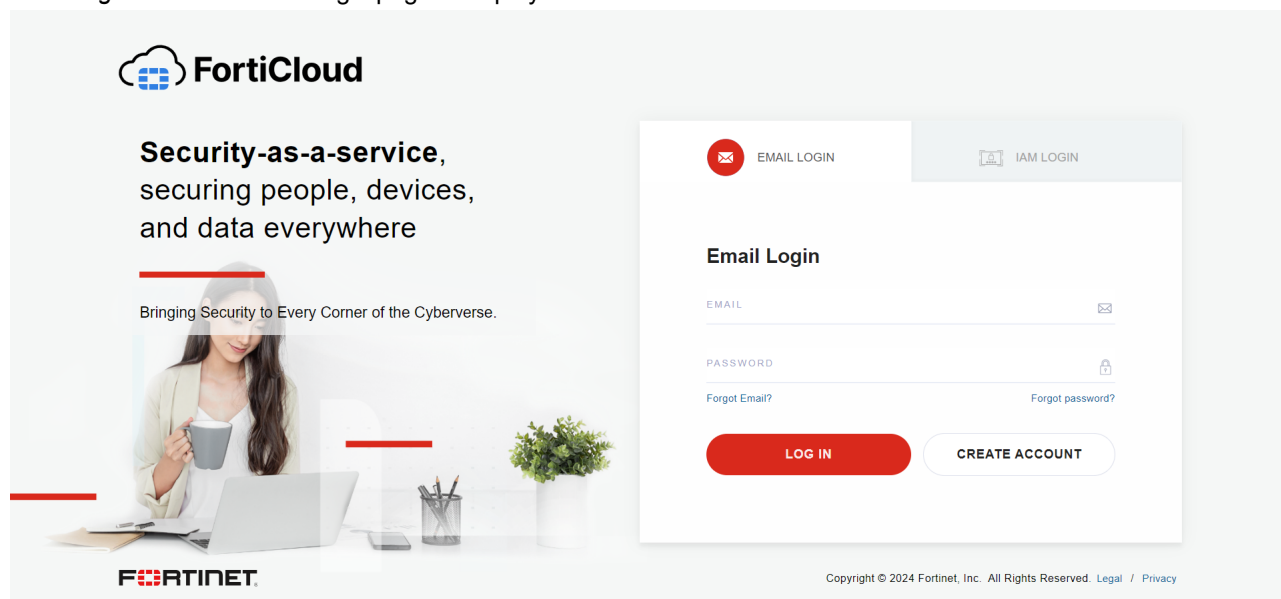
After you have subscribed to FortiRecon and received an email from the FortiRecon team, you are ready to access the FortiRecon portal.

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](#).

MSSP Onboarding

FortiRecon provides a streamlined onboarding process using *FortiFlex*, making it easier for Managed Security Service Providers (MSSPs) to onboard new clients. This simplified process benefits both MSSPs and their clients by reducing the time and complexity.

- [Prerequisites](#)
- [Onboarding as an MSSP](#)
- [Onboarding a MSSP Client](#)
- [Managing Entitlements](#)
- [User Roles](#)



Prerequisites

Before onboarding clients using FortiRecon and FortiFlex, ensure you have completed the following.

- The MSSP must create a *FortiCloud* account with *Premium* subscription. See [Creating a FortiCloud account](#).
- Enroll in either the *FortiFlex Enterprise* or *FortiFlex MSSP* program to enable FortiFlex in *FortiCloud Marketplace*.
- Purchase sufficient *FortiPoints* to cover the resources allocated to client deployments.
- Enable the *Organizations* portal within the FortiCloud account. See [Enabling Organization Portal](#).

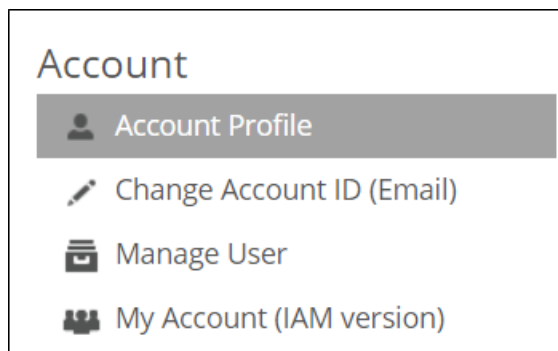


- To purchase a *FortiCloud Premium license*, *FortiFlex Enterprise*, *FortiFlex MSSP*, or *FortiPoints*, contact [Fortinet Support](#).
- Once you have purchased your licenses, register them in your FortiCloud account. See [FortiCloud Services Asset Management Guide > Registering Assets](#).
- You can 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](#).

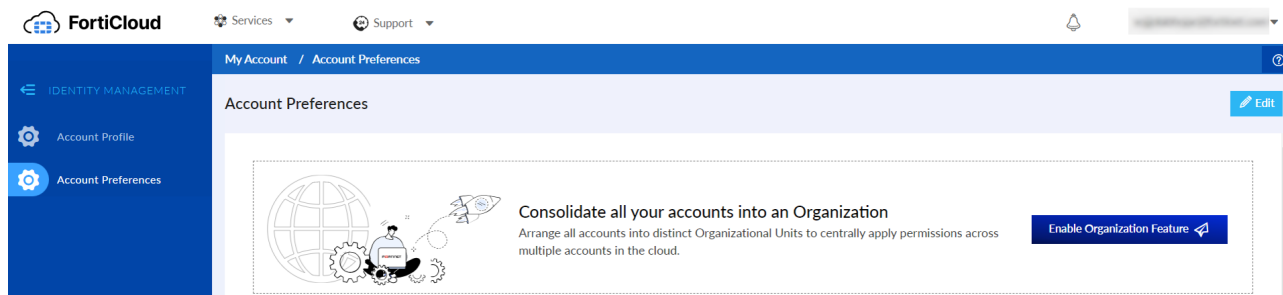
Enabling Organization Portal

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*.



Onboarding as an MSSP

To onboard as an MSSP, create a new organization within your FortiCloud account. Then, create a dedicated pAdmin account for managing your MSSP operations and client provisioning.

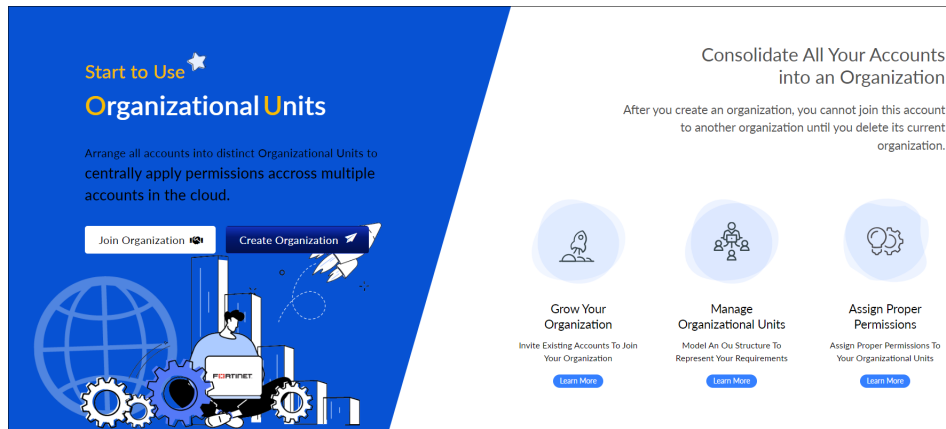
1. Create a new organization.
2. Create a pAdmin account.

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 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 MSSP Clients. 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*.

Permission Profiles / New Portal Permission Profile

New Portal Permission Profile

Cancel Submit

BASIC INFO

Permission Profile Name: *
pAdmin

Status: *
Active

Description
IAM user for root organization.

Select a Type
Choose the profile type as Local for limiting the profile to current account and Organization for OU accounts
Organization

PERMISSION PROFILE Add Portal

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

4. Create the pAdmin user account.

- Click *Add New > IAM User*. The *User Details* pane opens.
- 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 user's email address.
Phone	Select the country code from the drop down, and type the user's phone number.
Description (Optional)	Type a description of the user.

- Select the *Organization* user type from *Select A Type* drop down list.
- Set the *Permission Scope* to the *Root Organization*.
- 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*.

Onboarding a MSSP Client

Perform the following steps to onboard a new MSSP Client to FortiRecon.

1. [Create an Organization Unit\(OU\)](#).
2. [Create a MSSP Client Member Account](#).
3. [Create an OU Admin account](#).
4. [Transfer FortiPoints to FortiFlex points](#).
5. In FortiFlex,
 - a. [Create a FortiRecon configuration](#).
 - b. [Create a FortiRecon entitlement](#).
6. [Provision FortiRecon](#).

Creating an Organization Unit(OU)

Organizational Units (OUs) are folders used to organize your MSSP Clients 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 MSSP Client 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 for a MSSP Client.

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

3. Select *I want to use a real email* to input the email address of MSSP Client. Fields are displayed to enter the email address.
4. Select the MSSP Client 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

* Email	* Confirm Email
* Choose an OU FortiRecon/Client1 ▼	
* First Name	* Last Name
Title	* Company
* Address	* Country Select a Country ▼
* City	State/Province
ZIP/Postal Code	* Phone
Fax	Industry Industry ▼
Organization Size Organization Size ▼	

Cancel Submit

5. Configure the *New Member Account* dialog fields with MSSP Client 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 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 MSSP Client 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*.

Permission Profiles / New Portal Permission Profile

New Portal Permission Profile Cancel Submit

BASIC INFO

Permission Profile Name: * Status: *

Description

Select a Type
Choose the profile type as Local for limiting the profile to current account and Organization for OU accounts

PERMISSION PROFILE Add Portal

FortiRecon	IAM	Asset Management																																								
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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 user's email address.
Phone	Select the country code from the drop down, and type the user's phone number.
Description	Type a description of the user.

(Optional)

- c. Set the type to *Organization*.
- d. Set the *Permission Scope* to the respective *OU* of the MSSP Client.
- 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	Access Type	Additional Permission	Resources	Read Only	Read & Write	No Access	Resources	Read Only	Read & Write	No Access
✓	Admin		Entitlement Management ⓘ		✓		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 MSSP Client.

- **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.

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.

The screenshot shows the 'Transfer my FortiPoints to FortiFlex Points' page. On the left is a sidebar with 'ASSET MANAGEMENT' and options like Dashboard, Products, Marketplace, General, Spending, History, and Account Services. The main content area has a breadcrumb 'Marketplace / Spending / FortiFlex' and shows balances: FORTIFLEX POINTS BALANCE 7,964.11 and FORTIPOINTS BALANCE 10,400.00. A 'MEMO*' field contains 'Client1 FortiRecon Provisioning'. A message box states: 'Please note that points transfers are final and transferred points CANNOT be returned.' Below this is a table with conversion rates. On the right, 'FortiFlex Points wanted' is set to 6,000, and 'FortiPoints needed' is calculated as 7200.00. Buttons for 'Cancel' and 'Request Transfer' are at the bottom right.

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%



- 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 MSSP Client Member Account.

Make a Selection to Proceed

▼ FortiRecon

Fortinet

▼ Client1

Demo

Select

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*.

The screenshot shows the 'Manage Configuration' window for FortiRecon. The top navigation bar includes tabs for '1 Details', '2 Setup', '3 Review', and '4 Complete'. The main section is titled '1. Configuration Details' and contains two sub-sections: 'Set Configuration Details' and 'Select Product'.

In the 'Set Configuration Details' section, there is a 'Name' field with the value 'Client1 FortiRecon'.

In the 'Select Product' section, there are two rows of product options. The first row, labeled 'Form Factor', includes 'Virtual Machines' and 'Cloud Services' (which is selected). The second row, labeled 'Product Type', includes 'FortiWeb Cloud - Public', 'FortiClient EMS Cloud', 'FortiSASE', and 'FortiRecon' (which is selected). A 'FortiSIEM Cloud' option is also visible below the first row. At the bottom right, there is a 'Next >' button.

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 *

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.

7. 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 MSSP Client Member Account.

Make a Selection to Proceed

Q

▼

📁
FortiRecon

📄

Fortinet

▼

📁
Client1

📄

Demo

Select

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*.

Add Flex Entitlement(s)

1 Details
2 Confirmation
3 Complete
?

1. Flex Entitlement Details

Add Flex Entitlement(s)

Product Type: *

FortiRecon
▼

Configuration: *

FortiRecon Client 1
▼

Number of Flex Entitlements: *

1
↕

Description:

FortiRecon entitlement for Client 1

Termination Mode: *

☐
Follow Program

☒
User Defined

Expiration Date: *

31 / 12 / 2024
📅

Asset Folder: *

My Assets
▼

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



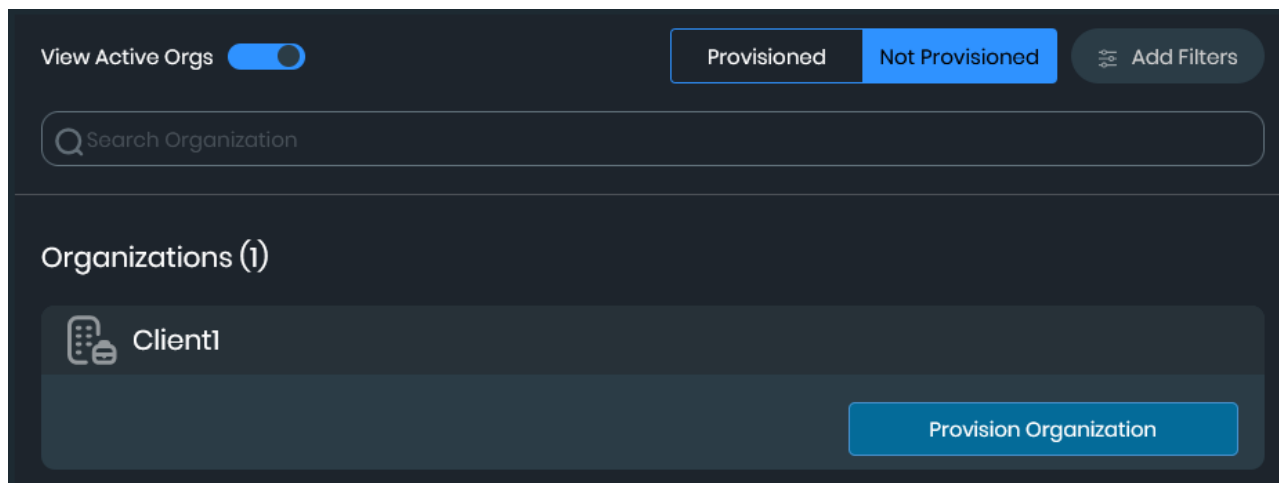
For more information on, see [Creating Cloud service entitlements](#) in *FortiFlex Administration Guide*.

Provisioning FortiRecon

Once the organization structure is created, IAM user is added, and FortiFlex entitlement created 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 and click **Save**.
 - a. 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.
 - b. In *Asset Distribution* section, the license and contract details will be retrieved from the FortiFlex entitlement. The subscription date and entitlements will be automatically filled.

c. Enter *Company Information* and *Initial Seed Information* details.

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.

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 MSSP Client 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 MSSP Client 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*.

Details

Points

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.		

Role	Access	Permission Scope	Description
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.

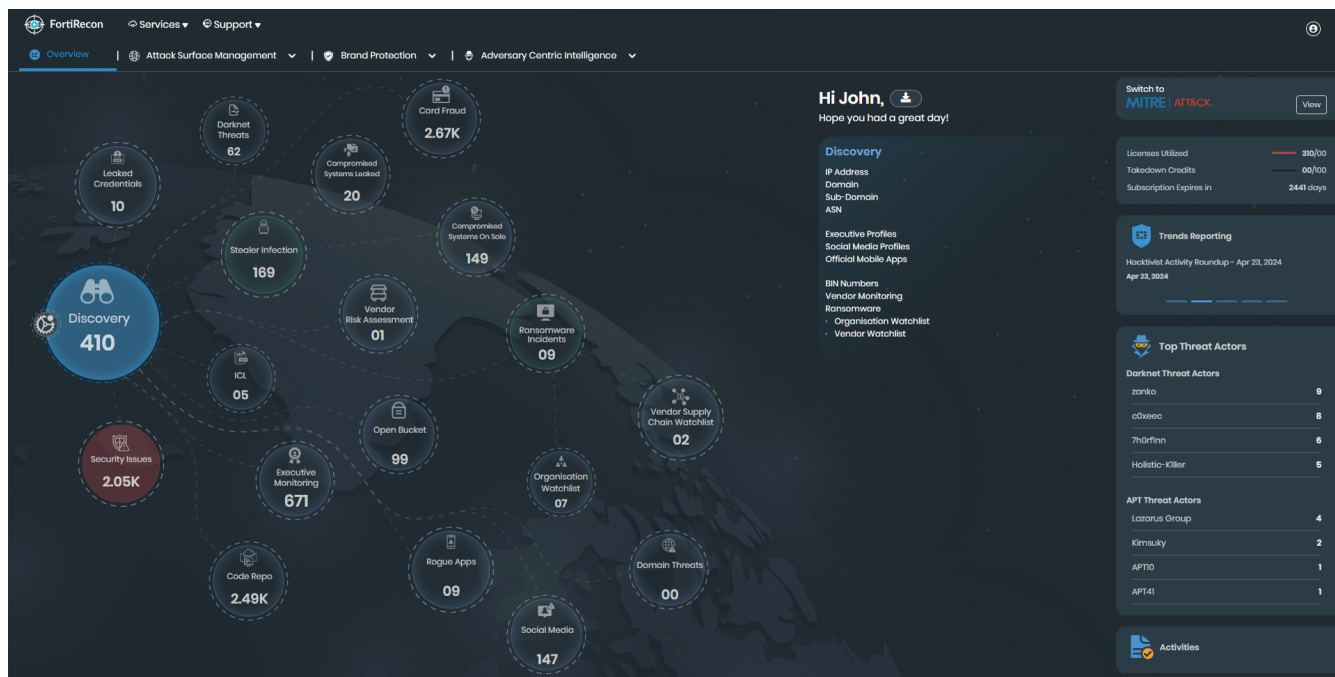
The *MITRE ATT&CK* view displays discovered data mapped onto corresponding techniques and sub-techniques, providing a valuable framework for understanding attacker motivations and potential attack paths. Click *View* on the *Overview* page to switch to MITRE ATT&CK view.



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

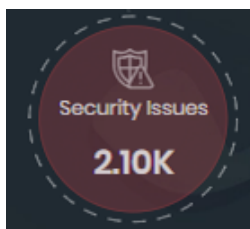
The digital footprint map is an interactive visualization tool that enables you to quickly identify and prioritize critical threats across *Attack Surface Management (ASM)*, *Brand Protection (BP)*, and *Adversary Centric Intelligence (ACI)* modules.



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	
IP Address	224
Domain	17
Sub-Domain	195
Total Integrations	01
Executive Profiles	06
Social Media Profiles	02
Official Mobile Apps	02
Vendor Risk Assessment	24
Ransomware	
Organisation Watchlist	74
Vendor Watchlist	21

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

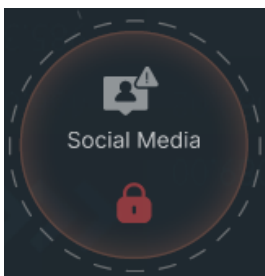


The digital footprint map includes the following information.

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. Click the bubble to view the count for each application store.	

Bubble	Description	License Required
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.	FortiRecon EASM, BP, and ACI.
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.	
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](#).



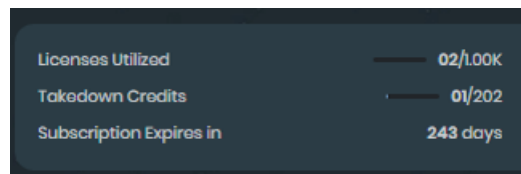
License Details

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.

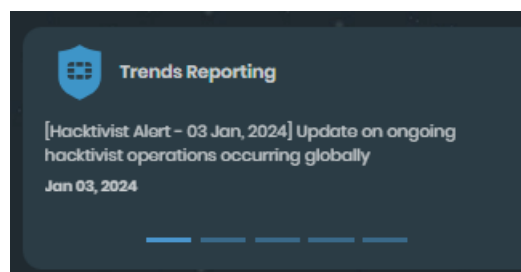
Subscription Expires in - Displays remaining days until your FortiRecon subscription expires.



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.

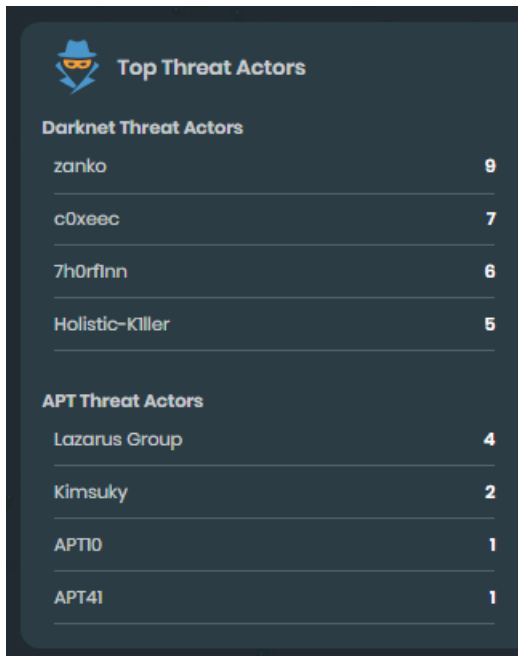
Click any report to view the detailed information.



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.



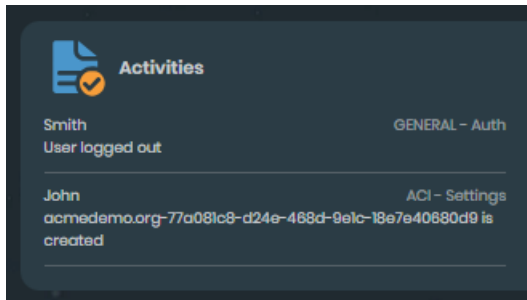
The widget titled "Top Threat Actors" features a blue icon of a person with a mask. It is divided into two sections: "Darknet Threat Actors" and "APT Threat Actors". Each section contains a table with two columns: the threat actor's name and a numerical value.

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.



The widget titled "Activities" features a blue icon of a document with a checkmark. It displays a log of recent activities with two entries. Each entry includes a user name, a description, and a category.

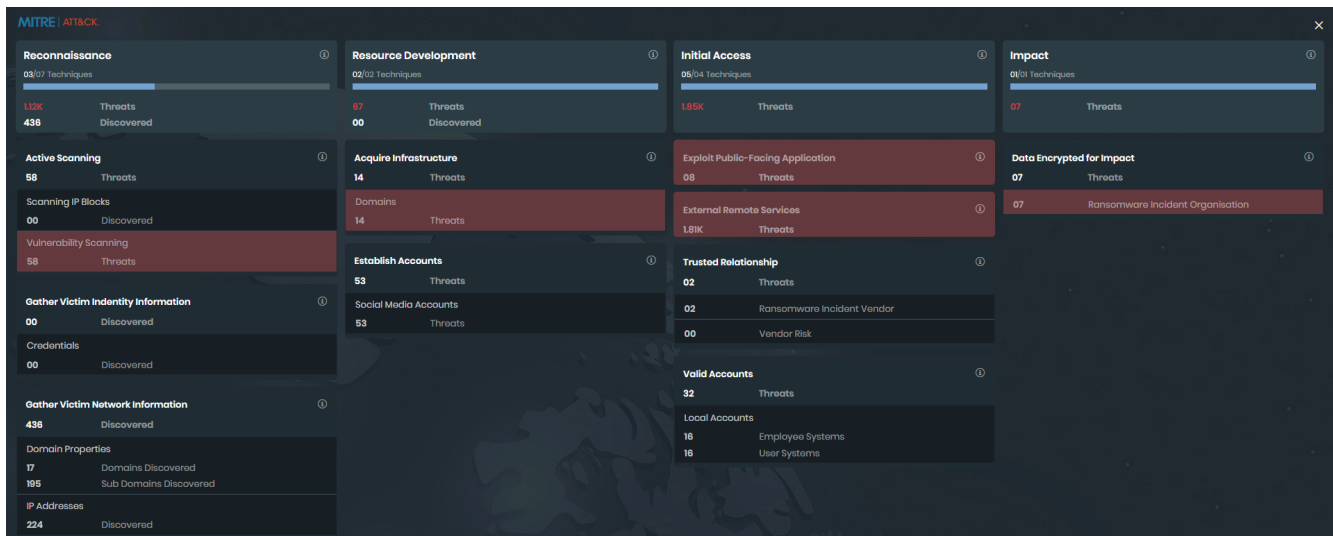
User	Activity	Category
Smith	User logged out	GENERAL - Auth
John	acmedemo.org-77a081c8-d24e-468d-9e1c-18e7e40680d9 is created	ACI - Settings

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.

Dashboard > Active Scanning

Active Scanning

ID : [TI595](#)

Adversaries may execute active reconnaissance scans to gather information that can be used during targeting. Active scans are those where the adversary probes victim infrastructure via network traffic, as opposed to other forms of reconnaissance that do not involve direct interaction.

Adversaries may perform different forms of active scanning depending on what information they seek to gather. These scans can also be performed in various ways, including using native features of network protocols such as ICMP. Information from these scans may reveal opportunities for other forms of reconnaissance (ex: Search Open Websites/Domains or Search Open Technical Databases), establishing operational resources (ex: Develop Capabilities or Obtain Capabilities), and/or initial access (ex: External Remote Services or Exploit Public-Facing Application).

Sub Techniques (2)

ID	Name
TI595.001	Scanning IP Blocks
TI595.002	Vulnerability Scanning

Scanning IP Blocks

ID : [TI595.001](#)

Information Gathered From : EASM > Asset Discovery > IP Block

Adversaries may scan victim IP blocks to gather information that can be used during targeting. Public IP addresses may be allocated to organizations by block, or a range of sequential addresses.

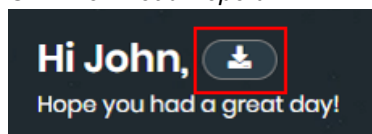
Adversaries may scan IP blocks in order to Gather Victim Network Information, such as which IP addresses are actively in use as well as more detailed information about hosts assigned these

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 212](#).

Attack Surface Management

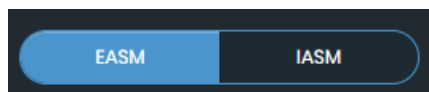
Attack Surface Management (ASM) offers a complete view of potential risks across your external and internal digital environments. It combines discovery, vulnerability assessment, and threat intelligence to help you proactively manage and reduce your attack surface. ASM includes the following modules.

- *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 68 .
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 101 .
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 104 .

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 50](#).
- View a summary of potential security issues related to your organization. See [Viewing security issues summary on page 51](#).
- 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 52](#).
- Download the dashboard content to your hard drive. See [Downloading the EASM dashboard details on page 53](#).

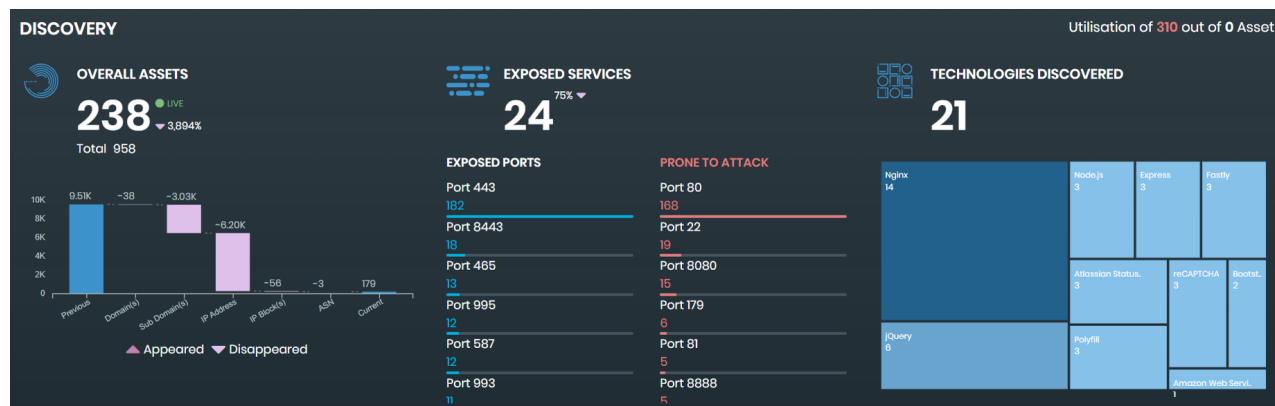
Viewing discovered assets summary

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:

Overall Assets

Displays the number of following entities discovered by FortiRecon:

- *Previous*: results of the previous FortiRecon scan.
- *Domain*: number of domains found by the latest scan.
- *Sub-domain*: number of sub-domains found by the latest scan.
- *IP address*: number of IP addresses found by the latest scan.
- *IP block*: number of IP blocks found by the latest scan.
- *ASN (Autonomous System Number)*: number of ASNs found by the latest scan.
- *Org name*: number of organizations found by the latest scan.
- *Current*: results of the current scan

Exposed Services

Displays all the exposed services discovered by FortiRecon, including exposed ports.



FortiRecon performs port scanning by examining over 1200 well known TCP ports.

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 [EASM Asset Discovery on page 59](#).

Viewing security issues summary

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

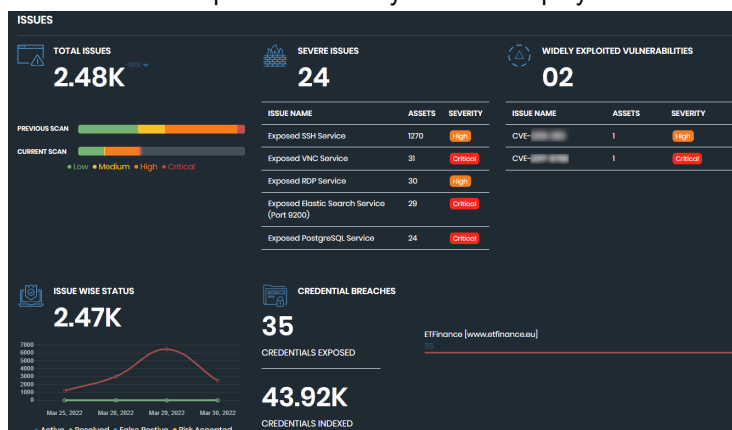
- Total Issues
- Severe Issues
- Widely Exploited Vulnerabilities
- Issue Wise Status
- Credential Breaches



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.

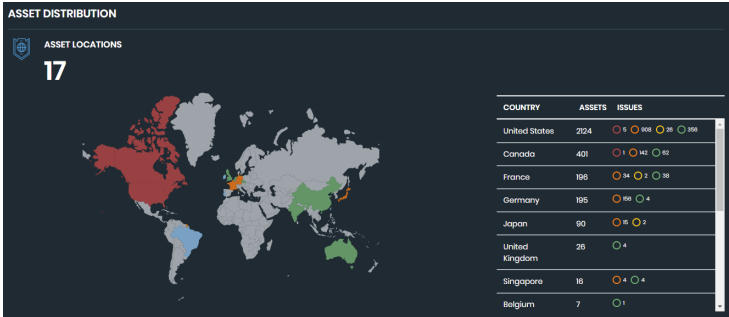
3. Click an issue or vulnerability to display more details on the *Security Issues* page. See [EASM Security Issues on page 53](#).

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	Displays the number of potential security issues and indicates the severity rating of the issues by color: - Red indicates critical. - Orange indicates high. - Yellow indicates medium. - Green indicates low. The colors on the map align with the severity level of the issues.

3. Click a country or issue in the table to display more details on the *Security Issues* page. See [EASM Security Issues on page 53](#).

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 212](#).

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 54](#).
- Apply filters to the list of security issues to hone in on specific issues. See [Filtering security issues on page 55](#).
- 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 57](#).
- Add a comment to explain status changes made to security issues. See [Adding a comment to a security issue on page 58](#).
- Export security issues to an Excel file. See [Exporting security issues](#).

Viewing security issues

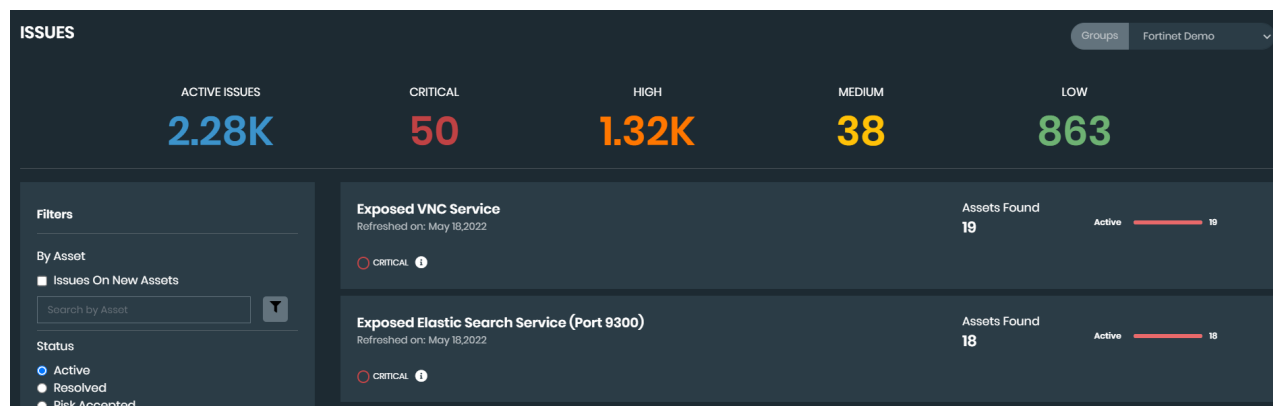
The *Attack Surface Management > Security Issues* page displays the number of active security issues and how many of the active security issues are rated critical, high, medium, and low. Color indicates the severity of a security issue:

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.

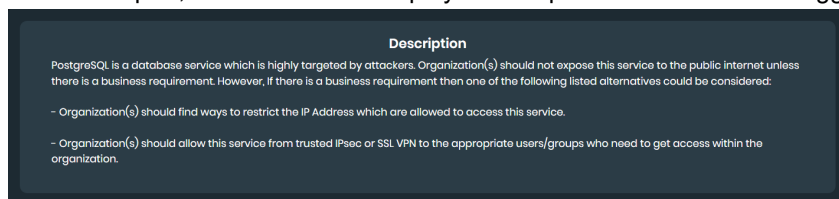
To view security issues:

1. Go to *Attack Surface Management > Security Issues*. Choose *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.

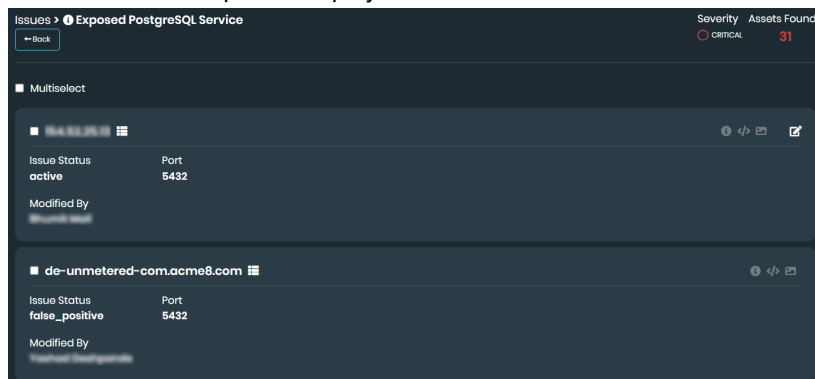


2. In the *Issues* section, click the number under *Critical*, *High*, *Medium*, or *Low*. The corresponding filter is selected and only those reports are displayed.

- 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 57 .

- 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, and click *Search*:

Filter	Options
Status	Select one of the following statuses: • Active • Resolved • Risk accepted • False positive
Severity	Select one or more of the following severity statuses: • Critical • High • Medium • Low
Category	Select one or more of the categories. The list of categories changes based on the displayed security issues.
Country	Select one or more countries.

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, and click *Search*.
The list of filtered security issues is displayed.
3. Click an issue title to display its details.

In the following example, the *Exposed Mongo DB Service* security issue is displayed:

The screenshot displays the FortiRecon Security Issues interface. At the top, there are five tabs: ACTIVE ISSUES (2.28K), CRITICAL (50), HIGH (1.32K), MEDIUM (38), and LOW (863). Below the tabs, there is a sidebar with filters and a main content area showing the details of a specific issue.

Filters:

- By Asset:** Issues On New Assets (Search by Asset)
- Status:** Active (selected), Resolved, Risk Accepted, False Positive
- Severity:** Critical (checked), High (checked), Medium (checked), Low (checked)

Main Content Area:

Issues > 1 Exposed Mongo DB Service

Severity: CRITICAL Assets Found: 01

Created On: May 18, 2022

Port: 27017

Status: Active

Action: [Edit]

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*, 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*.

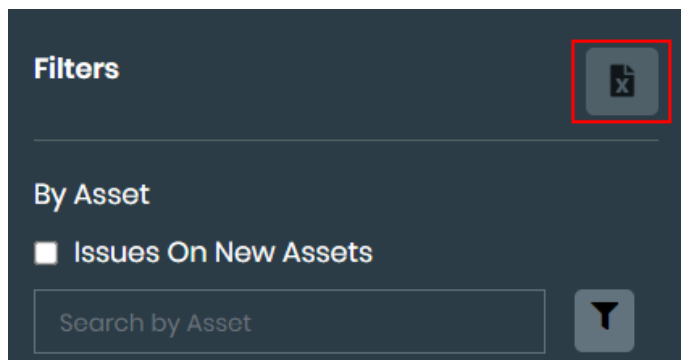
Exporting security issues

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 59](#).
- Mark discovered assets as false positives to remove them from the next scheduled FortiRecon scan. See [Marking assets as false positives on page 61](#).
- Manually add assets to FortiRecon to include them in the next scheduled scan. See [Adding assets manually on page 62](#).
- Manually remove assets from the next scheduled FortiRecon scan. See [Removing assets manually on page 63](#).
- Assign tags to assets for focused filtering. See [Assigning tags on page 63](#).



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 68](#).

- Perform a FortiDAST vulnerability scan on assets. See [Performing a FortiDAST scan on page 65](#).
- View DNS health report for your domains. See [DNS Health Report on page 66](#).
- Export a list of assets to an Excel file. See [Exporting assets](#).

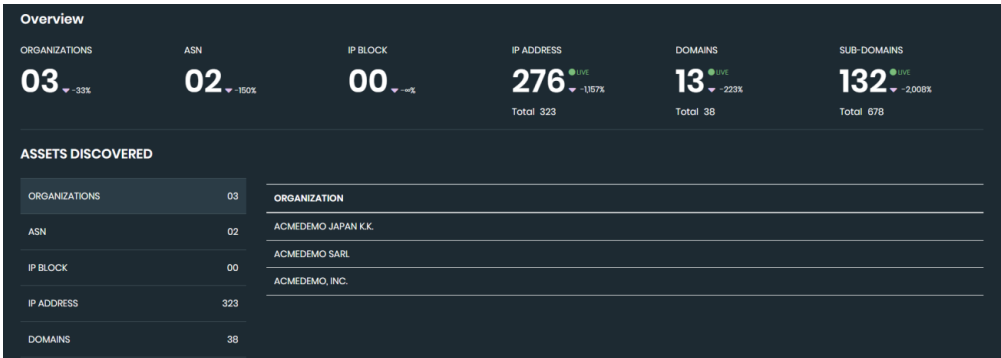
Viewing asset details

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.

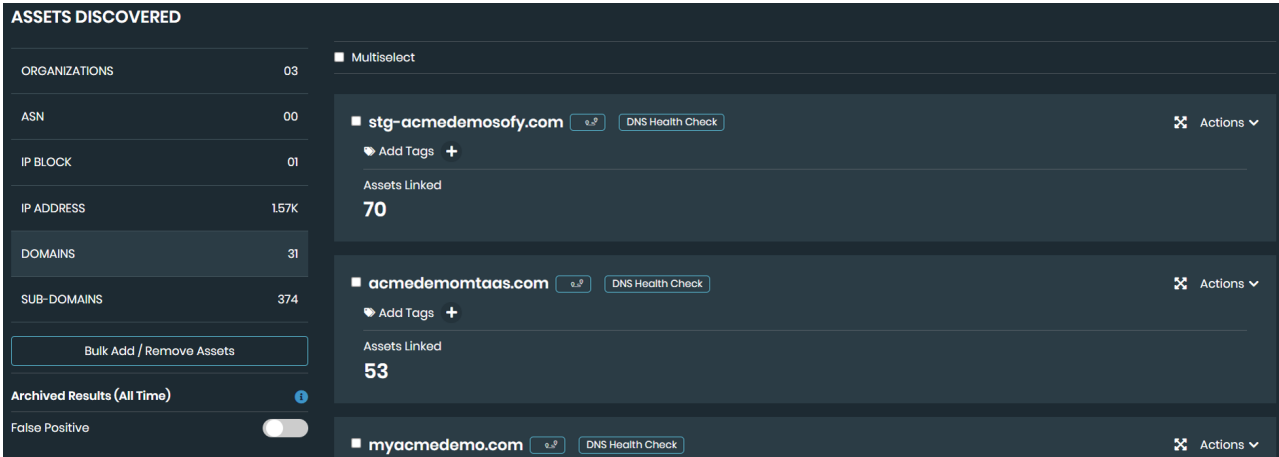


The following information is available:

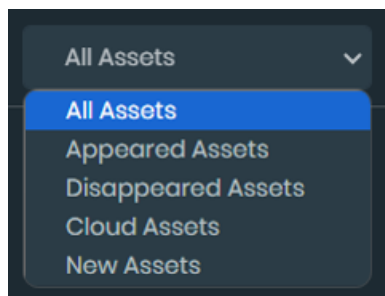
Organizations	The number of organizations that have been detected as belonging to you.
ASN	The number of autonomous system numbers (ASNs) that are linked to the detected organizations.
IP blocks	The number of IP blocks associated with the ASNs.
IP address	The number of IP addresses that are linked to 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:



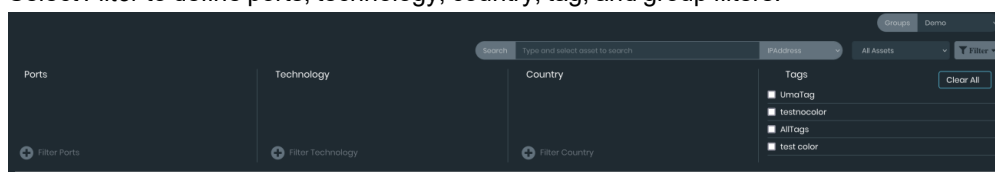
- a. Select *Appeared Assets* to show assets that appeared in the latest scan.
- b. Select *Disappeared Assets* to show assets that disappeared in the latest scan.
- c. Select *Cloud Assets* to show cloud-based assets.



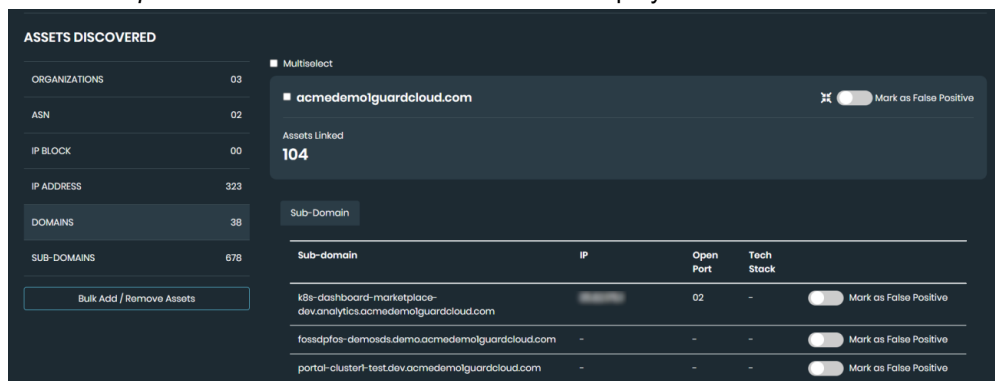
Cloud assets can only be filtered if the AWS cloud environment has been integrated. See [Integrations on page 104](#).

- 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 61](#).

Marking assets as false positives

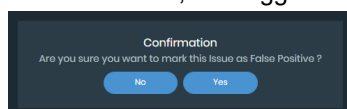
You can manually mark any of the following discovered assets as false positives to remove them from the next scheduled FortiRecon scan:

- 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.

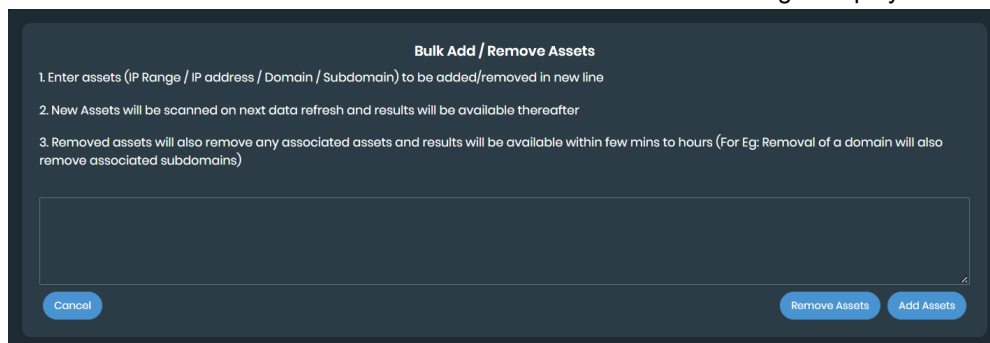
Adding assets manually

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.

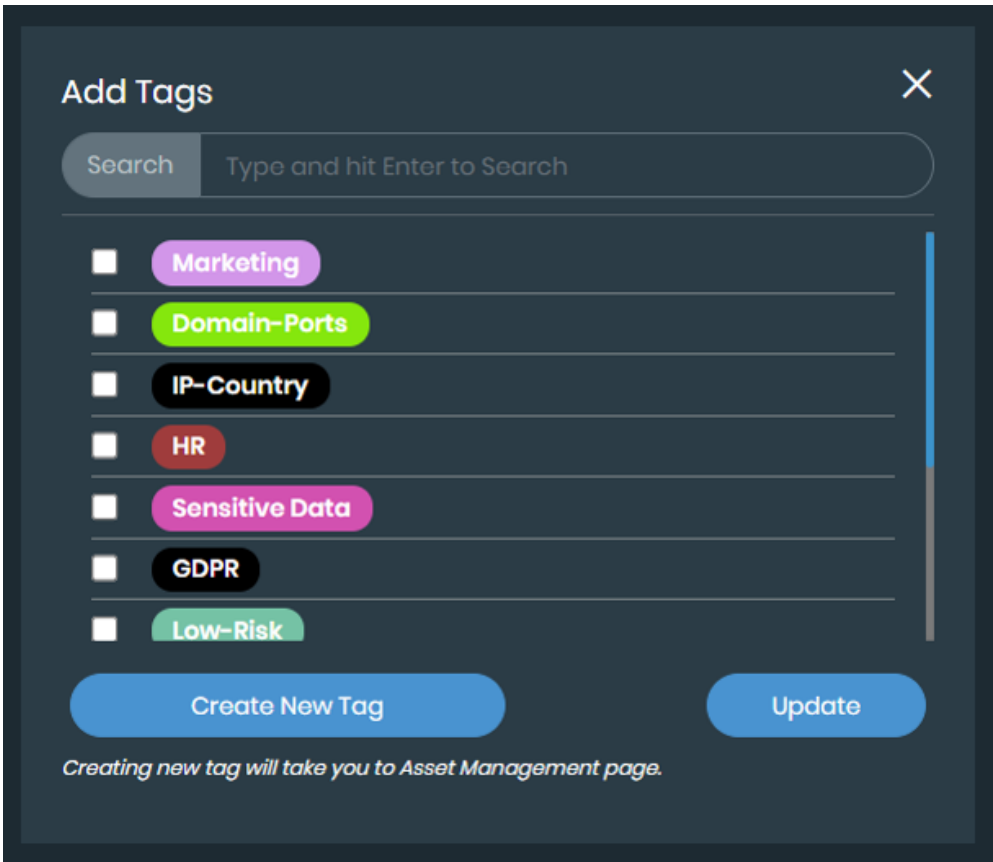
3. Enter the assets, and click *Remove Assets*.

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 68](#).

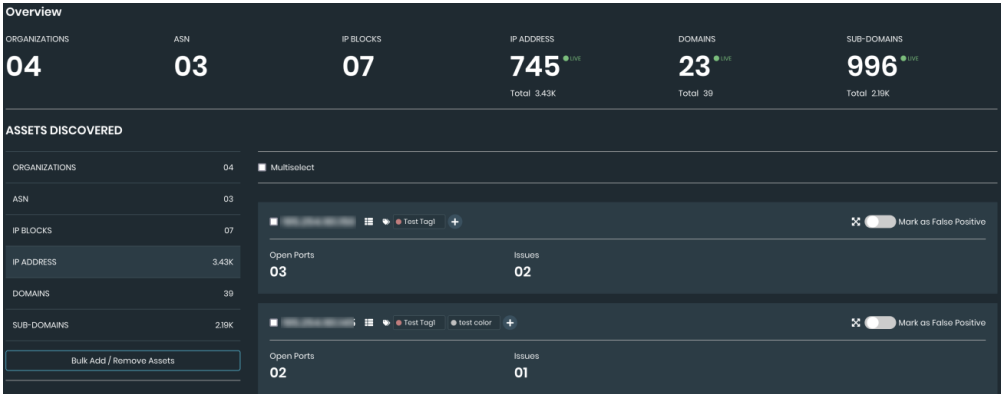
To assign a tag to an asset:

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 68](#).

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



Performing a FortiDAST scan

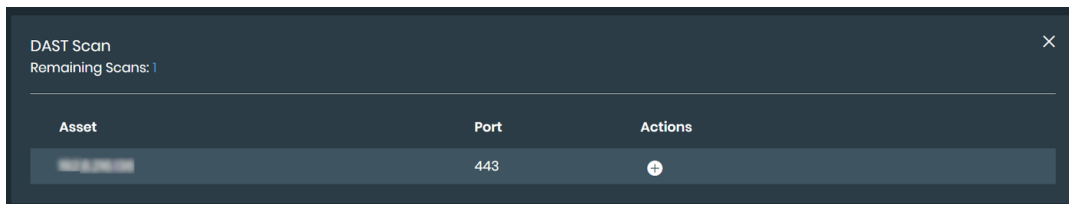
You can use FortiDAST to perform a vulnerability scan on your assets. By leveraging a FortiDAST integration with FortiRecon, you can identify vulnerabilities and security gaps within your assets. See the [FortiDAST User Guide](#) for more information on how the integration and scanning works.

To scan an asset with FortiDAST:

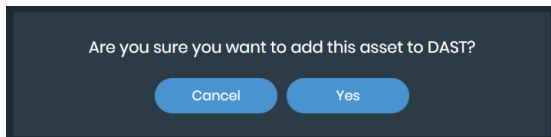
1. Add a FortiDAST integration to FortiRecon. See [Adding integrations on page 104](#).
2. Go to *Attack Surface Management > Asset Discovery*.
3. Navigate to the asset you want to scan.
4. Select *Actions > DAST Scan*.



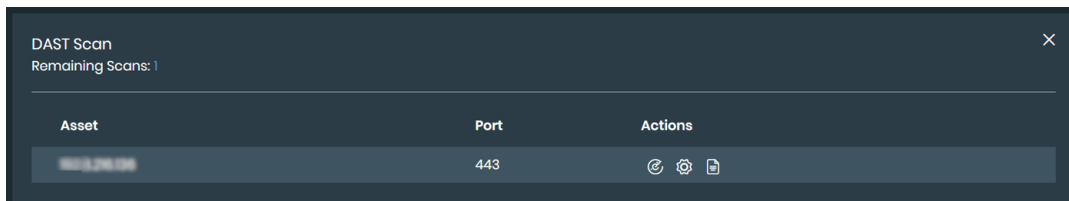
The *DAST Scan* dialog opens with number of *Remaining Scans* displayed.



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.

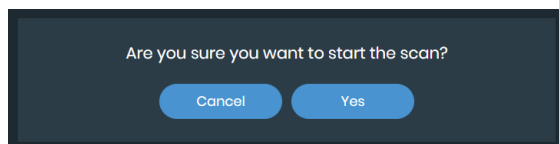


7. Click *Config Scan*. You will be redirected to FortiDAST.

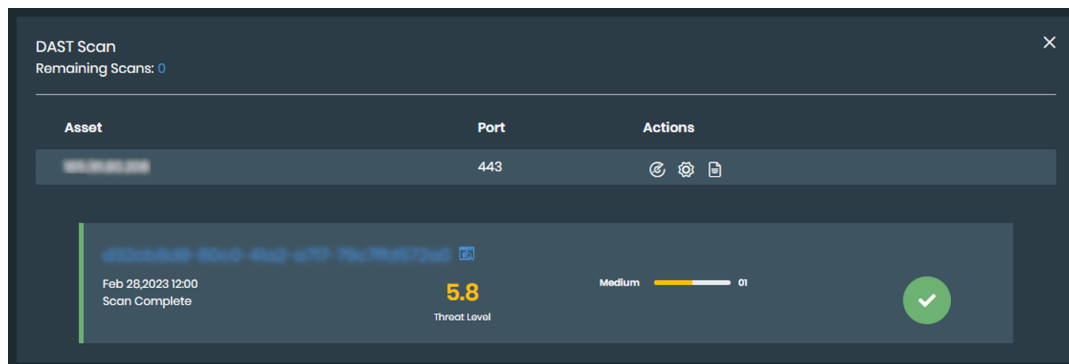


Only master or sub users will be redirected to FortiDAST to complete the configuration. Other users will be prompted with a dialog on how to proceed.

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.



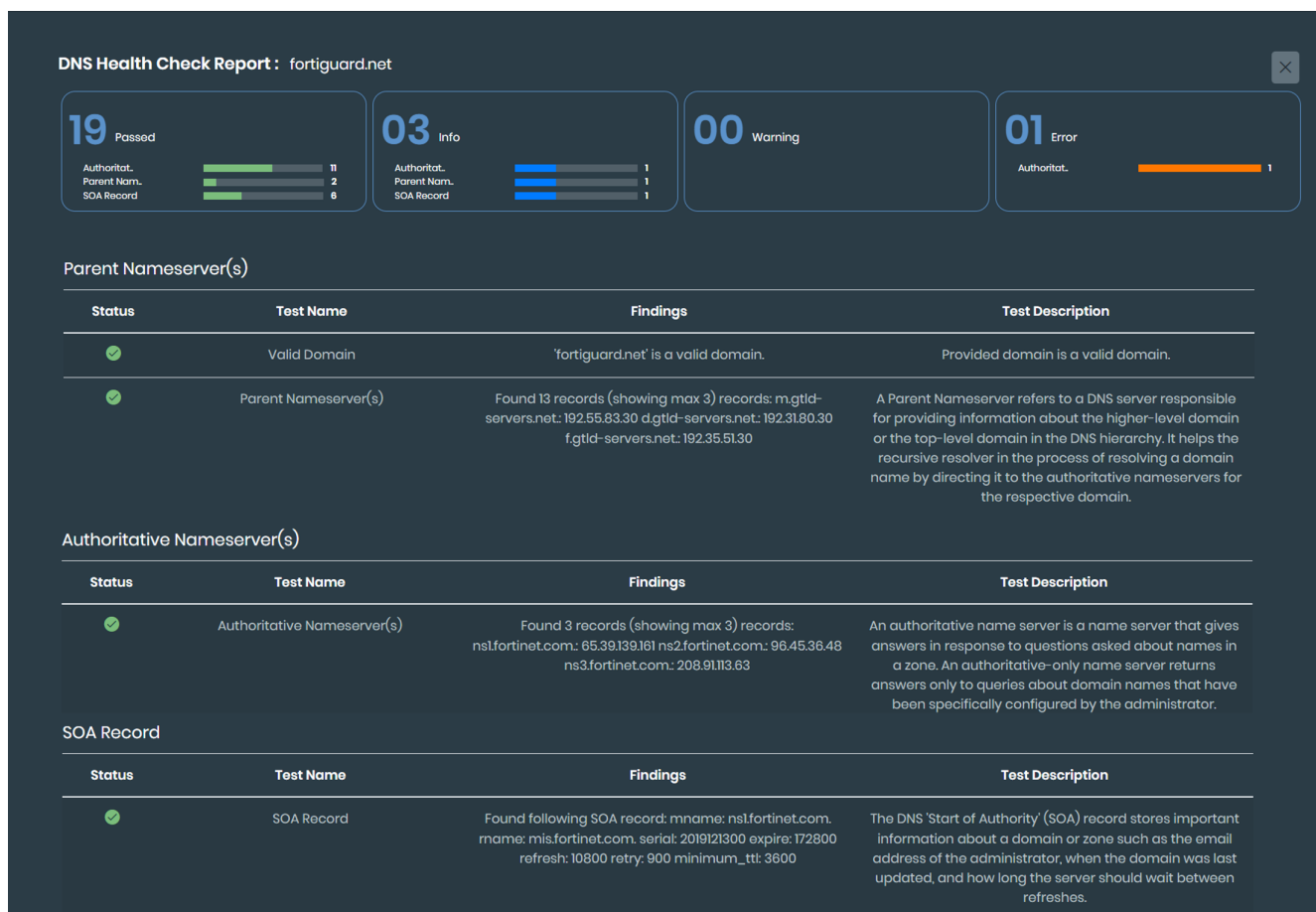
You can scan the same asset again by selecting *ReScan*.

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*.



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 77](#).



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 59](#). 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 68](#).
- Assign individual and bulk assets to an asset tag. See [Adding assets to a tag on page 69](#).
- Manage, edit, and delete asset tags. See [Managing tags on page 70](#).
- 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

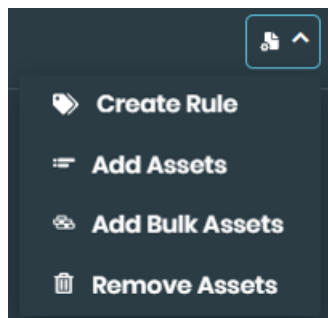
You can add individual or bulk assets to a tag from the *Tag Management > Tags* tab. You can also add assets to tags by creating tagging rules.



- Assets must be included in *Attack Surface Management > Asset Discovery* before they can be tagged. See [Adding assets manually on page 62](#).
- Tags can also be assigned to assets in *Attack Surface Management > Asset Discovery*. See [Assigning tags on page 63](#).

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*.

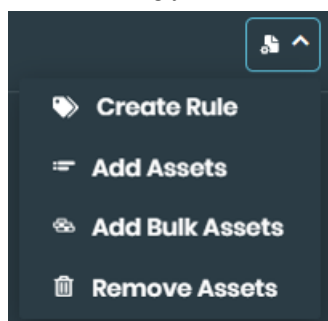


For multiple tags, select the tags you want to create tagging rule for and click *+Add > Create Rules*.

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.

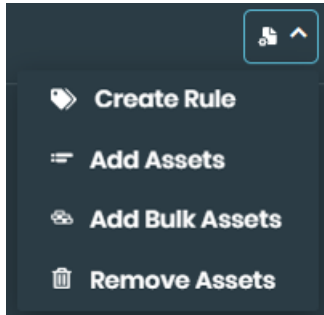


5. Select *Add Assets*.
6. Select the assets to add from the *Validated Assets list*.

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.



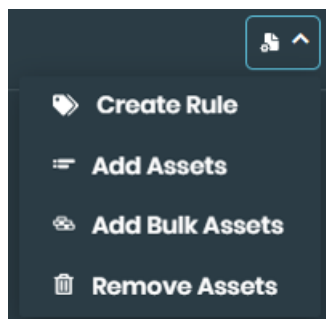
5. Select *Add Bulk Assets*.
6. Enter the asset information in the left field.
7. Select *Propagate the tag to asset* to apply tags to the asset associations. Select the *i* icon for more information.
8. Click *Validate*. Once validated, assets are displayed in the right field. Any assets that failed validation are listed.
9. Click *Save*.

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.



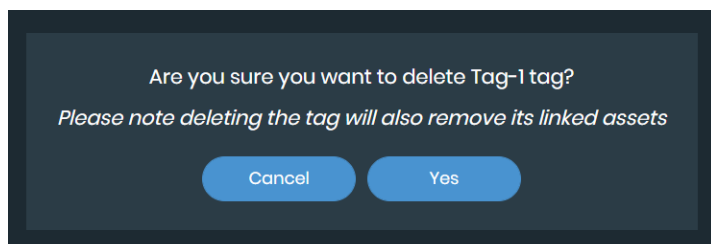
5. Select *Remove Assets*.
6. Select the assets you want to remove or click *Select All*.
7. Click *Remove Selected*.

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 Sub 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	• Port (Equals) • Asset Name (Starts with, Ends with, Wildcard) • Technologies (Equals) • Services (Equals) • Parent Asset (Equals)
Sub-domain	• Port (Equals) • Asset Name (Starts with, Ends with, Wildcard) • Technologies (Equals) • Services (Equals) • Parent Asset (Equals)
IP Address	• 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	• Asset Name (Starts with, Ends with, Wildcard) • Parent Asset (Equals)
ASN	• 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 74](#).
- Assign individual and bulk assets to an asset group. See [Adding assets to a group on page 75](#).
- Manage, edit, and delete asset groups. See [Managing groups on page 76](#).
- Filter *Attack Surface Management* pages by group. See [Filtering by group on page 77](#).

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 75](#).

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 62](#).

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 *Validate*. Once validated, assets are displayed in the right field. Any assets that failed validation are listed.
9. Click *Save*.

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:

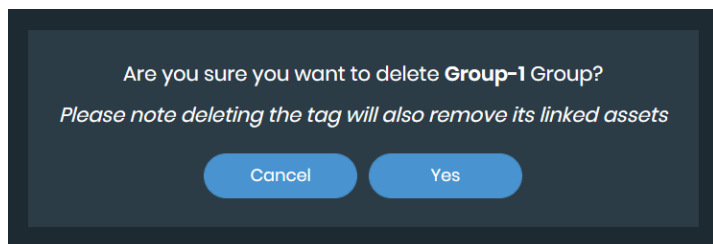
1. Go to *Attack Surface Management > Asset Management*.
2. Select *EASM* toggle.
3. Select the *Group Management* tab.
4. Locate the group you want to remove assets from and click *Manage Assets* icon. A dropdown menu is displayed.
5. Select *Remove Assets*.
6. Select the assets you want to remove or 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 77](#).
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*.

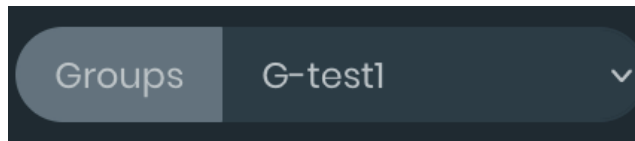
Filtering by group

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.

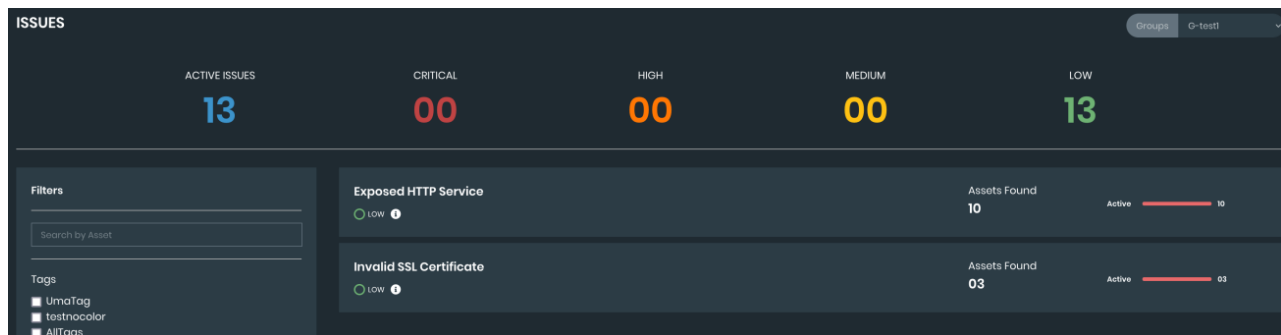
The following example demonstrates filtering by group in the *Attack Surface Management > Security Issues* page.

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	All assets that have been added to the group	Assets that have not been added to the group
A single group with tags assigned to the assets	Assets that have been added to the group that also have the tags assigned	- 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	All assets that have been added to any of the assigned groups	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	Assets that have been added to any of the assigned groups that also have the tags assigned	- 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.

Name	Description	Linked Assets	Created By	Status	Date	Actions
group_regression_edited	Editing Group for Regression Testing	102	Fortinet Auto Qa	All	Mar 02, 2023	Manage Assets
testrole	-	0	testrole	All	Feb 07, 2023	Manage Assets
test-gc	test role	0	test-gc	All	Dec 27, 2022	Manage Assets
test-del	testing delete	0	test-del	All	Dec 27, 2022	Manage Assets
test-s	testing froup	0	test-s	All	Dec 18, 2022	Manage Assets

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

Assigned User List

- ☒ Select All
- ☒ [User Name]
- ☒ [User Name]
- ☒ [User Name]
- ☒ [User Name]
- ☒ [User Name]

Submit

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.

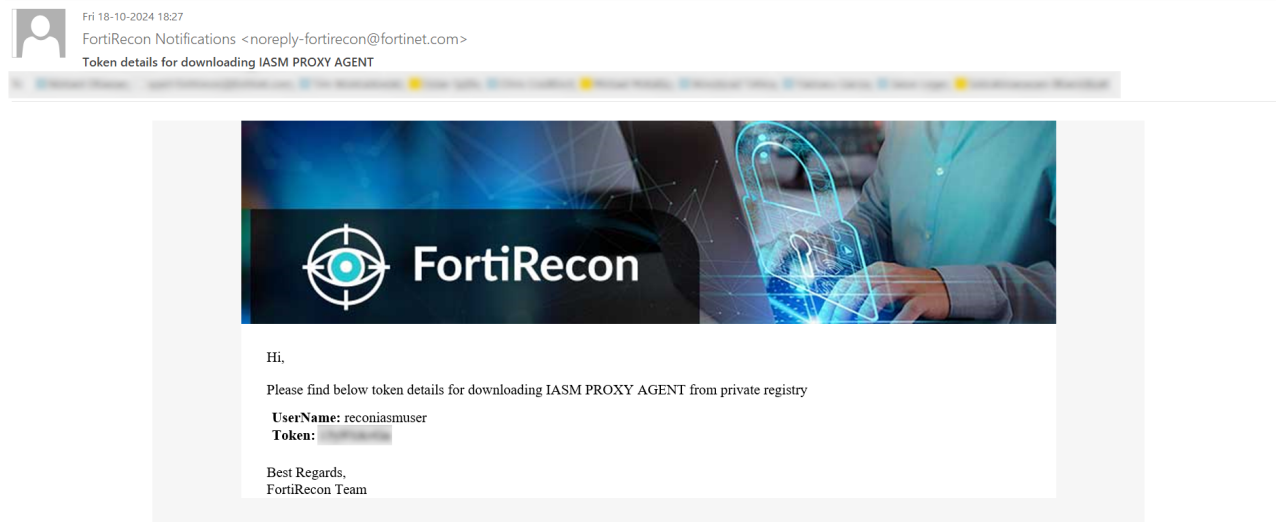
1. Install *Ubuntu 22.04* on a physical server or virtual machine.
2. Install the latest version of Docker engine and the Docker compose.

```
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](#).

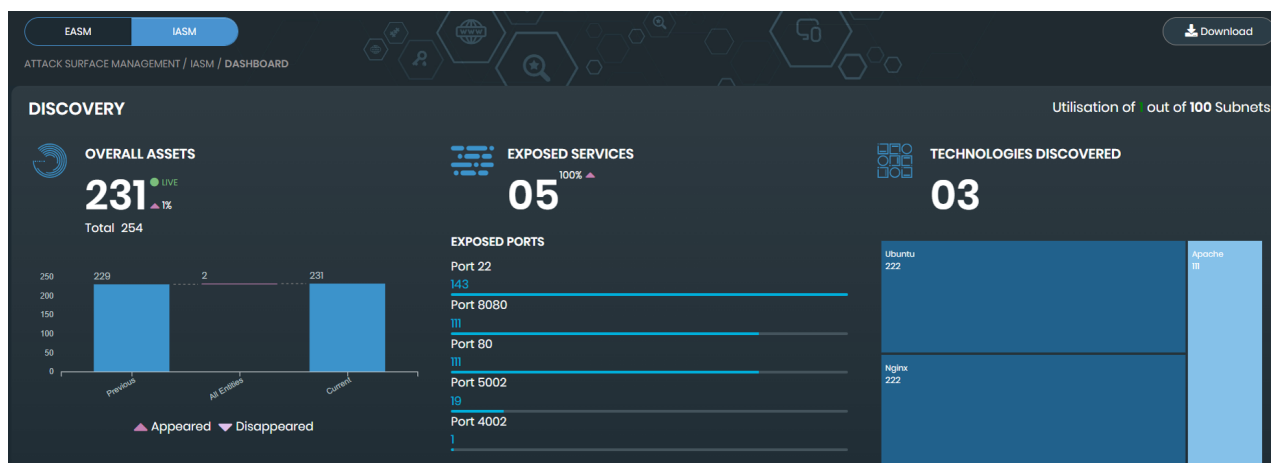
Viewing discovered assets summary

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:

- *Previous*: results of the previous FortiRecon scan.
- *All Entities*: number of organizations found by the latest scan.
- *Current*: results of the current scan

Exposed Services

Displays all the exposed services discovered by FortiRecon, including exposed ports.



FortiRecon currently scans TCP ports only.

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](#).

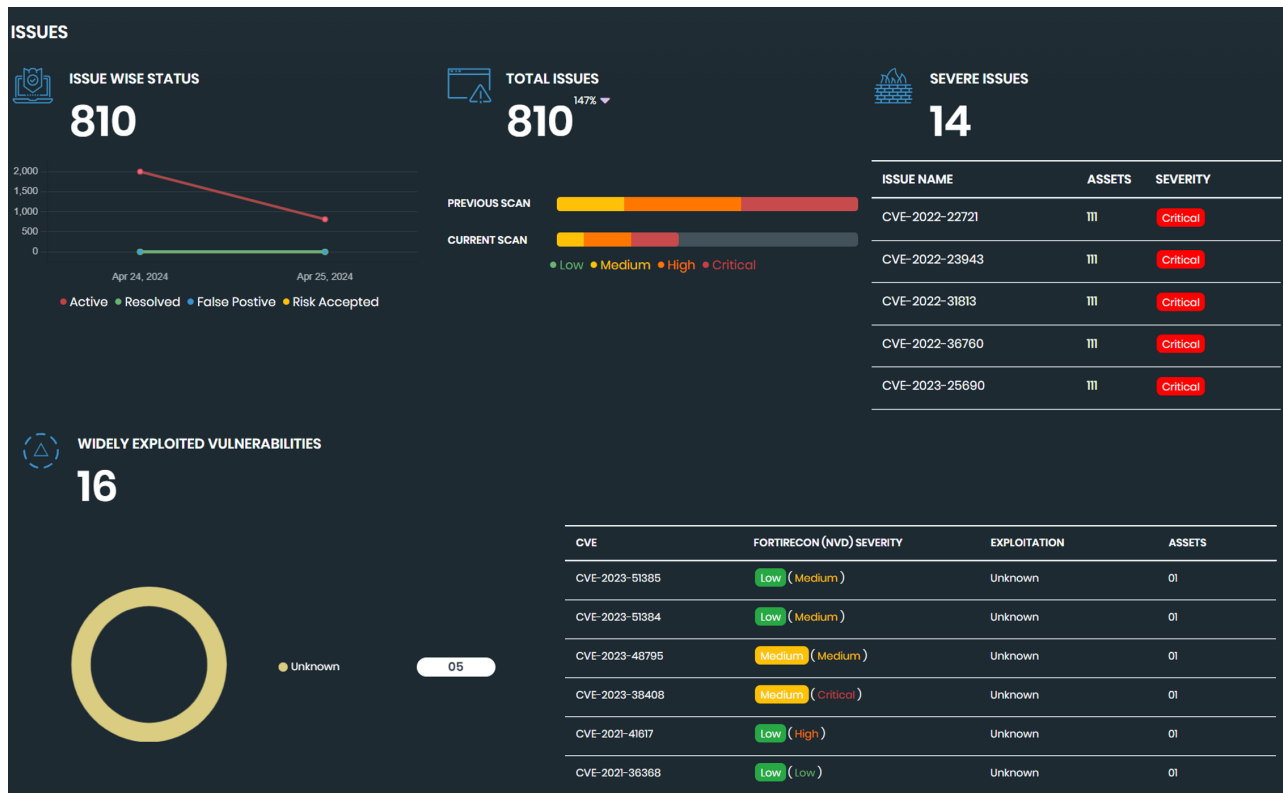
Viewing security issues summary

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.

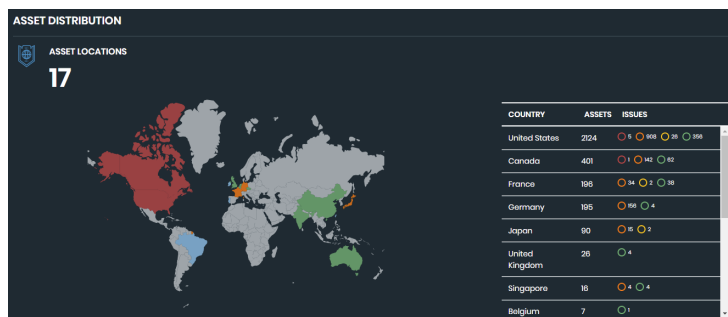
3. Click an issue or vulnerability to display more details on the *Security Issues* page. See [IASM Security Issues](#).

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:

- 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	Displays the number of potential security issues and indicates the severity rating of the issues by color: • Red indicates critical. • Orange indicates high. • Yellow indicates medium. • Green indicates low. The colors on the map align with the severity level of the issues.

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 212](#).

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

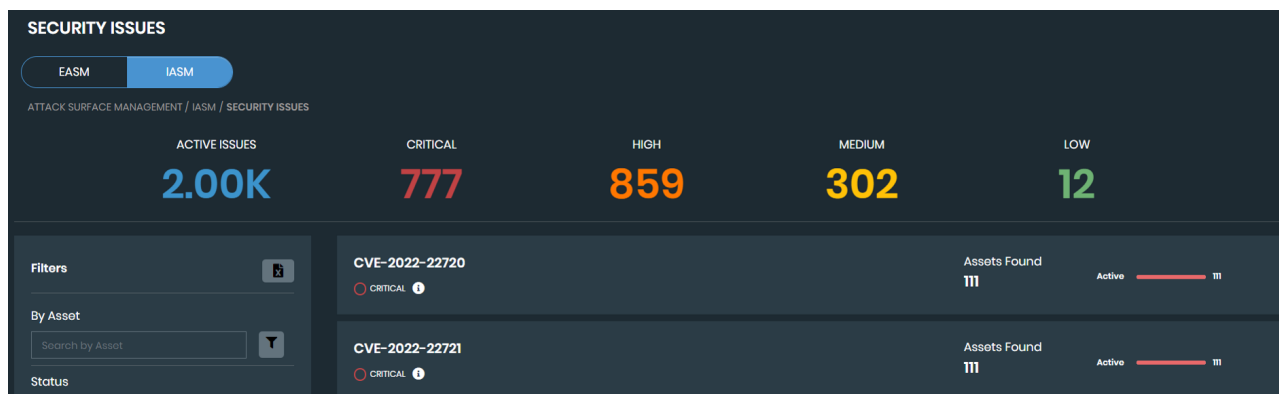
The *Attack Surface Management > Security Issues* page displays the number of active security issues and how many of the active security issues are rated critical, high, medium, and low. Color indicates the severity of a security issue:

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.

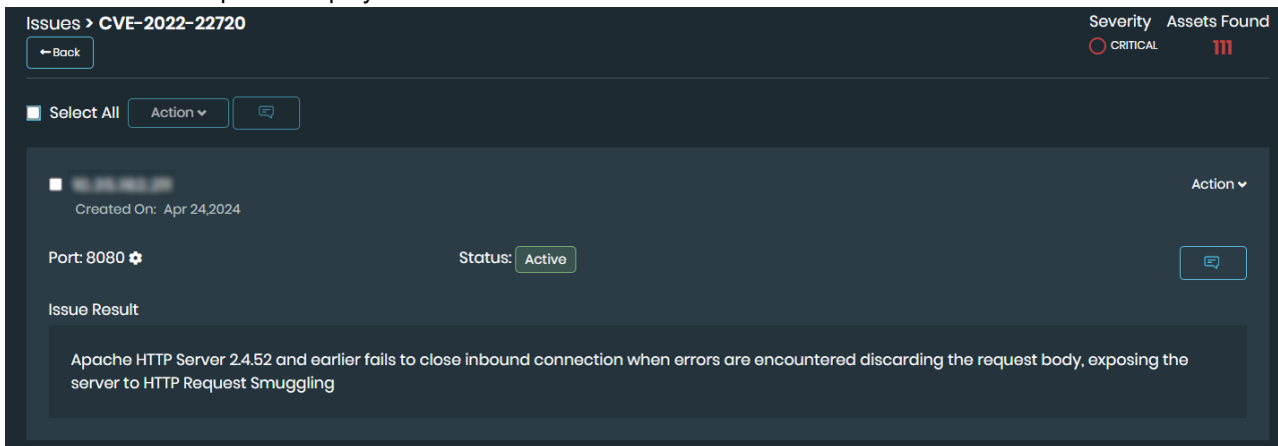


2. In the *Issues* section, click the number under *Critical*, *High*, *Medium*, or *Low*. The corresponding filter is selected and only those reports are displayed.
3. For each report, click the *i* icon to display a description of the issue and suggested remediation steps.

Description

Apache HTTP Server 2.4.52 and earlier fails to close inbound connection when errors are encountered discarding the request body, exposing the server to HTTP Request Smuggling

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



5. Click gear icon next to Port to view *Service Discovery* information.
6. 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, and click *Search*:

Filter	Options
Status	Select one of the following statuses: • <i>Active</i> • <i>Resolved</i> • <i>Risk accepted</i> • <i>False positive</i>
Severity	Select one or more of the following severity statuses: • <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. • <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.

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:

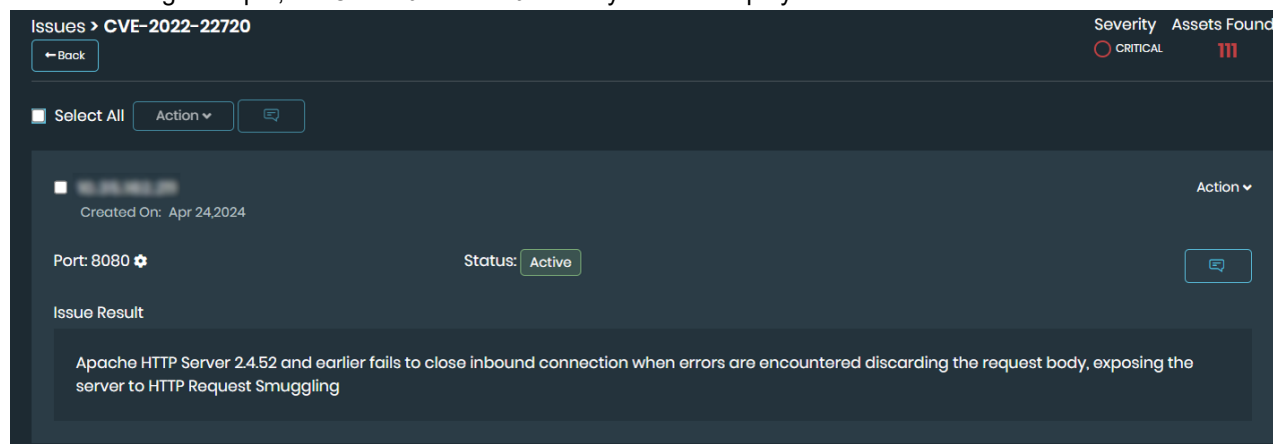
Mark as Active	Available only after you change the status of a security issue from active to another status. Select to move an issue back to the active status.
Mark as Resolved	Select to indicate actions taken at your organization have resolved the security issue.
Risk Accepted	Select to indicate actions 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*. The discovered assets are displayed.
2. If necessary, select one or more filters, and click *Search*.
The list of filtered security issues is displayed.

- Click an issue title to display its details.

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



- 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

- 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:

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

Exporting security issues

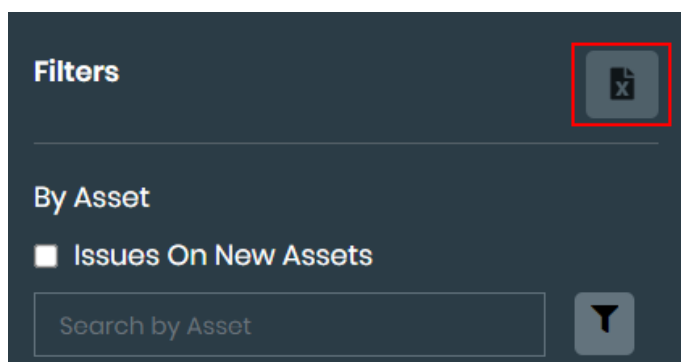
You can export a list of security issues into an Excel file. The spreadsheet will include the information on:

- 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:

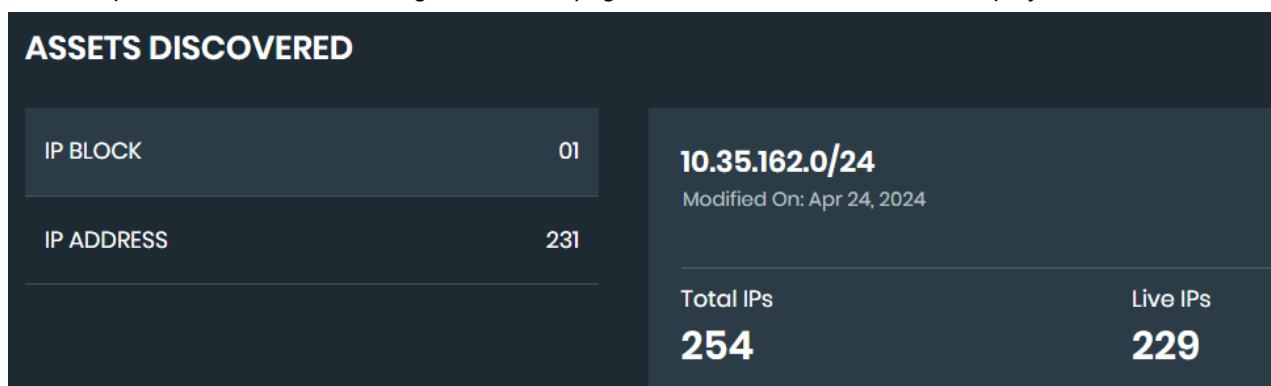
1. Go to *Attack Surface Management > Asset Discovery*.
2. Choose *IASM* using toggle. The number of discovered assets display in an *Overview* section across the top and in an *Assets Discovered* list on the left side of the page.



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.

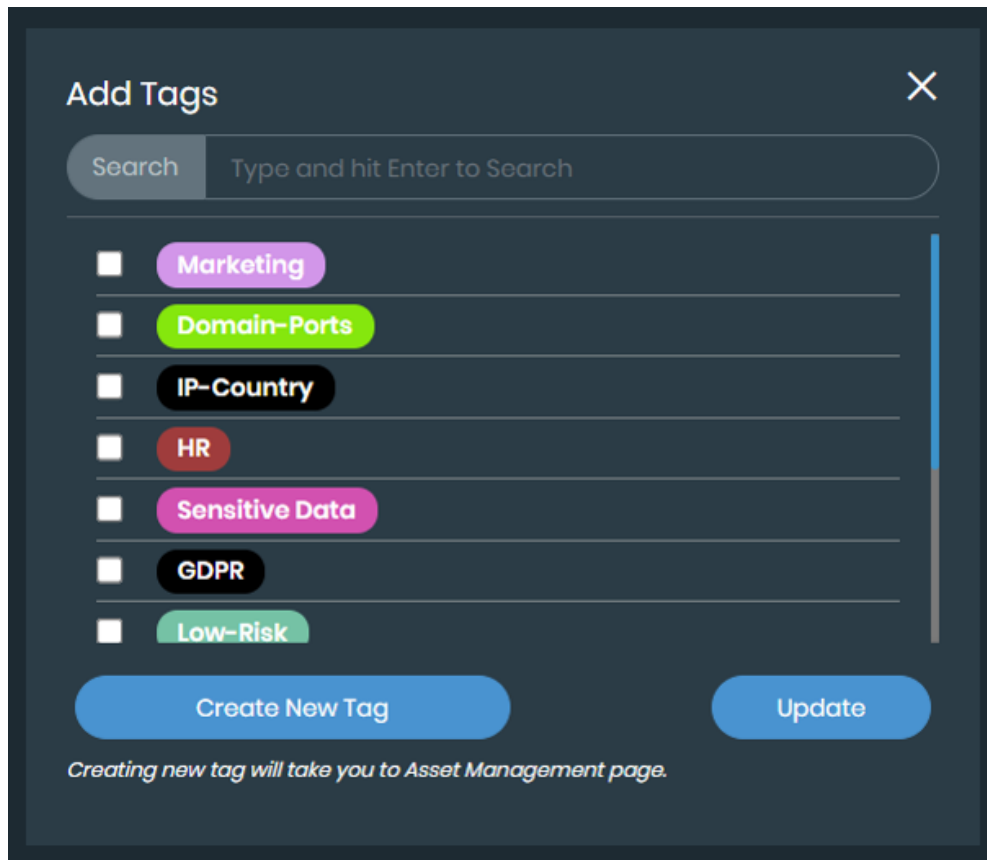


Assigning tags

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 68](#).
- 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

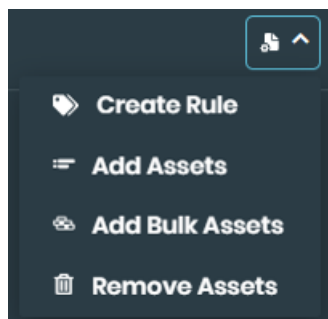
You can add individual or bulk assets to a tag from the *Tag Management* tab. You can also add assets to tags by creating tagging rules.



- 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:

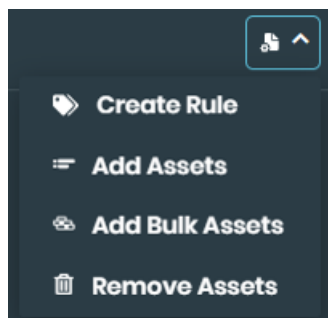
1. Go to *Attack Surface Management > Asset Management*.
2. Select *IASM* toggle.
3. Select the *Tag Management* tab.
4. Locate the tag you want to add assets to and click *Settings* icon. A dropdown menu is displayed.



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.



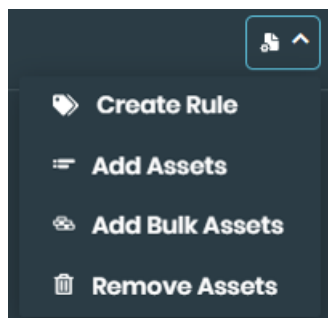
5. Select *Add Bulk Assets*.
6. Enter the asset information in the left field.
7. Select *Propagate the tag to asset* to apply tags to the asset associations. Select the *i* icon for more information.
8. Click *Validate*. Once validated, assets are displayed in the right field. Any assets that failed validation are listed.
9. Click *Save*.

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.



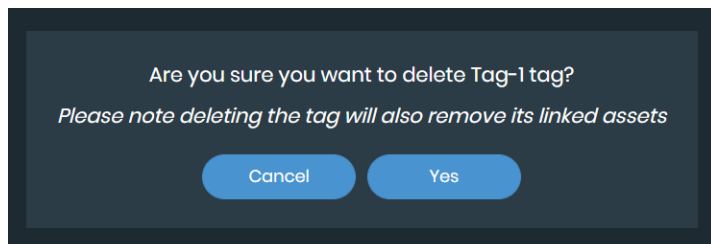
5. Select *Remove Assets*.
6. Select the assets you want to remove or click *Select All*.
7. Click *Remove Selected*.

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 *Validate*. Once validated, assets are displayed in the right field. Any assets that failed validation are listed.
9. Click *Save*.

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:

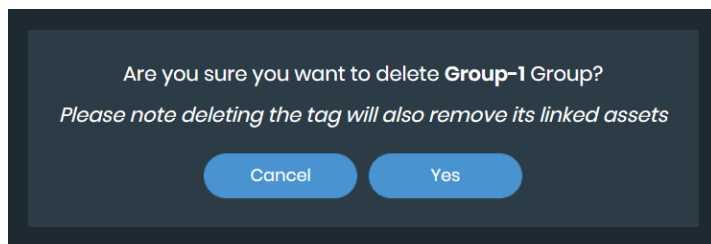
1. Go to *Attack Surface Management > Asset Management*.
2. Select *IASM* toggle.
3. Select the *Group Management* tab.
4. Locate the group you want to remove assets from and click *Manage Assets* icon. A dropdown menu is displayed.
5. Select *Remove Assets*.
6. Select the assets you want to remove or 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	All assets that have been added to the group	Assets that have not been added to the group
A single group with tags assigned to the assets	Assets that have been added to the group that also have the tags assigned	- 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	All assets that have been added to any of the assigned groups	Assets that have not been added to any of the groups
Multiple groups with tags assigned to the assets	Assets that have been added to any of the assigned groups that	Assets that have not been added to any of the groups

User assigned to	Visible assets	Hidden assets
	also have the tags assigned	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	testrole	All	Feb 07, 2023	Manage Assets
test-go	test role	0	test-go	All	Dec 27, 2022	Manage Assets
test-del	testing delete	0	test-del	All	Dec 27, 2022	Manage Assets
test-s	testing froup	0	test-s	All	Dec 16, 2022	Manage Assets

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

Assigned User List

☒ Select All

☒ user1

☒ user2

☒ user3

☒ user4

☒ user5

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](#).

12. Click **Save**.

IASM Configuration
4 Subnets Available

1 Configuration

2 Download

Name test

Description

Configuration Description

Subnet

+ Add

Location	Subnet/IP
India	10.36.239.112/24

Scan Schedule (UTC)

Fortnightly

Monday

02:00

Integration

FortiGate Integrations

Exclude Assets

Subnets Ex: 10.30.230.12 \n 10.30.230.13

To edit an existing configuration:

1. Navigate *Attack Surface Management > Asset Management*.
2. Select *IASM* toggle.
3. Select *IASM Configuration* tab.
4. Click *Actions* icon next to the configuration you want to modify and click *Edit*.
5. 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:

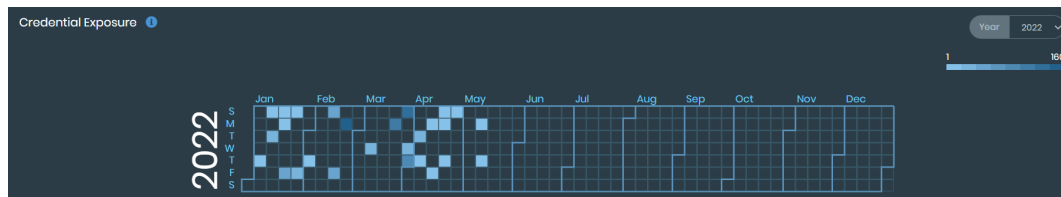
- View leaked credentials by year. See [Viewing leaked credentials by year on page 101](#).
- View breached datasets. See [Viewing breached datasets on page 102](#).
- View leaked credential details. See [Viewing leaked credential details on page 101](#).
- Export a list of leaked accounts. See [Exporting leaked accounts on page 103](#).

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 101](#).

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' listed). The main area displays a table of credentials with the header 'Total Credentials Exposed: 26'. The table has columns for Domain, Email, Breach Name, Added On, and Actions. A 'Mark As Resolved' button is visible over the Actions column for the first row.

Domain	Email	Breach Name	Added On	Actions
demo2.com	user@demo.com	CafePress [www.cafepress.com]	Jan 10, 2024	Action ▲ Mark As Resolved
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:

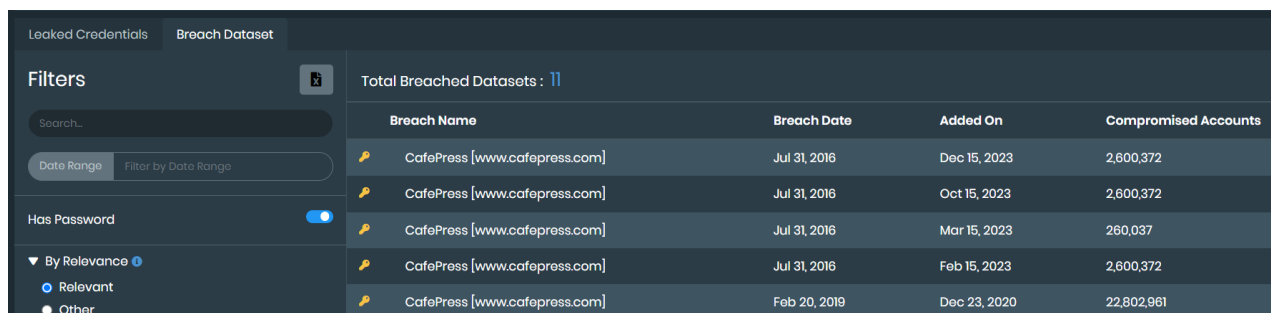
1. Go to *Attack Surface Management > Leaked Credentials*. Select *Breached Dataset* tab. The following columns of information are available:

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' tab 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 (turned on), and a 'By Relevance' dropdown (set to 'Relevant'). The main area displays 'Total Breached Datasets : 11' and a table with the following data:

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

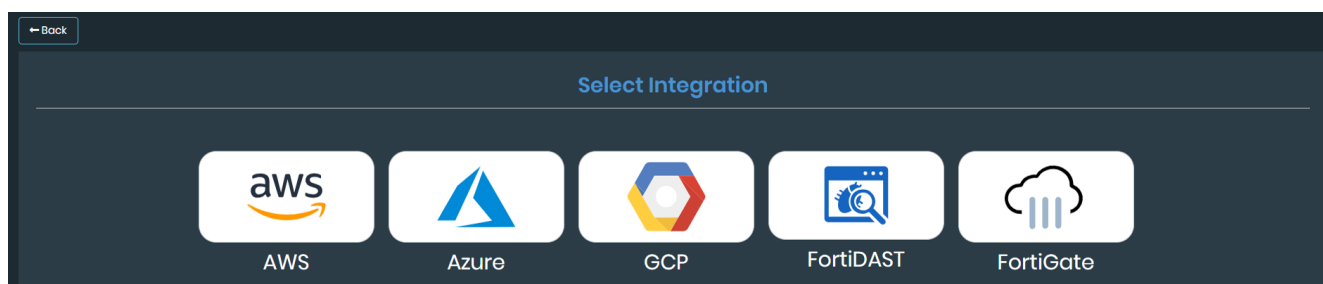
You can export a list of leaked accounts to Microsoft Excel format.

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.

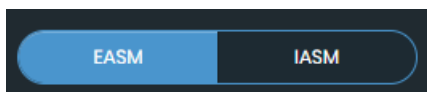


On the *Attack Surface Management > Integrations* page, you can:

- Add new integrations for AWS, Azure, Google Cloud Platform, FortiDAST, and FortiGate. See [Adding integrations on page 104](#).
- Edit and delete existing integrations. See [Editing integrations on page 107](#).



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.
-

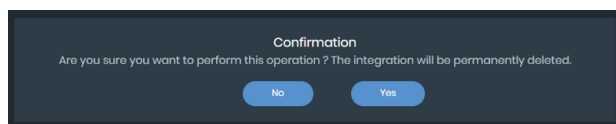


You cannot edit the *External ID* field for an AWS integration. You cannot edit the *Account ID*, *Subscription ID*, or *Tenant ID* for an Azure integration.

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 109 .
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 111 .
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 117 .
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 125 .
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 133 .
Open Bucket Exposure	Displays a list of files exposed in open buckets. See Open Bucket Exposure on page 137 .
Take Down	Displays a list of takedown request tickets and their current status. See Take Down on page 138 .

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:

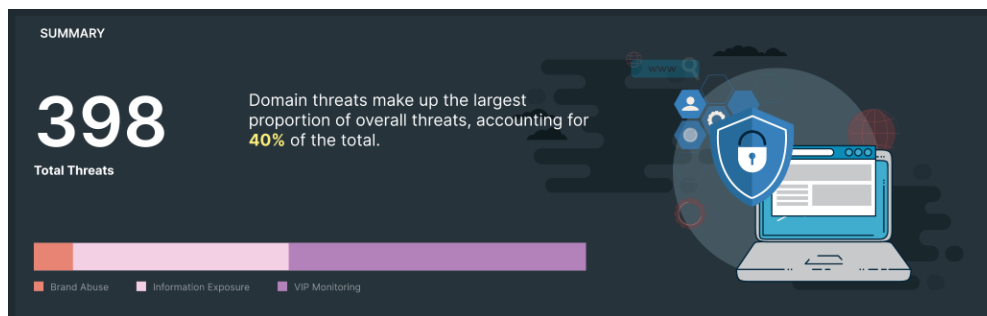
- View a summary of domain threats to your organization. See [Viewing the domain threat summary on page 109](#).
- View a summary of brand abuse, such as rogue apps or social media threats. See [Viewing the brand abuse summary on page 109](#).
- View a summary of information exposure, including code and file exposure. See [Viewing the information exposure summary on page 110](#).
- View trends and important alerts of threats to your brand. See [Viewing the alert summary on page 110](#).
- View total credits used and available for domain takedown. See [Viewing the takedown credit summary on page 111](#).

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.

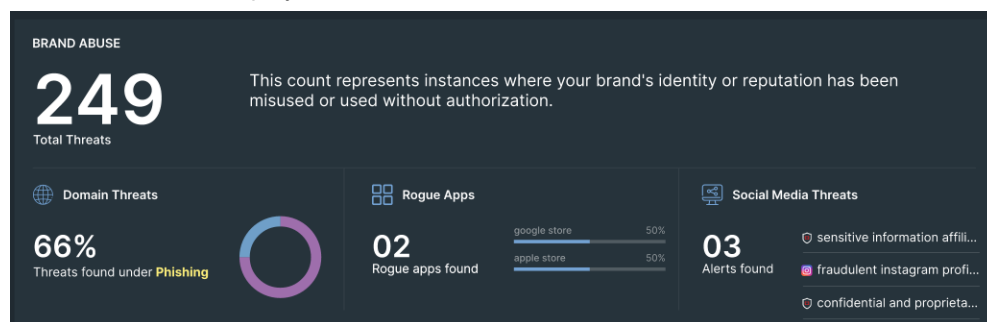
Viewing the brand abuse summary

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.

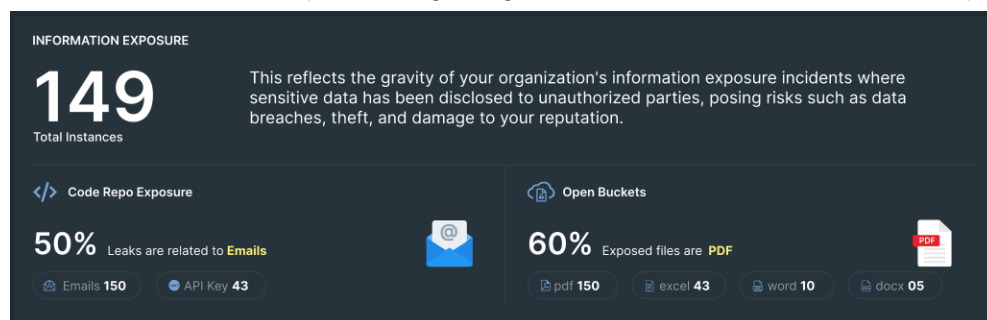


Viewing the information exposure summary

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.

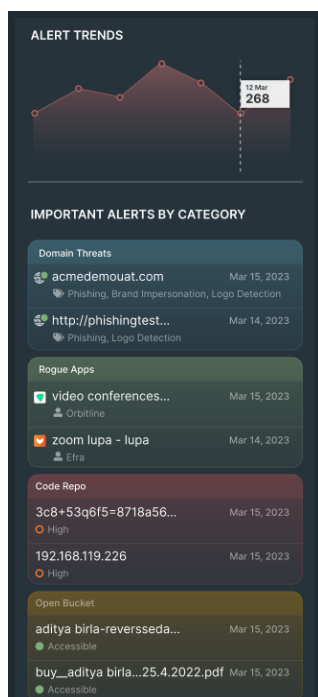


Viewing the alert summary

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.



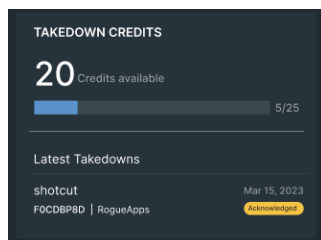
3. Hover over the graph for more information on daily alerts.

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 112](#).
- Take action against impersonating domains, such as requesting domain takedown. See [Managing domain threats on page 113](#).
- Filter the list of domains. See [Filtering domains on page 113](#).
- Create a digital watermark. See [Digital watermark on page 114](#).
- Add a new domain or URL for monitoring or takedown. See [Adding a new domain threat](#).

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.
8. Click *Search*. 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.



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

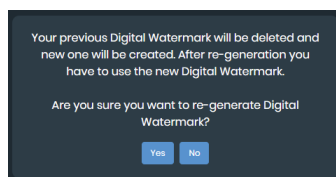
You can edit digital watermarks through the *Brand Protection > Phishing* page.

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.



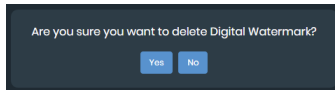
4. Click *Yes*.

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.

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 117](#).
- Take action against impersonating profiles, such as requesting profile takedown. See [Managing social media threats on page 118](#).
- Filter the list of profiles. See [Filtering social media threats on page 118](#).
- Add official social media profiles. See [Adding official profiles on page 119](#).
- 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 120](#).

Reviewing social media threats

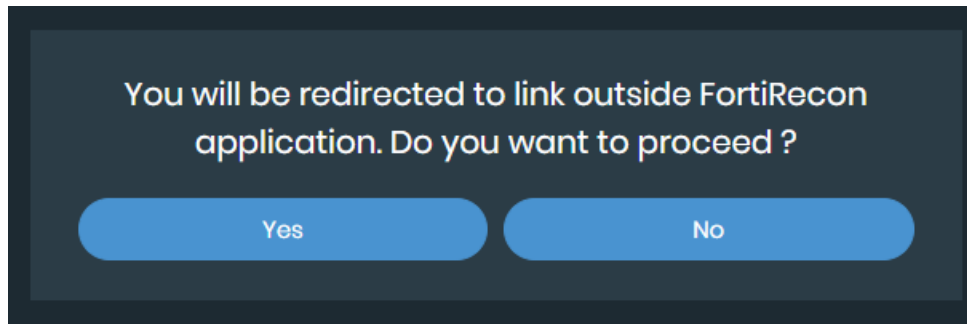
You can review information about social media threats in the *Brand Protection > Social Media Threats* page. Information displayed about social media threats includes:

- 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.

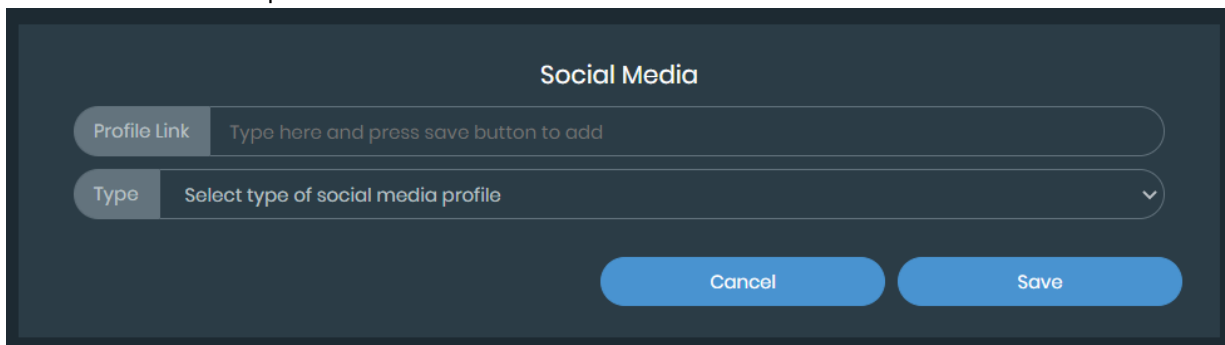
- b. Click the X beside the keyword to remove the filter.
4. Filter by status in the *By Alert Status* section:
 - Select *Active*, *False Positive*, or *Active Takedown* to filter threats by their assigned status.
5. Select the social media platform in the *By Social Media* section.
6. Click *Search*. The profiles with the matching filters are displayed.

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 text "Type here and press save button to add", and "Type" with a placeholder text "Select type of social media profile" and a dropdown arrow. At the bottom right, there are two blue buttons: "Cancel" and "Save".

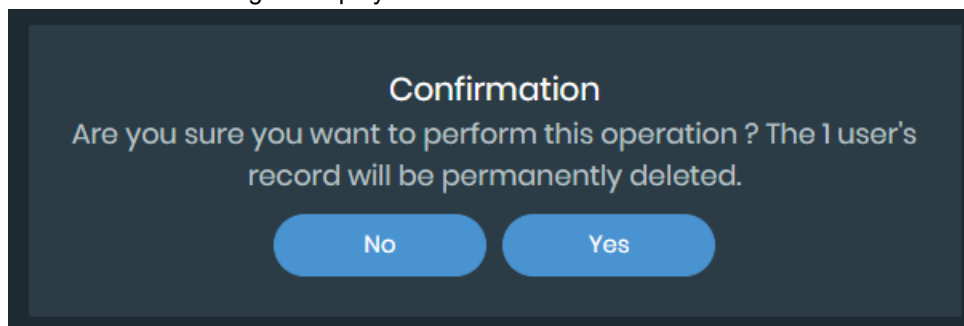
5. You can also add official social media profiles in bulk by uploading excel (XLS) file containing profile information including profile URL and type.
 - a. Click Upload XLS icon.
 - b. Browse and select the file. Click *Open*.

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 121](#).
- Filter through all flash reports available. See [Filtering reports on page 121](#).
- Download flash reports as threat intelligence reports in PDF or as an observable Microsoft Excel file. See [Downloading reports on page 122](#).
- Email and share links to flash reports with others. See [Sharing reports on page 123](#).
- Rate flash reports for relevance. See [Rating reports on page 124](#).
- Review reports and send queries to FortiRecon. See [Reviewing reports on page 125](#).

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:

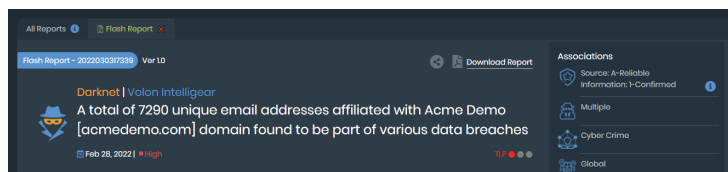
- Threat summary
- Threat detail
- Assessment



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

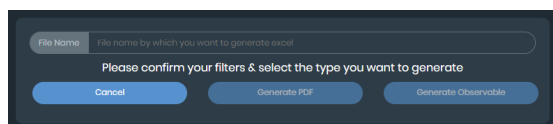
You can download reports from the *Alerts* tab as brand protection alerts in PDF or as an observable Microsoft Excel file. Brand protection alerts provide information from a flash report whereas observables outline any Indicators of Compromise (IOCs) highlighted in the flash report.

Downloaded reports can be set to include:

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

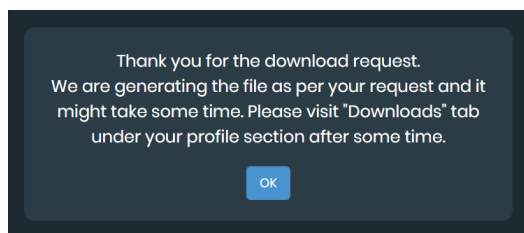
To download all reports available:

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.

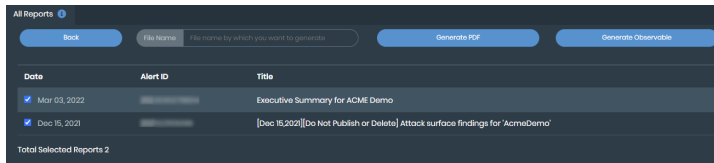
The following message is displayed:



4. Click *OK*.
5. Retrieve the report. See [Retrieving downloads on page 212](#).

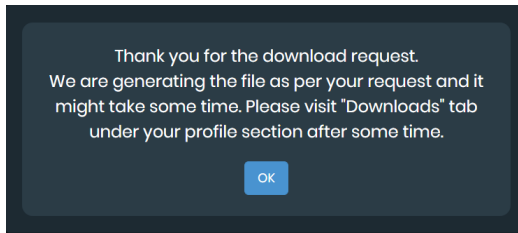
To download specific reports:

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 121](#)
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.

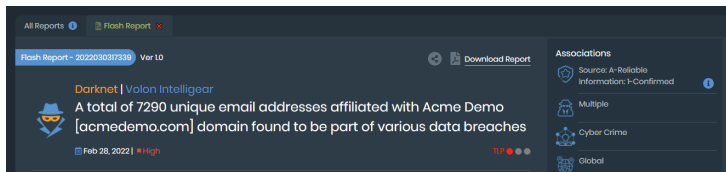
The following message is displayed:



7. Click *OK*.
8. Retrieve the report. See [Retrieving downloads on page 212](#).

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.

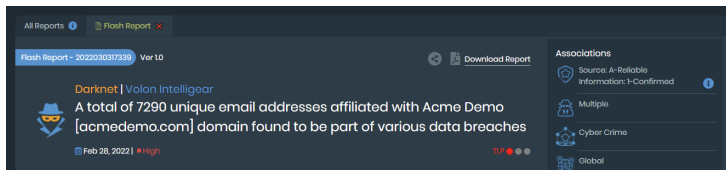
The Traffic Light Protocol (TLP) level dictates who you can share a report with:

- *TLP Red*: The report cannot be shared outside of your organization and should be restricted only to personnel who need to know.

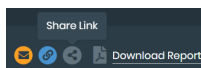
- **TLP Amber:** The report can only be shared with members of your organization and clients who need to know the information to protect themselves.
- **TLP Green:** The report can be shared with peers and partner organizations but cannot be shared on publicly accessible channels.
- **TLP White:** The 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

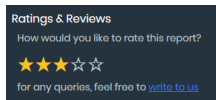
You can rate reports in a five star scale. The collection of ratings helps the FortiRecon team provide more relevant reports.



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.



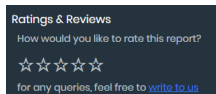
3. Click the star that corresponds to your rating out of five.
Your rating is saved, and you can change it at any time by selecting a different star.

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 125](#).
- Filter for specific mobile applications. See [Filtering rogue applications on page 126](#).
- Add official applications. See [Adding official applications on page 127](#).
- Assign an app status. See [Assigning application status on page 128](#).
- Initiate takedown of a rogue application. See [Taking down rogue apps on page 128](#).
- Export information on applications. See [Exporting rogue applications on page 129](#).

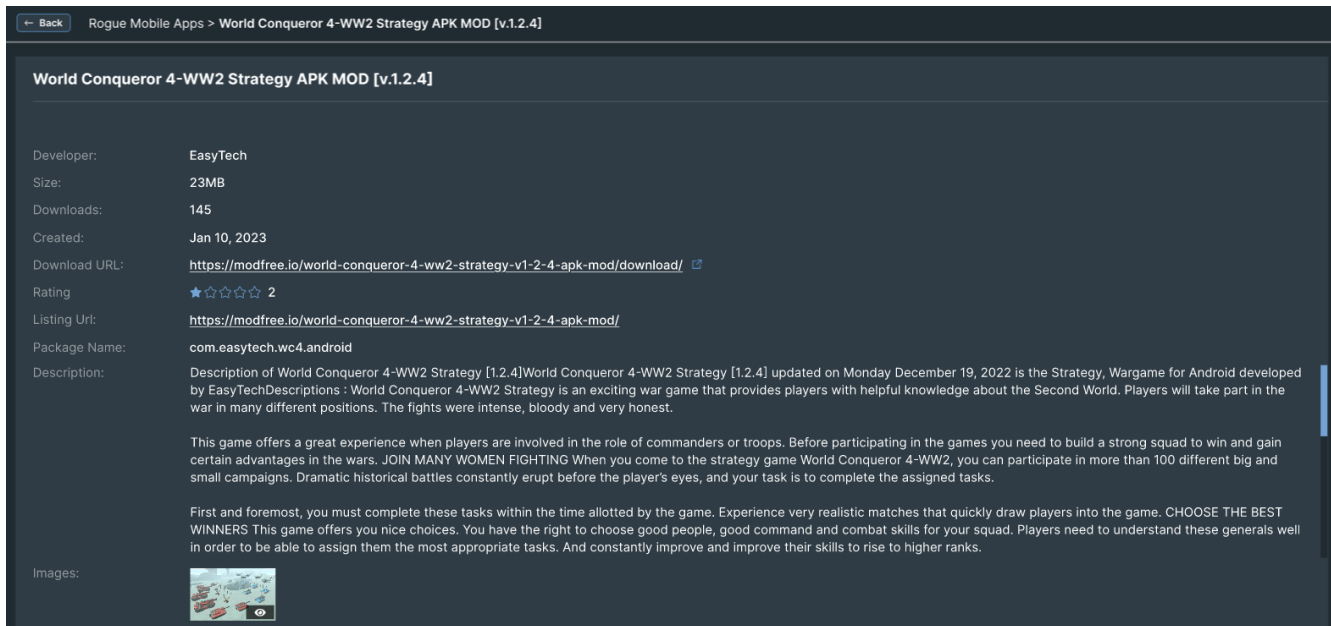
Reviewing rogue applications

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 126](#).
 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:

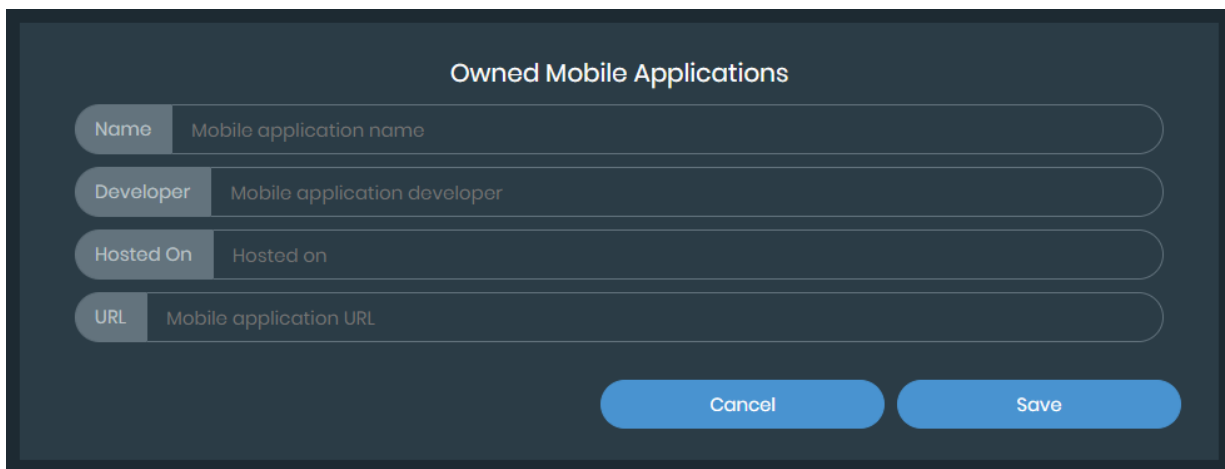
1. Go to *Brand Protection > Rogue Mobile Apps*.
2. Filter reports by a date range:
 - a. Click *Filter By Date Range*. Two calendars are displayed.
 - b. In the left calendar, select a month, year, and day to specify the start date of the range.
 - c. In the right calendar, select a month, year, and 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 *App Status*, either *Unofficial* or *Rogue*.
5. Select the *App Stores*.
6. Click *Search*. 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 text input area on the right. The labels are "Name", "Developer", "Hosted On", and "URL". The text inputs contain placeholder text: "Mobile application name", "Mobile application developer", "Hosted on", and "Mobile application URL". At the bottom right of the modal are two blue buttons: "Cancel" and "Save".

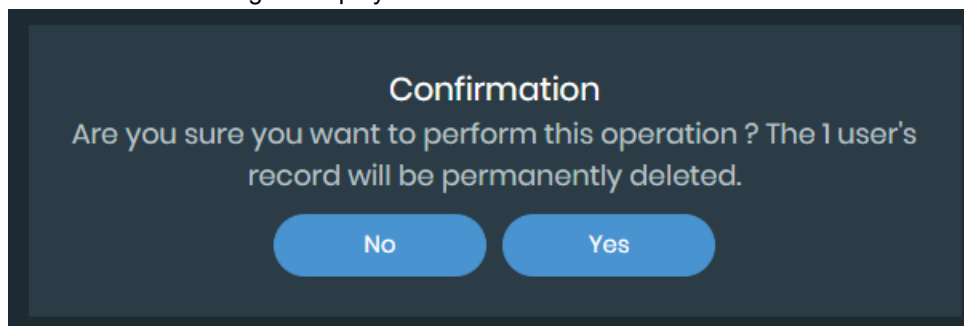
5. You can also add official applications in bulk by uploading excel (XLS) file containing application information including application name, mobile app developer, hosted on and app URL.
 - a. Click Upload XLS icon.
 - b. Browse and select the file. Click *Open*.

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.



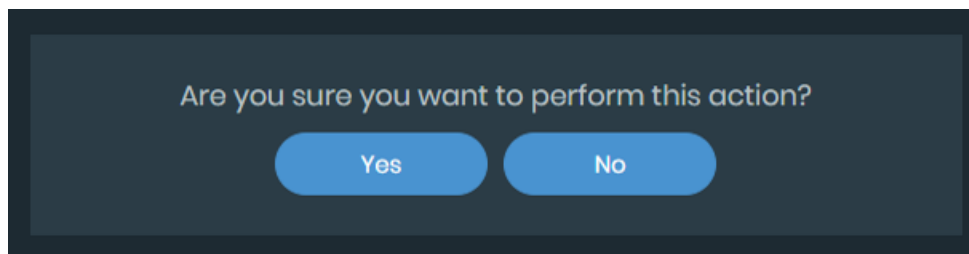
Assigning application status

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.



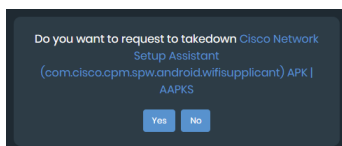
3. Click Yes.

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 128](#).
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.

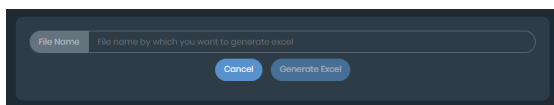
Exporting rogue applications

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

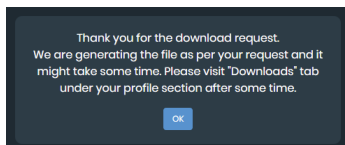
- App name and size
- Description
- Developer name and URL
- Download count and URL
- Date the app was discovered
- Listing URL
- Package name
- Source name
- Status

To export rogue application details:

1. Go to *Brand Protection > Rogue Mobile Apps*.
2. Set the desired filters. See [Filtering rogue applications on page 126](#)
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

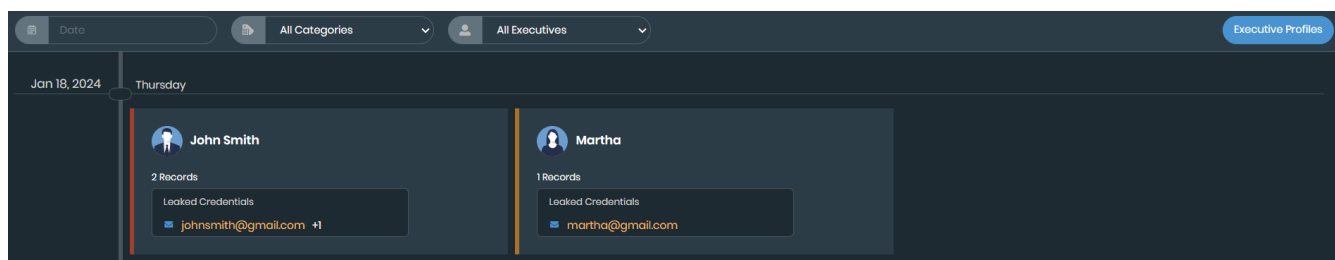
The *Brand Protection > Executive Monitoring* page provides enhanced visibility and proactive threat detection, enabling you to monitor high-profile individuals for any malicious activity, providing real-time alerts and actionable insights to mitigate potential security risks.

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 130](#).
- Filter the list of executive profile threats. See [Filtering executive profile threats on page 131](#).
- Add official executive profiles. See [Adding executive profiles on page 131](#).



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 Credentials	Instances where the executive's credentials have been exposed or compromised.
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>).

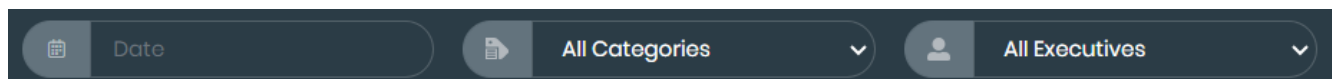
Threat Category	Description
Stealer Infections	Indications of malware or malicious software infecting the executive's devices with the intent of stealing sensitive information.
Leaked Documents	Instances where documents or files associated with the executive have been leaked or made publicly accessible 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  +

Role

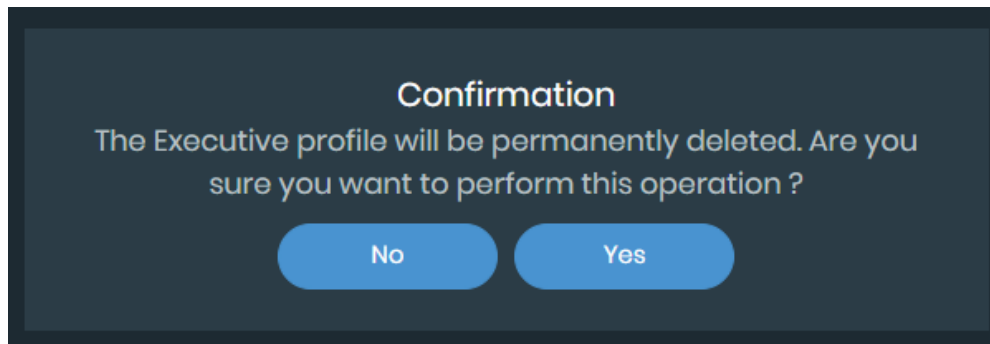
Avatar
Male    **Female**   

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 135](#).
- Take action against the discovered attributes. See [Managing attributes on page 135](#).
- Filter attributes. See [Filtering attributes on page 136](#).

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

Entity Value

acmedemo.com

Keywords

API key
Credit Card
Access Token

Severity

High
▼

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

Type and hit Enter to Search
+ -

☑ Rule Name	Entity Type	Entity Value	Keywords	Severity	Created Date	Actions
☑ 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.

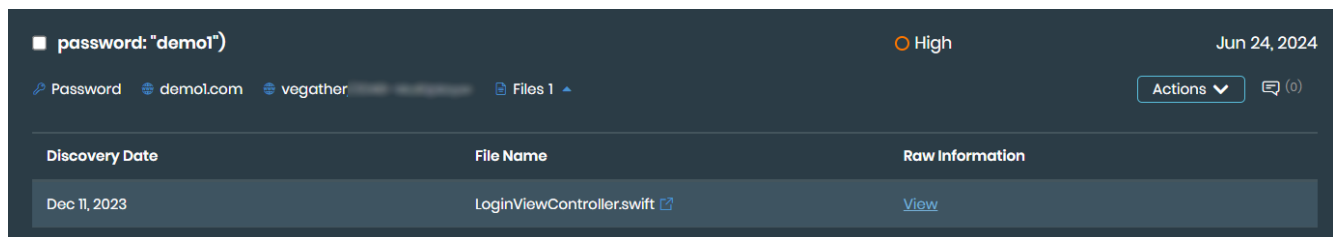
Reviewing attributes

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.



Discovery Date	File Name	Raw Information
Dec 11, 2023	LoginViewController.swift	View

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 Alert Status* 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.
9. Click *Search*. 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 137](#).
- Take action against discovered files. See [Managing files on page 137](#).
- Filter files. See [Filtering files on page 138](#).

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.

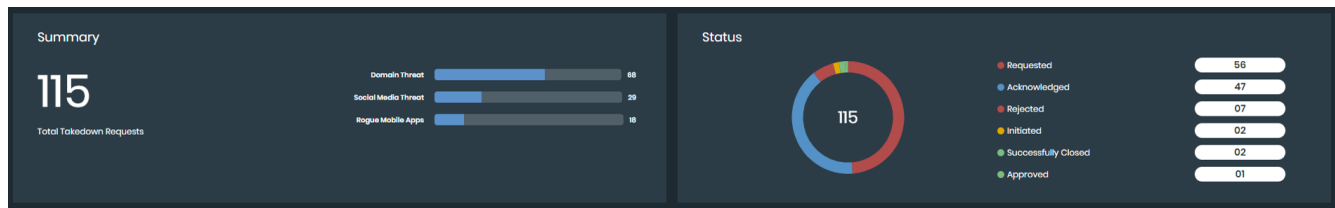
To filter files:

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 Alert Status* 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 Type* section.
8. Click *Search*. 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.



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 143](#).

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.

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

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 144 .
Reports	Displays the threat intelligence analyst reports and FortiAI Insights available to you. See Reports on page 148 .
Card Fraud	Displays information about credit or debit cards that are for sale on darknet marketplaces. See Card Fraud on page 158 .
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 160 .
OSINT - Cyber Threats	Displays OSINT-based intelligence reports about threat events. See OSINT Cyber Threats on page 165 .
Vulnerability Intelligence	Displays information on monitored CVEs. See Vulnerability Intelligence on page 170 .
Ransomware Intelligence	Displays information on total and potential ransomware incidents. See Ransomware Intelligence on page 177 .
Vendor Risk Assessment	Displays information on a vendor watchlist and the vendor's security hygiene. See Vendor Risk Assessment on page 187 .
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 198 .

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 145](#).
- View your organization's risk exposure. See [Viewing risk exposure summary on page 145](#).
- View global threat reports. See [Viewing global threat report summary on page 147](#).

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	Displays the number of email addresses related to your organization's domains that are part of third-party credential breaches. The number of exposed credentials and the number of indexed credentials are displayed.
Stealer Infection	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. The total number of compromised systems along with number of leaked and on sale compromised systems are displayed. Hover your mouse over on the <i>Employees/Users</i> chart to view the number of affected employees and users on a specific date. 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.
Associated Threats	Displays information about threats reported against your industry and geographical area. The number of reported threats that are specific to your industry and the number of reported threats in your geographic area are displayed. Click the widget to display more details on the <i>Adversary Centric Intelligence > Reports</i> page.
High Relevance Reports	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. Click a report to display more details on the <i>Adversary Centric Intelligence > Reports</i> page.
Global Event Exposure	Displays the latest, published intelligence reports related to notable cyber events from around the globe. Automatically scrolls through the reports, or click the blue bars at the bottom of the widget to view specific reports.
Card Fraud	Displays statistics related to credit or debit cards that are listed for sale on darknet marketplaces. This widget is only displayed for banking organizations that issue credit or debit cards.

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:

Relevance

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.

Click the widget to display more details on the *Adversary Centric Intelligence > Reports* page.

Categories

Displays the number of reports for each category, such as Darknet, TechINT, OSINT, and HUMINT.

	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: - 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* section provides comprehensive threat intelligence reports. This section includes the following component.

- [Analyst Reports](#)
- [FortiAI Insights](#)

Analyst Reports

The *Adversary Centric Intelligence > Reports > Analyst Reports* page displays curated reports by our expert threat analysts, offering in-depth insights into emerging threats and trends. From the *Adversary Centric Intelligence > Reports > Analyst Reports* page, you can:

- View the details of each report. See [Viewing analyst reports on page 149](#).
- Apply filters to the list of reports to hone in on specific reports. See [Filtering analyst reports on page 150](#).
- Download a PDF of reports. See [Downloading analyst reports and observables on page 152](#).
- Share reports. See [Sharing analyst reports on page 153](#).
- Export observables to Microsoft Excel format. See [Exporting observables on page 154](#).

Viewing analyst reports

The *Adversary Centric Intelligence > Reports > Analyst Reports* page displays all the reports available to you on the *All Reports* tab. By default all reports are displayed, starting with the latest report.

You can filter the list of reports, and search the list of reports using a keyword. See [Filtering analyst reports on page 150](#).

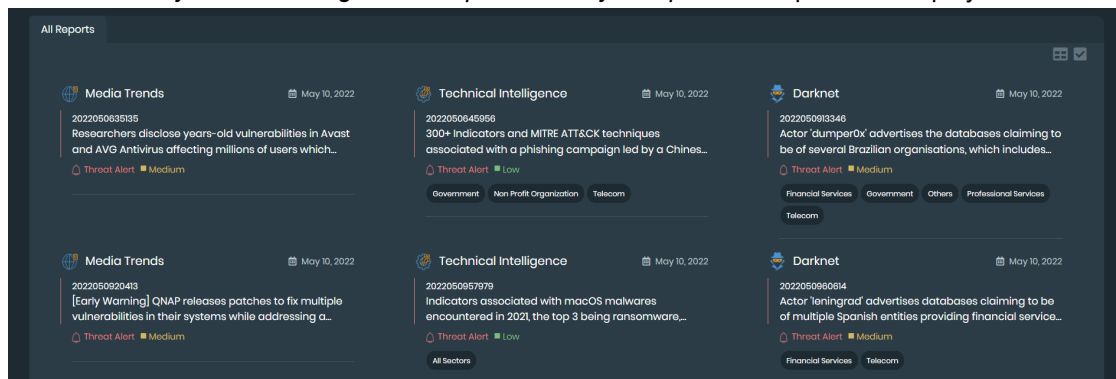
When you open a report, its details are displayed on a separate tab, and you can download a PDF of the report, share the report with another person, and access related reports. When the report contains associated observables, you can download them in Microsoft Excel format.

From an open report, you can also click associated tags to filter the list of reports on the *All Reports* tab, and then access additional related reports.

See also [Rating reports on page 124](#).

To view analyst reports:

1. Go to *Adversary Centric Intelligence > Reports > Analyst Reports*. All reports are displayed in the *All Reports* tab.

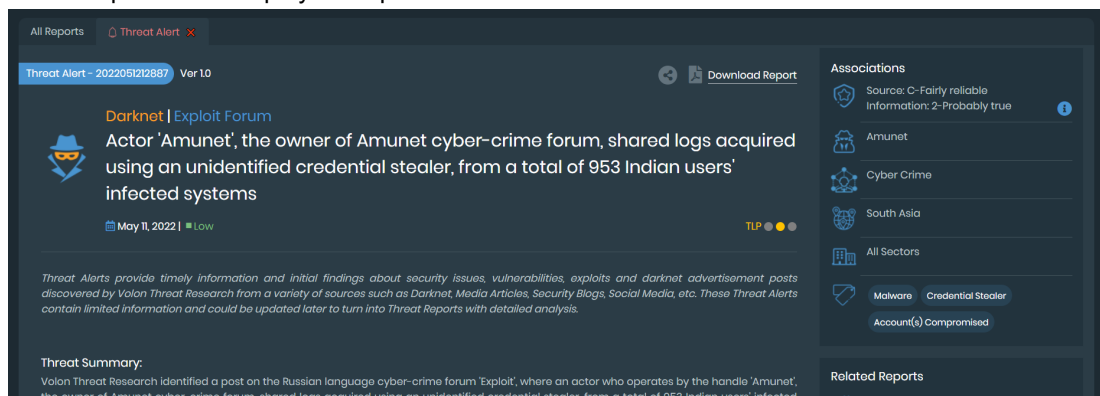


2. On the *All Reports* tab, toggle between *Grid View* and *Table View*.

In the following example, *Table View* is selected, and you can click the *Grid View* button to change to *Grid View*.

All Reports Grid View				
Date	Title	Category	Type	Relevance
May 10, 2022	202205093346 Actor 'dumper0x' advertises the databases claiming to be of several Brazilian organisations, which includes government entities and banks	Darknet	Threat Alert	Medium
May 10, 2022	202205090904 Actor 'leningrad' advertises databases claiming to be of multiple Spanish entities providing financial services and a Telecom company, containing users personal details	Darknet	Threat Alert	Medium
May 10, 2022	202205028316 [Early Warning] Actor 'NetSec' shared URL to the Github repository containing the proof of concept exploit code for CVE-2022-1388, a critical remote code execution bug affecting FB BIG-IP	Darknet	Threat Alert	Medium

3. Click a report title to display the report details in a new tab.



From the report details page, you can:

- Hover over various icons and words to view tooltips of information.
- Click some words to display more information. For example, click *TLP* (traffic light protocol) to display definitions of the different TLPs and rules around sharing the information.
- Click the *Share Link* button to share a link to the report with another person who has a FortiRecon account.
- Click the *Download Report* link to download a PDF of the report to your computer.
- View and search associated observables as well as click *Export Observables* to download the list of observables in Microsoft Excel format.

From *Associations* area on the right, you can:

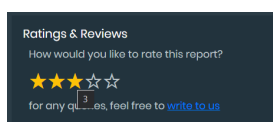
- View what is associated with the report, such as the reliability rating, adversary, motivation, tags, and so on.
- Click the *i* icon to view information about reliability ratings.
- Click a tag to return to the *All Reports* tab to view the list of reports filtered on the selected tag.

From *Related Reports* area on the right, you can:

- View a list of reports related to the open report.
- Click a related report to open it in a new tab.
- Click a tag to return to the *All Reports* tab to view the list of reports filtered on the selected tag.

From *Ratings & Reviews* area on the bottom-right, you can:

- Click the *Write to us* link to open an email message and send a query.
- Rate the report by clicking the stars at the bottom-right of the page.

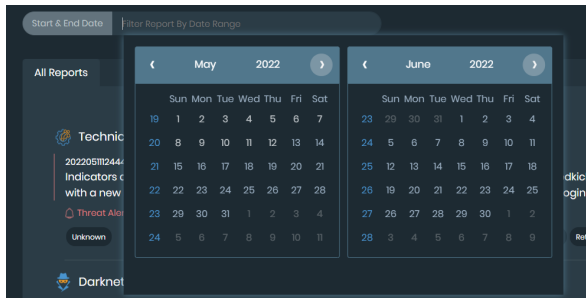


Filtering analyst reports

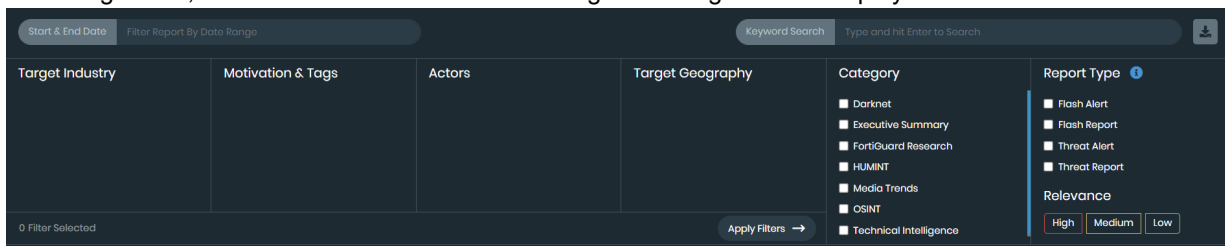
Reports can be filtered by date range, keywords, categories of filters, and relevance to your organization.

To filter reports:

1. Go to *Adversary Centric Intelligence > Reports > Analyst Reports*.
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.
4. Filter reports by categories:
 - a. On the right side, click the *Filters* button. The following filter categories are displayed:



- *Target Industry*
 - *Motivation & Tags*
 - *Actors*
 - *Target Geography*
 - *Category*
 - *Report Type*
- b. Click *Apply Filters*, and select one or more filters for *Target Industry*, *Motivation & Tags*, *Actors*, and *Target Geography* categories. Click *Apply*.

To clear all the selected filters click *Clear All*. To clear the selected filters for a specific category, click *Clear* next to the category name in the *Filters Selected* pane.

- c. Under *Category* and *Report Types*, select checkboxes to enable the filters, and clear checkboxes to disable filters.
- d. Under *Report Type > Relevance*, click *High*, *Medium*, and/or *Low* to enable the filters, and clear the filters to disable them.

Downloading analyst reports and observables

You can download a PDF of the reports displayed on the *Adversary Centric Intelligence > Reports* page to your hard drive. A maximum of 300 reports can be downloaded at one time.

When the report includes Indicators of Compromise (IOCs), you can click the *Generate Observable* button to download the IOCs in Microsoft Excel format.

When you open a report, you can download a PDF of the open report.

To download reports:

1. Go to *Adversary Centric Intelligence > Reports > Analyst Reports*.
2. Filter the reports. See [Filtering analyst reports on page 150](#).
The filtered list of reports is displayed.
3. (Optional) Select which of the filtered reports to download:
 - a. Click the *Download Specific Reports* button. Checkboxes are displayed beside each report title.
 - b. Select the checkbox beside each report you want to download.

- Click the **Downloads** button. A confirmation dialog is displayed.

- In the **File Name** box, type a name.
- (Optional) If the report contains IOC information, you can click **Generate Observable** to download IOC information in Microsoft Excel format.
- Click **Generate PDF**.
A dialog is displayed.

- Click **OK**.
- Retrieve the download. See [Retrieving downloads on page 212](#).

To download a PDF from an open report:

- Go to **Adversary Centric Intelligence > Reports**.
- Click a report to display its details.

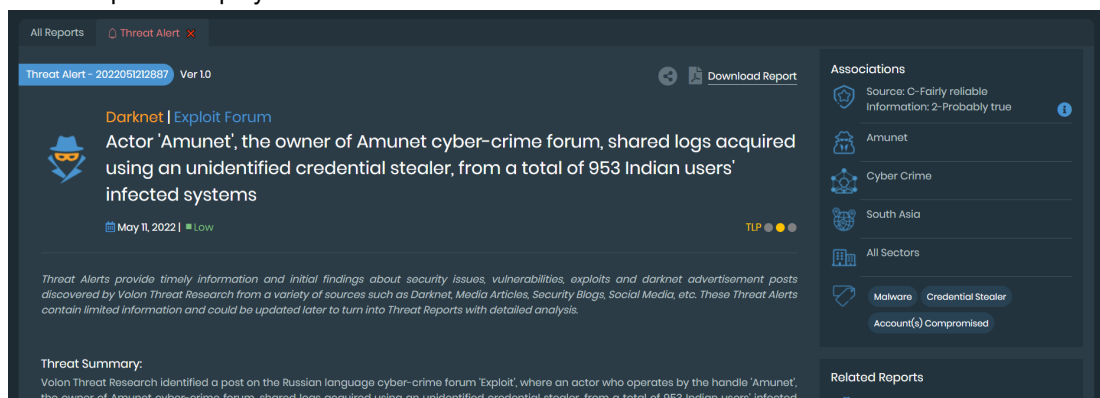
- Click the **Download Report** button.
A PDF of the report is downloaded to your computer.

Sharing analyst reports

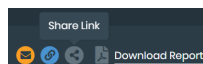
You can share reports by using a link or an email.

To share a report:

1. Go to *Adversary Centric Intelligence > Reports > Analyst Reports*.
2. Click a report to display its details.



3. Click the *Share Link* button.
The *Email* and *Copy Link* buttons are displayed.

**Exporting observables**

When a report has associated observables, they are displayed at the bottom of the report in the *Associated Observables* section.

You can download the list of observables in Microsoft Excel format. The downloaded file is password protected. FortiRecon provides the password you need to open the file in Microsoft Excel.

To export observables:

1. View a report. See [Viewing analyst reports on page 149](#).
2. Scroll down to the *Associated Observables* section.
In the following example, the report has 741 associated observables:

Associated Observables 741		
Observable	Type of Observable	Number of Matching Reports
2cc4534b0dd0e1c8d5b89644274c0c1	hash	3
735ee2a15c0b7172f65d39f0fd33b9186ee69653	hash	3
905e0119ad9d3e54cd228c458alb5681abaf35df782977a23812ec4efa0288a	hash	3
130.0.233.178	ip	2
0afcf4d5f6310de87c2e422d7804e66279fe3e3cd8a27723225aef214e9b00	hash	2
1526fc970c0b0e5a69f0ca2284d1212c8f7c9d0e77aa264aa426041a4103e7	hash	2
13a623cdfb75d99ea7e04c6157ca8ae6	hash	2
31a57376158d926ae4cfa0574143d7ee	hash	2
2f72550c99a297558235caa97d025054f70a276283998d9686c282612ebdbee0	hash	2
389f2000a22e839ddafb28d9cf522b0b71e303e0ae89e5fc2cd5b53ae9256848	hash	2

3. On the right, click the *Download Observables* button.

The password for the download is displayed. In the following example, the password is *intel@ioc!*.



The excel file is downloaded to your computer.

4. Open the Excel file.

You are prompted for the password.

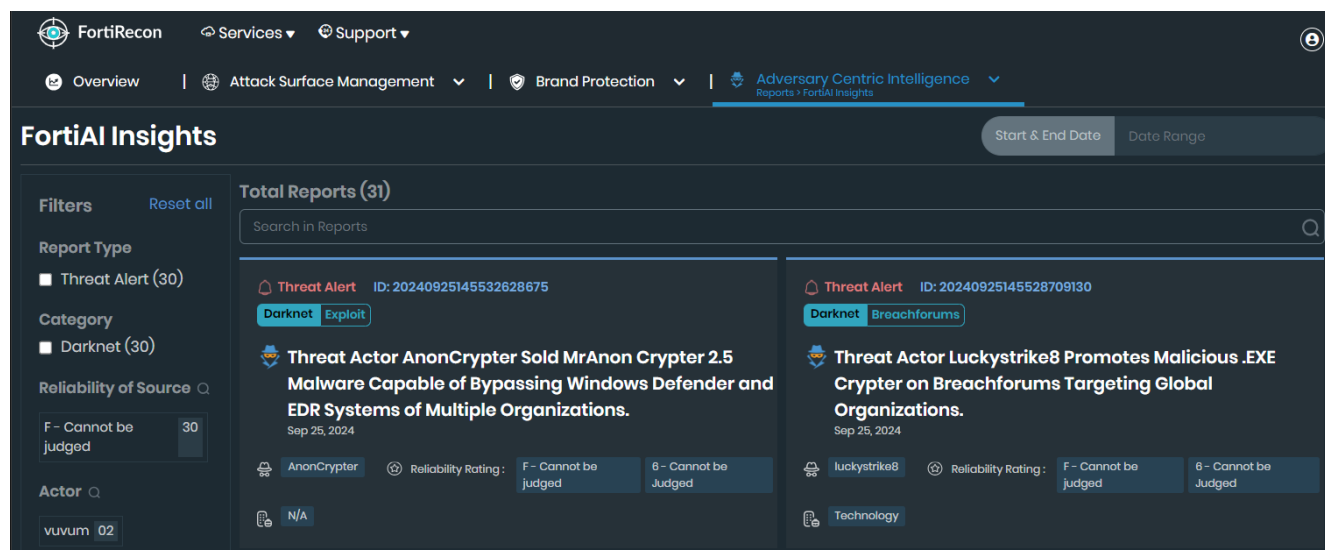
5. Type the password from FortiRecon, and click OK. The Excel file opens.

FortiAI Insights

The *Adversary Centric Intelligence > Reports > FortiAI Insights* page displays threat intelligence reports generated by our proprietary artificial intelligence, FortiAI. These reports provide enhanced threat understanding, proactive risk assessment, and faster incident response.

From *Adversary Centric Intelligence > Reports > FortiAI Insights*, you can:

- View, download, or share reports. See [Viewing FortiAI Insights reports](#).
- Apply filters to the list of reports to hone in on specific reports. See [Filtering FortiAI Insights reports](#).



Viewing FortiAI Insights reports

You can filter and search the list of FortiAI Insights reports using keywords. See [Filtering FortiAI Insights reports](#).

When you open a report, its details are displayed in the right pane. You can also download the report as a PDF or share it with others.

To view FortiAI Insights reports:

1. Go to *Adversary Centric Intelligence > Reports > FortiAI Insights*.
2. Click a report title to display the report details in right pane. The following information is displayed.
 - **Threat ID:** A unique identifier for the report.
 - **Source:** The origin of the threat intelligence.

- **Report Title:** A concise description of the report's content.
 - **Report Date:** The date the report was generated.
 - **Threat Actor:** The identified entity responsible for the threat.
 - **Reliability Rating:** An assessment of the report's credibility. Click the help icon for information on how reliability ratings are assigned.
 - **Target Industry:** The specific industry or sector targeted by the threat.
 - **Target Geo:** The geographical region affected by the threat.
 - **Full Report:** A detailed overview of the threat, including post-analysis, threat actor details, affected organizations, key indicators, and additional information.
3. Click **View Full Screen** to view the report in full-screen mode.
 4. Click the **Share** to copy the report link or share the link in an email.
 5. Click the **Download** link to download a PDF of the report.

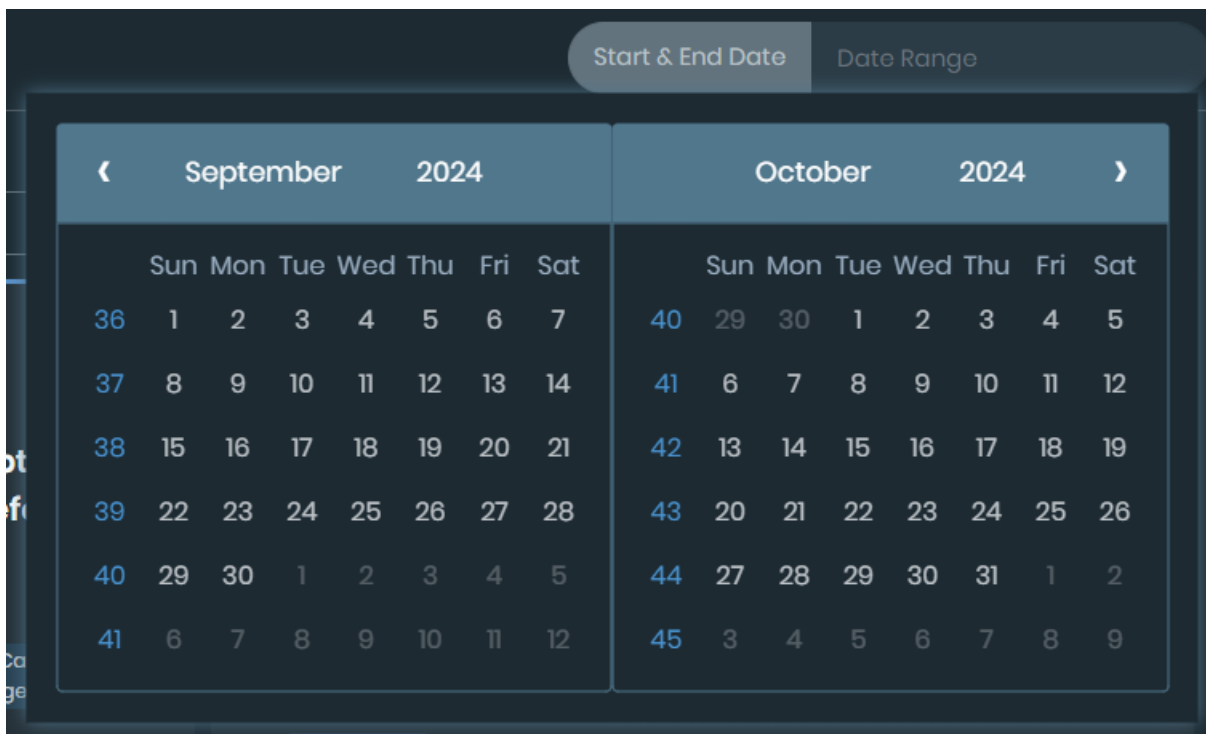
The screenshot displays the FortiAI Insights interface. At the top, there's a header with 'FortiAI Insights' and a 'Start & End Date' filter. Below this, a 'Threat Alert' section shows the ID '20240925010855520365' and buttons for 'Exit Full Screen', 'Share', and 'Download'. The main content area features a 'Threat Actor' section with the name 'WillyWonka' and a 'Threat Actor WillyWonka Selling Malware-as-a-Service Testing Package Affecting Global Organizations.' title. It also includes a 'Relevance' section with 'Informational' and a 'Reliability Rating' section with 'F - Cannot be judged' and 'G - Cannot be judged'. A 'Target Industry' section shows 'Technology' and a 'Target Geo' section shows 'Italy'. A 'Full Report' button is visible. The bottom section is titled 'Threat Summary' and 'Post Analysis', with a paragraph describing the analyzed post as a thread titled 'Mexxy | An all in one MaaS - \$60 to test it' posted on the Cryptbb forum.

Filtering FortiAI Insights reports

Reports can be filtered by date range, keywords, and categories of filters.

To filter reports:

1. Go to *Adversary Centric Intelligence > Reports > FortiAI Insights*.
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 *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.
4. Filter reports by categories:
 - a. In the *Filters* pane on the left side, the following filter categories are displayed:
 - *Report Type*
 - *Category*
 - *Reliability of Source*
 - *Actor*
 - *Target Geography*
 - *Motivation*
 - b. Select the available filters in the category you want to filter.
To clear all the selected filters click *Reset All*. To clear any individual selected filter, select it again to deselect.

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 158](#).
- Filter the information. See [Filtering leaked card information on page 158](#).
- Download the list of leaked cards to Microsoft Excel format. See [Exporting a list of leaked cards on page 159](#).

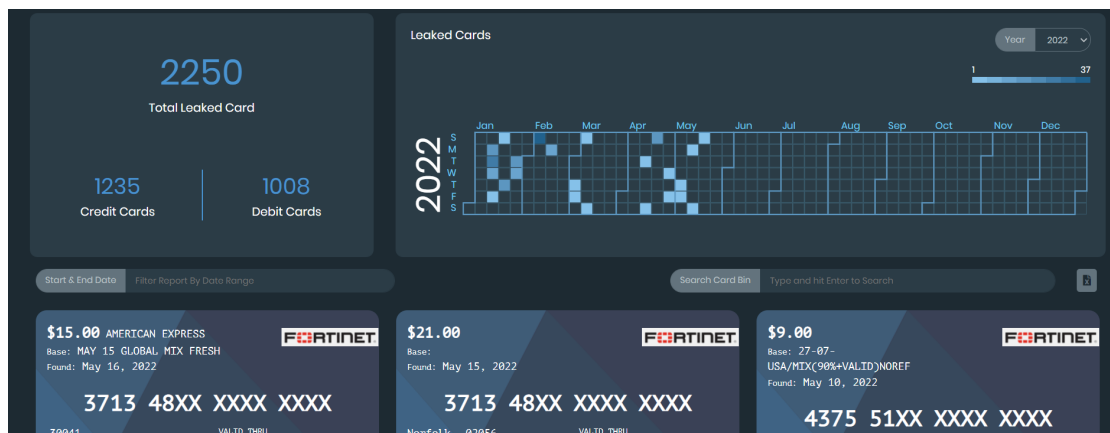
Viewing leaked card information

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.



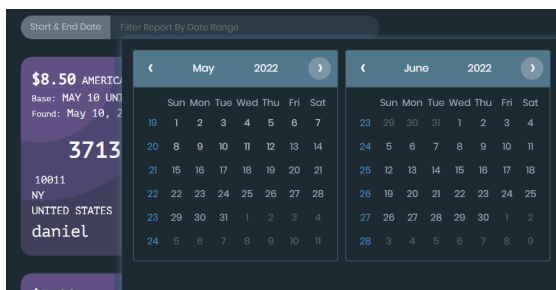
2. You can filter the displayed information. See [Filtering leaked card information on page 158](#).

Filtering leaked card information

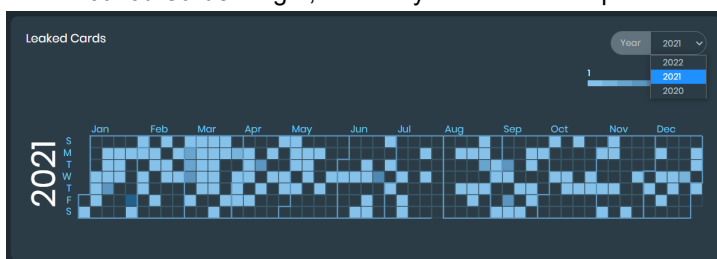
You can filter information about leaked cards by year, date range, and bank identification number (BIN).

To filter leaked card information:

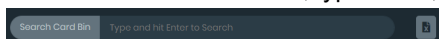
1. Go to *Adversary Centric Intelligence > Card Fraud*.
2. Filter reports by a date range:
 - a. Click *Filter Report by Date Range*. Two calendars are displayed.



- 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*.

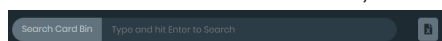


Exporting a list of leaked cards

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:

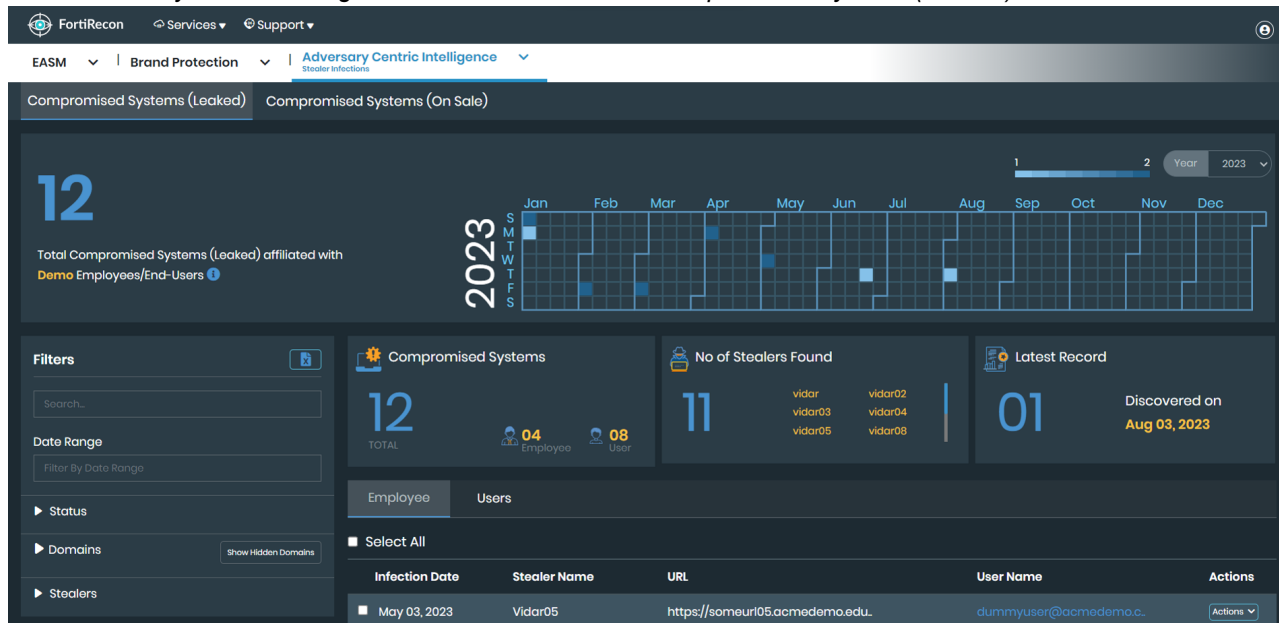
- Filter stealer infection information. See [Filtering stealer infection information on page 163](#).
- Export market place data. See [Exporting stealer infections data on page 165](#).

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 blocks indicate a stealer event. Light colored 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.



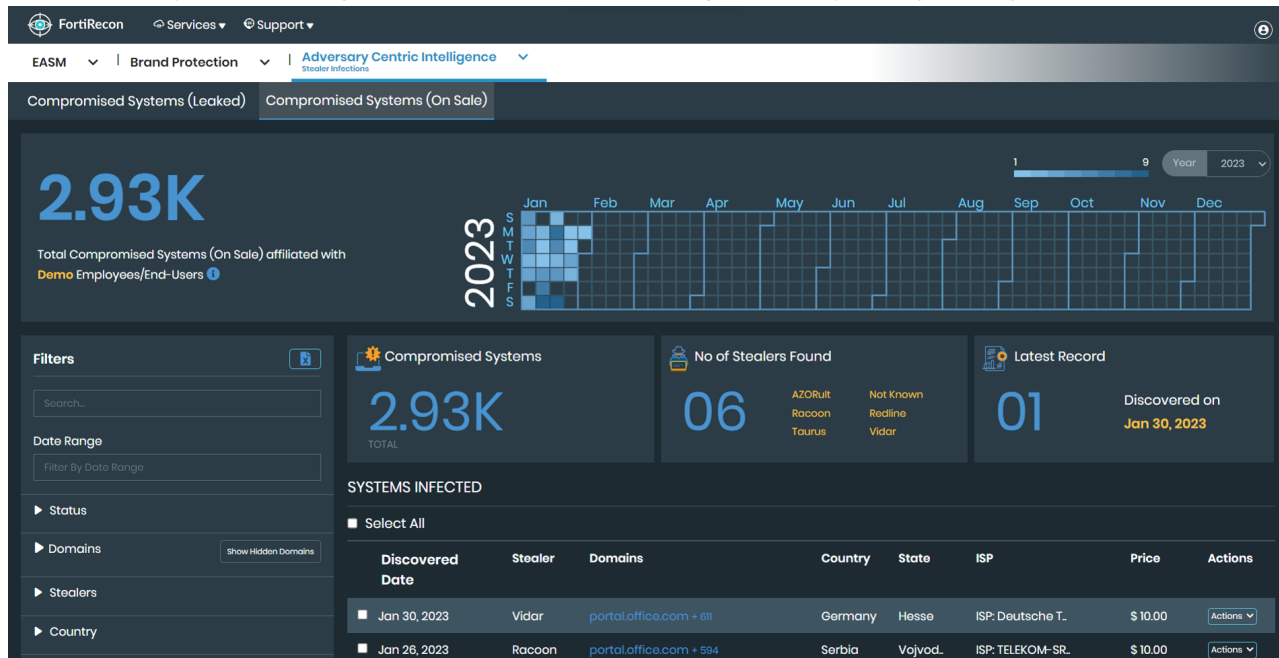
The values in all widgets are updated based on the filters applied, except for *Total Compromised Systems(Leaked) affiliated with <organization name>* value.

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.



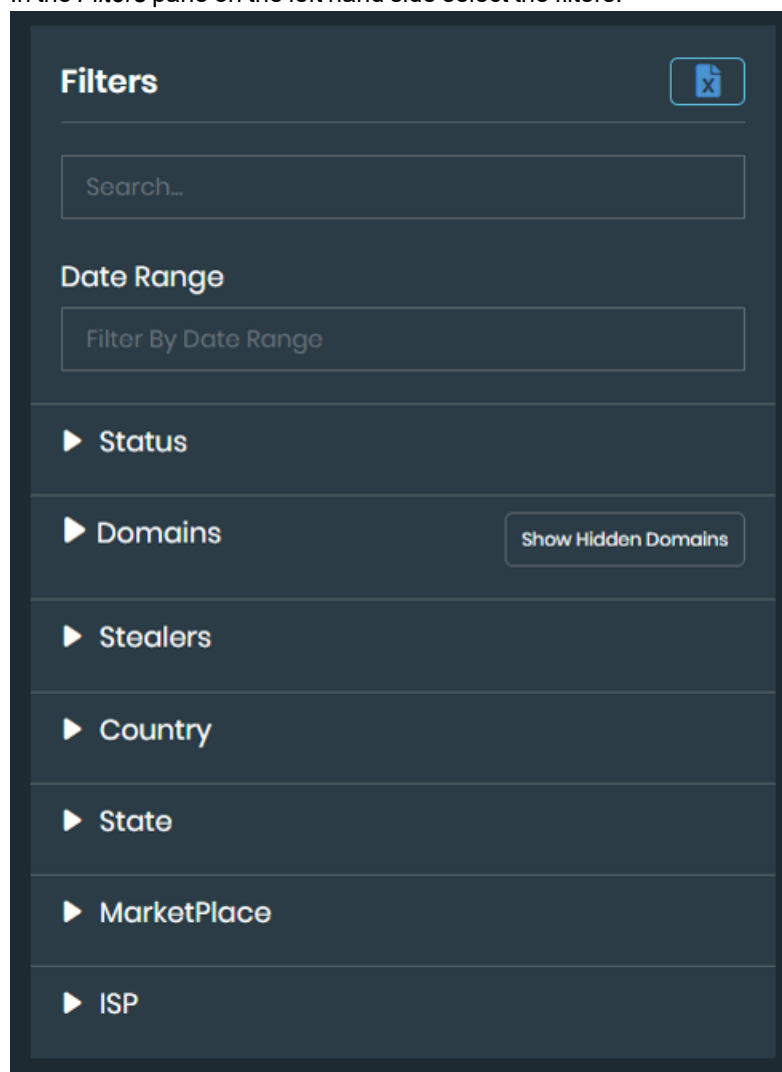
The values in all widgets are updated based on the filters applied, except for *Total Compromised Systems(On Sale) affiliated with <organization name>* value.

Filtering stealer infection information

You can use several methods to filter information in the *Stealer Infections* .

To filter stealer infection information:

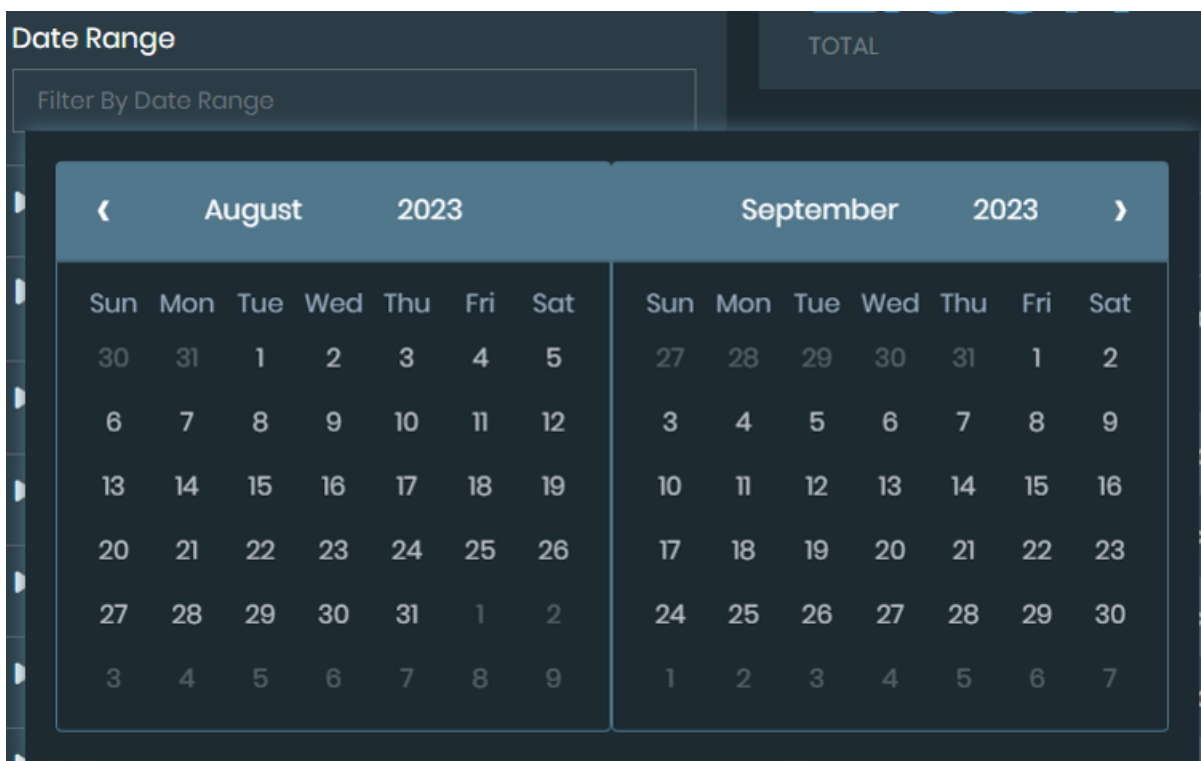
1. Go to *Adversary Centric Intelligence > Stealer Infections*.
2. Select the desired tab *Compromised Systems(Leaked)* or *Compromised Systems(On Sale)*.
3. In the *Filters* pane on the left hand side select the filters.



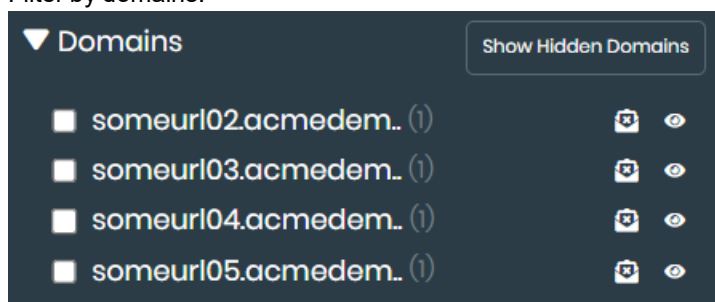
The screenshot shows a dark-themed 'Filters' pane on the left side of the interface. At the top, there is a 'Filters' header with a small icon of a document with an 'x' on it. Below the header is a search bar with the placeholder text 'Search...'. Underneath the search bar is a 'Date Range' section with a button labeled 'Filter By Date Range'. Below this is a list of filter categories, each with a right-pointing triangle icon: 'Status', 'Domains' (which has a 'Show Hidden Domains' button next to it), 'Stealers', 'Country', 'State', 'MarketPlace', and 'ISP'.

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.

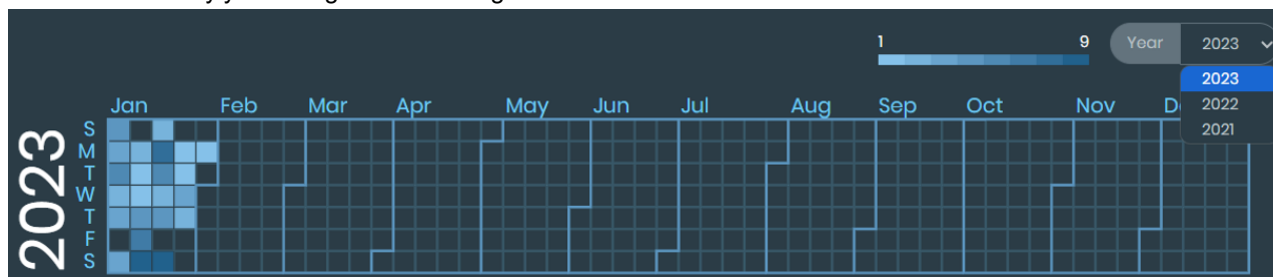


- b. In the left calendar, select a month, year, and day to specify the start date of the range.
 - c. In the right calendar, select a month, year, and day to specify the end date of the range. Only information from the date range is displayed.
 - d. Click the X in the *Start & End Date* box to remove 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:

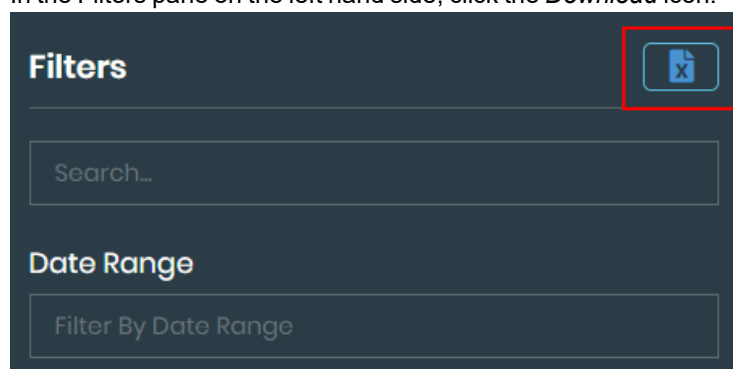


Exporting stealer infections data

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 163](#).
4. In the Filters pane on the left hand side, click the *Download* icon.



5. An *All Market Place.xlsx* file is downloaded.

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:

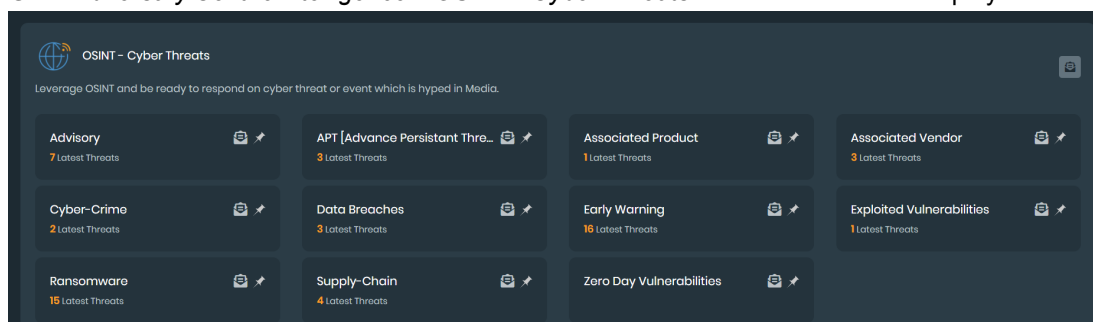
- Review threat events. See [Reviewing threats on page 166](#).
- Pin threat events to the top of the list. See [Pinning events on page 167](#).
- Subscribe to threat event notifications. See [Subscribing to event notifications on page 167](#).
- Subscribe other FortiRecon users to event notifications. See [Adding subscriptions on page 169](#).

Reviewing threats

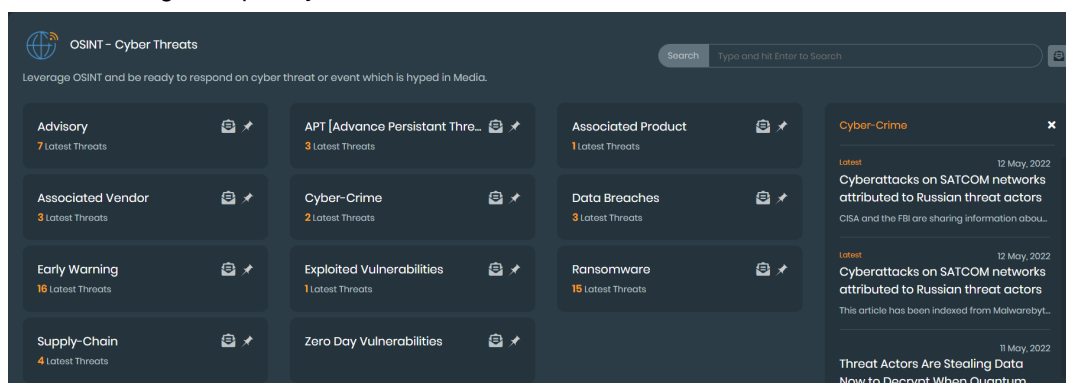
You can view more information about each threat.

To review threats:

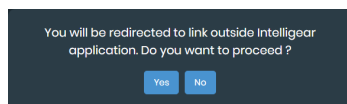
1. Go to *Adversary Centric Intelligence > OSINT - Cyber Threats*. The list of events is displayed.



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.



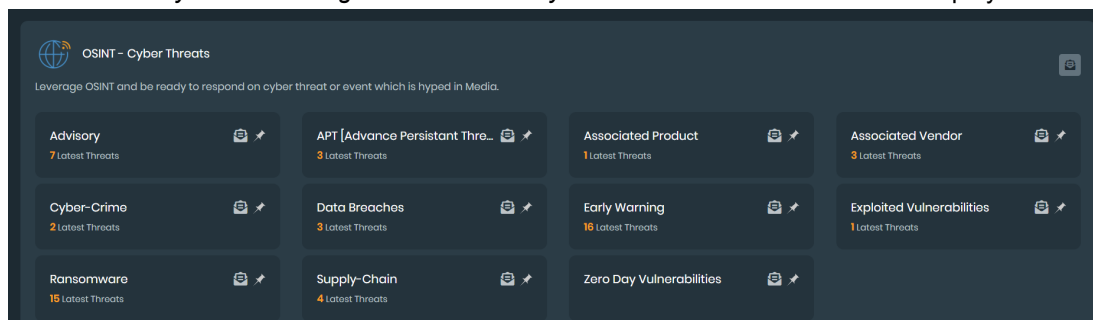
4. Click Yes to open the link in a new tab in your browser.

Pinning events

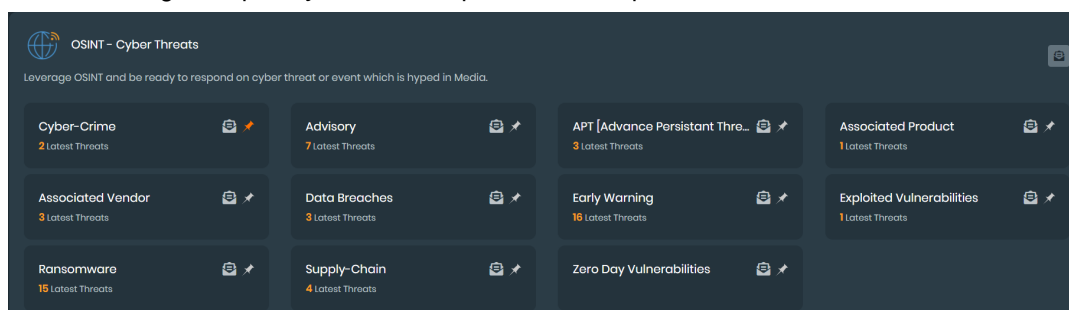
You can pin events to the top of the list. Pinned events have an orange *Pin* icon. Unpinned events have a white *Pin* icon.

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.



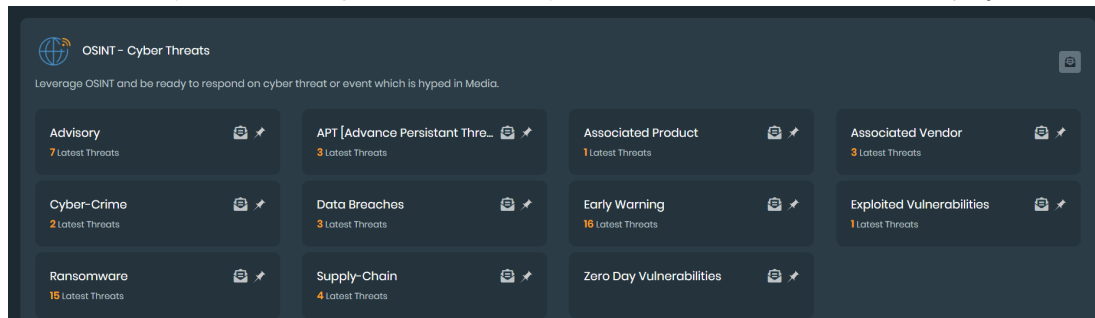
Click the *Pin* icon again to turn the pin white and unpin the event from the top of the list.

Subscribing to event notifications

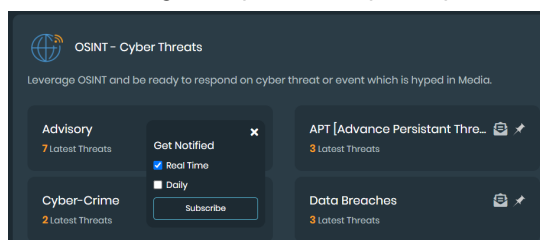
You can enable subscriptions to receive notifications for one or more threat events. You can also change subscriptions and unsubscribe.

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:

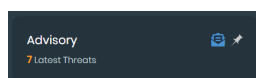
Real time

Select to receive a notification when a new threat event is published.

Daily

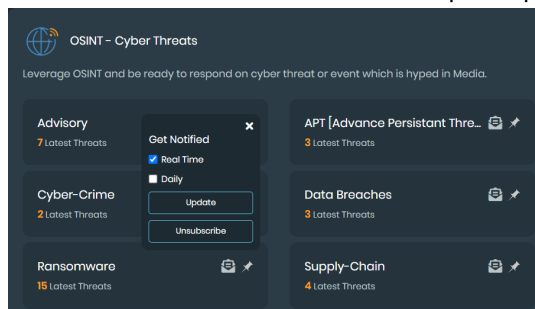
Select to specify the time each day to receive a notification about new threat events.

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:

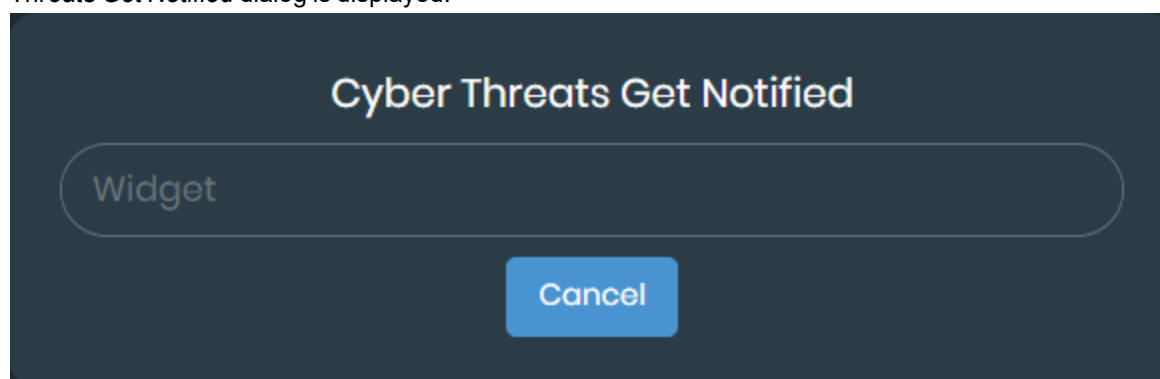
1. Go to *Adversary Centric Intelligence > OSINT - Cyber Threats*. The list of events is displayed.
2. Click a blue *Subscribe* icon. The subscription options are displayed.
3. Click *Unsubscribe*.
The *Subscribe* icon turns white, and notifications are turned off.

Adding subscriptions

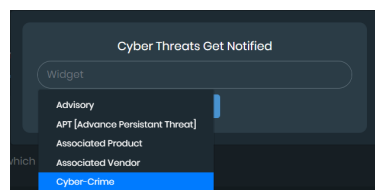
FortiRecon users with Admin privilege can set up subscriptions for other FortiRecon users to receive notifications about events.

To add subscriptions:

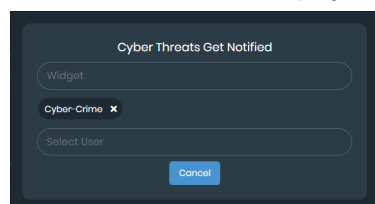
1. Go to *Adversary Centric Intelligence > OSINT - Cyber Threats*, and click the *Add Subscription* button. The *Cyber Threats Get Notified* dialog is displayed.



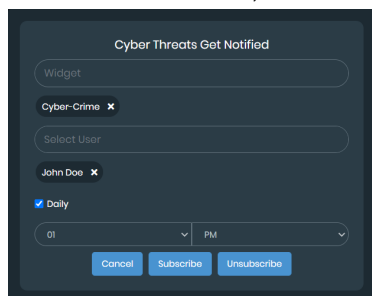
2. Click the *Widget* box, and select the threat events.
In the following example, *Cyber-Crime* is selected.



The *Select User* box is displayed.



3. In the *Select User* box, select a user.

The screenshot shows a dark-themed configuration window titled "Cyber Threats Got Notified". It contains a "Widget" label, a "Cyber-Crime" category with a close button, a "Select User" dropdown menu showing "John Doe" with a close button, a checked "Daily" checkbox, and two time selection dropdowns set to "01" and "PM". At the bottom are "Cancel", "Subscribe", and "Unsubscribe" buttons.

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 170](#).
- Review the notable global CVEs. See [Global notable vulnerabilities on page 173](#).
- View specific CVE reports. See [Viewing and filtering CVE reports on page 174](#).
- Export a list of CVEs. See [Exporting CVEs on page 176](#).
- Bulk add CVEs to monitor. See [Manually adding CVEs on page 176](#).

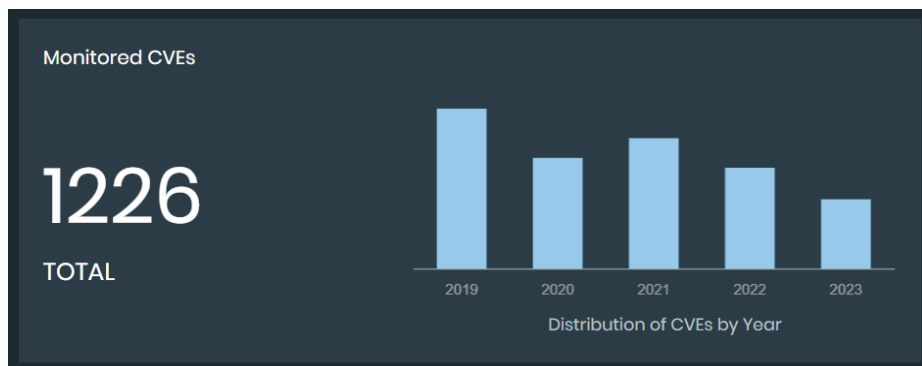
Vulnerability exposure

Monitored CVEs can be reviewed at a high level from the *Adversary Centric Intelligence > Vulnerability Intelligence* page in the *Vulnerability exposure* section:

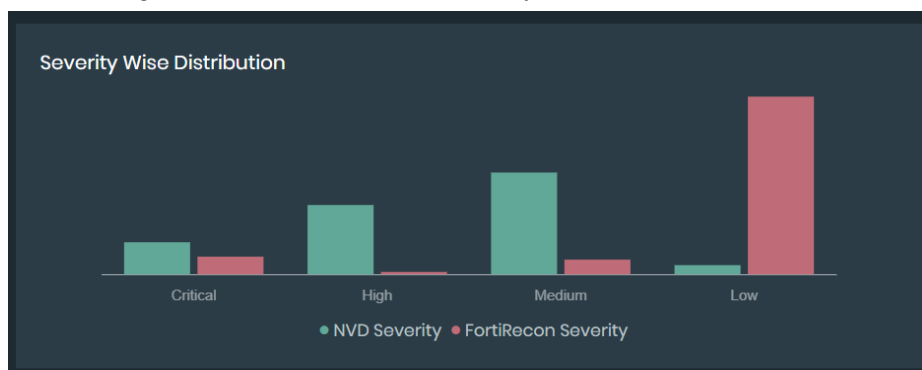


Clicking on any chart element or legend item will filter the view and navigate you to a CVE details page pre-populated with the chosen filter.

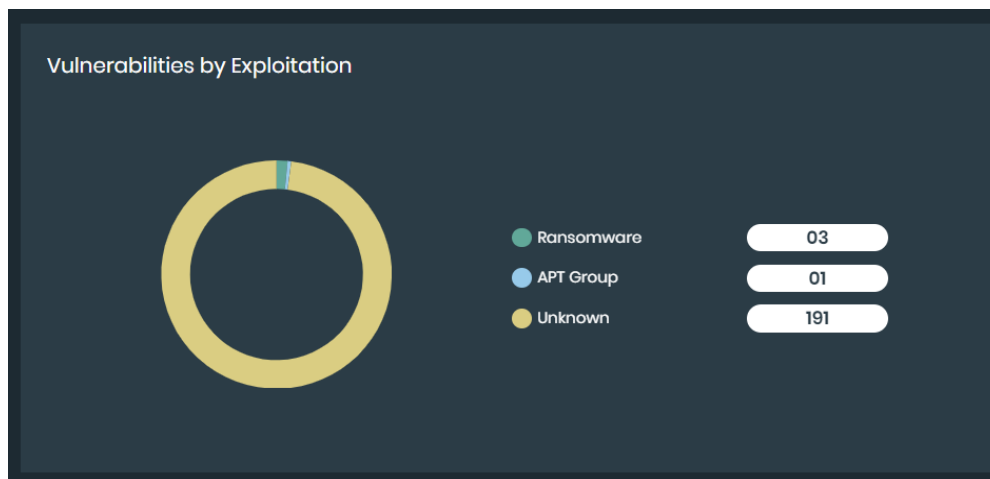
- *Monitored CVEs* : This tile displays the total count of monitored CVEs and distribution of CVEs by year graph.



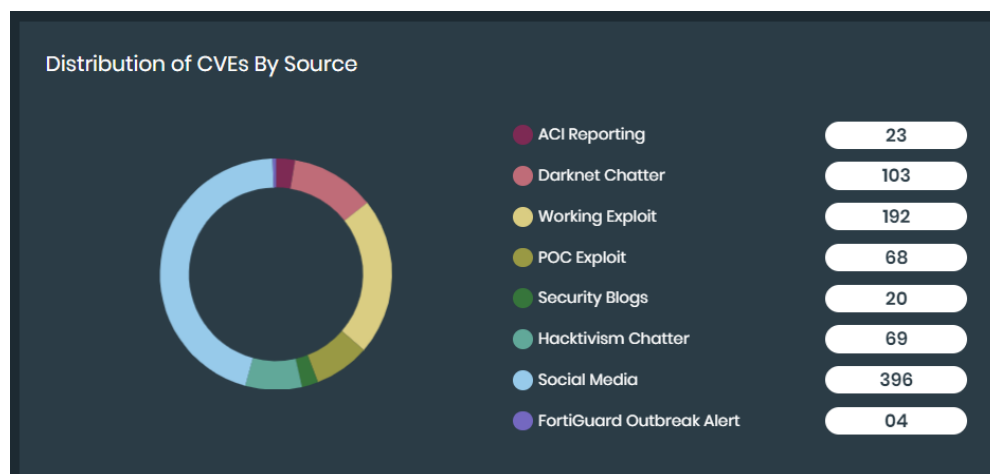
- *Severity Wise Distribution*: This tile displays a graph of CVEs to show the total count of CVEs per rating, from *Low* to *Critical* using both NVD and FortiRecon severity classifications.



- *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*.

Vulnerabilities by top 5 Products

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*.

Vulnerabilities by top 5 Vendors

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](#).

CVEs from EASM Module

CVEs added manually

FortiRecon Severity

CVE ID	Vendor	NVD Severity	FortiRecon Severity	Addition Date
CVE-2020-0796	microsoft	Critical	Critical	Jan 12,2024
CVE-2013-4547	fs, 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-2011-4885	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 SeverityView All

- *CVEs added Manually*: Displays a list of CVEs added by the user.

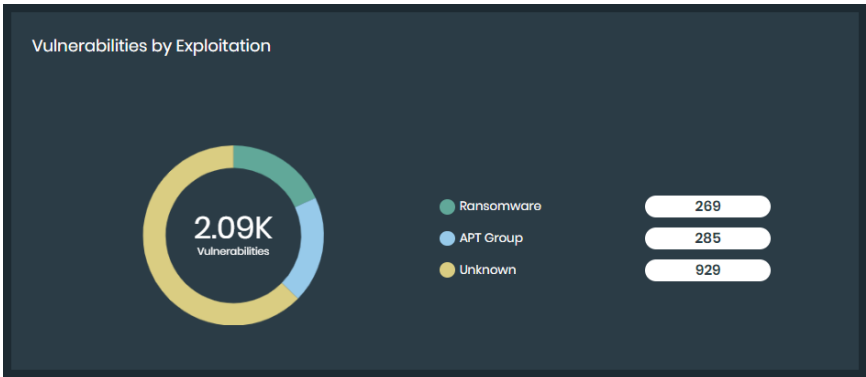
Global notable vulnerabilities

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-2020-1727	microsoft	High	Low	Mar 22, 2024
CVE-2019-9081	-	-	Low	Mar 22, 2024
CVE-2021-29484	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

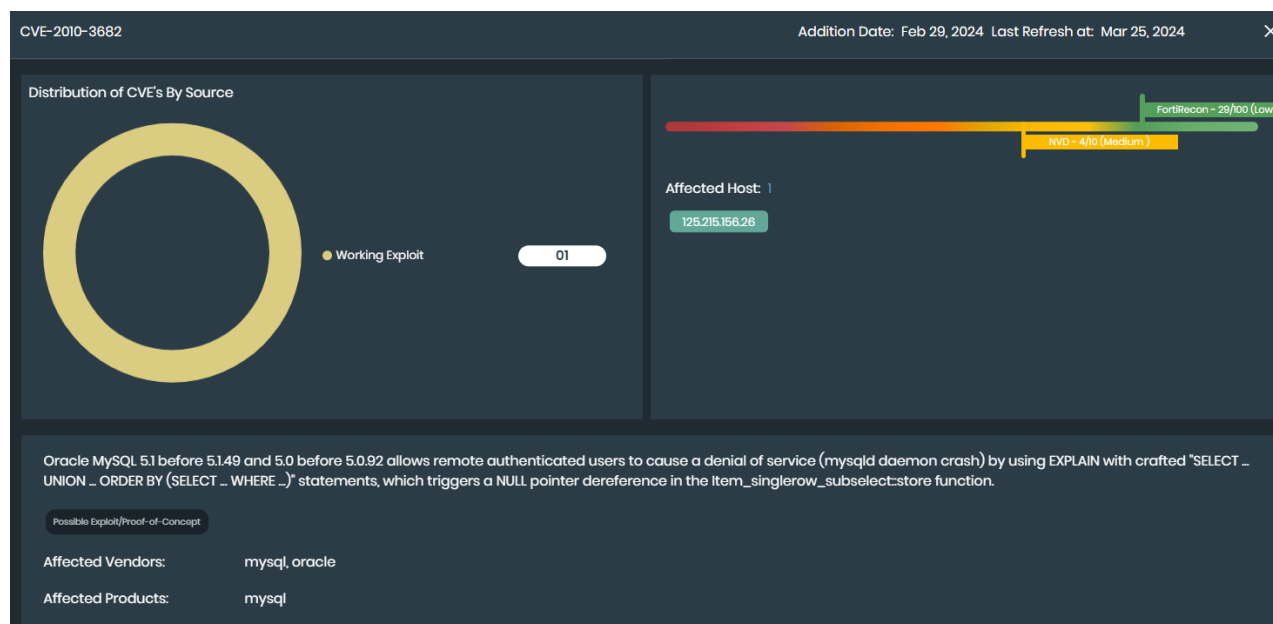
You can review detailed CVE reports in the *Adversary Centric Intelligence > Vulnerability Intelligence* page by selecting the *View All* button from the *Vulnerability exposure > CVEs from EASM Module*, *Vulnerability exposure > CVEs added Manually*, or *Global notable vulnerabilities > Latest 10 Notable CVEs* sections.

To filter reports:

1. Go to *Adversary Centric Intelligence > Vulnerability Intelligence*.
2. 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.
7. Click *Search*. The CVE reports that match the filters are displayed.
8. 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:

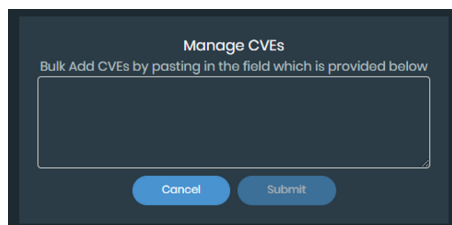
1. Go to *Adversary Centric Intelligence > Vulnerability Intelligence*.
2. Select *View All* button. The CVE cards page is displayed.
3. Filter for the reports you want included in the Excel file. See [Viewing and filtering CVE reports on page 174](#).
4. Click *Export CVE List*. An Excel file is downloaded 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 177](#).
- Filter ransomware incident information. See [Filtering ransomware intelligence on page 183](#).
- Export information on ransomware incidents to an Excel file. See [Exporting ransomware information on page 185](#).
- Create, edit, and monitor a ransomware watchlist. See [Managing My Watchlist on page 185](#).

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.

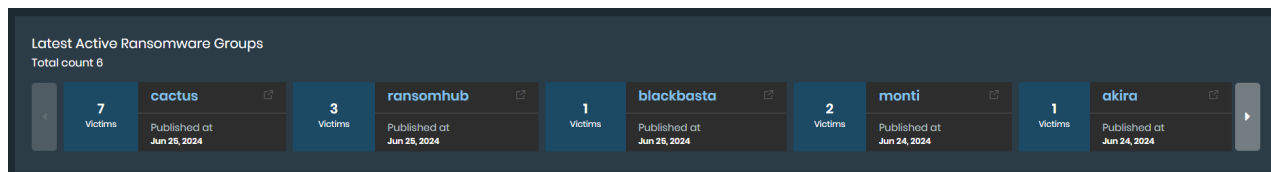


You can filter the data displayed in *Ransomware Trends* using the *Ransomware Group* and *Date* filters.

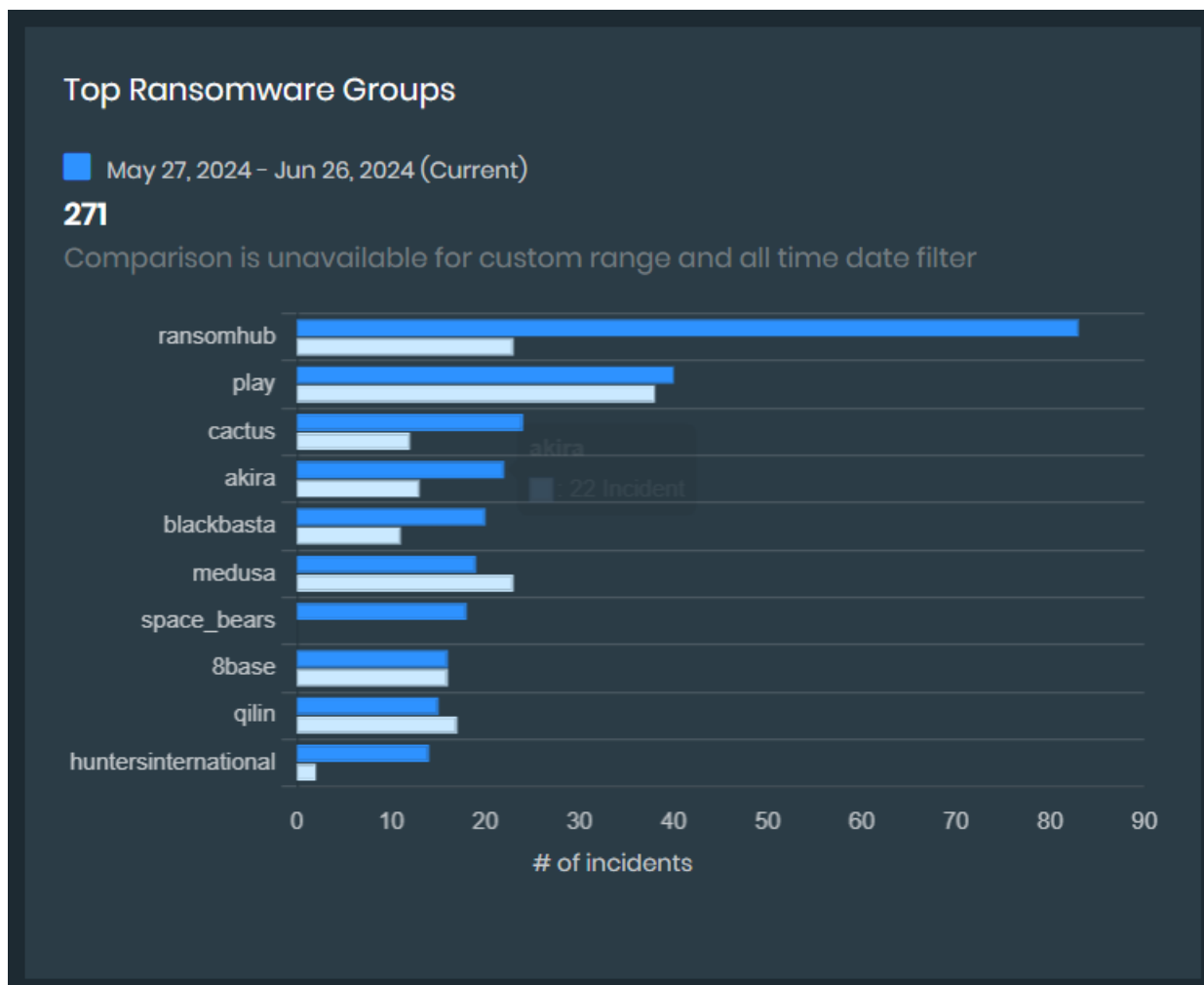
- **Summary:** A summary of total number of ransomware groups tracked, ransomware victims, most active ransomware groups, top targeted sector, and top victimized countries.



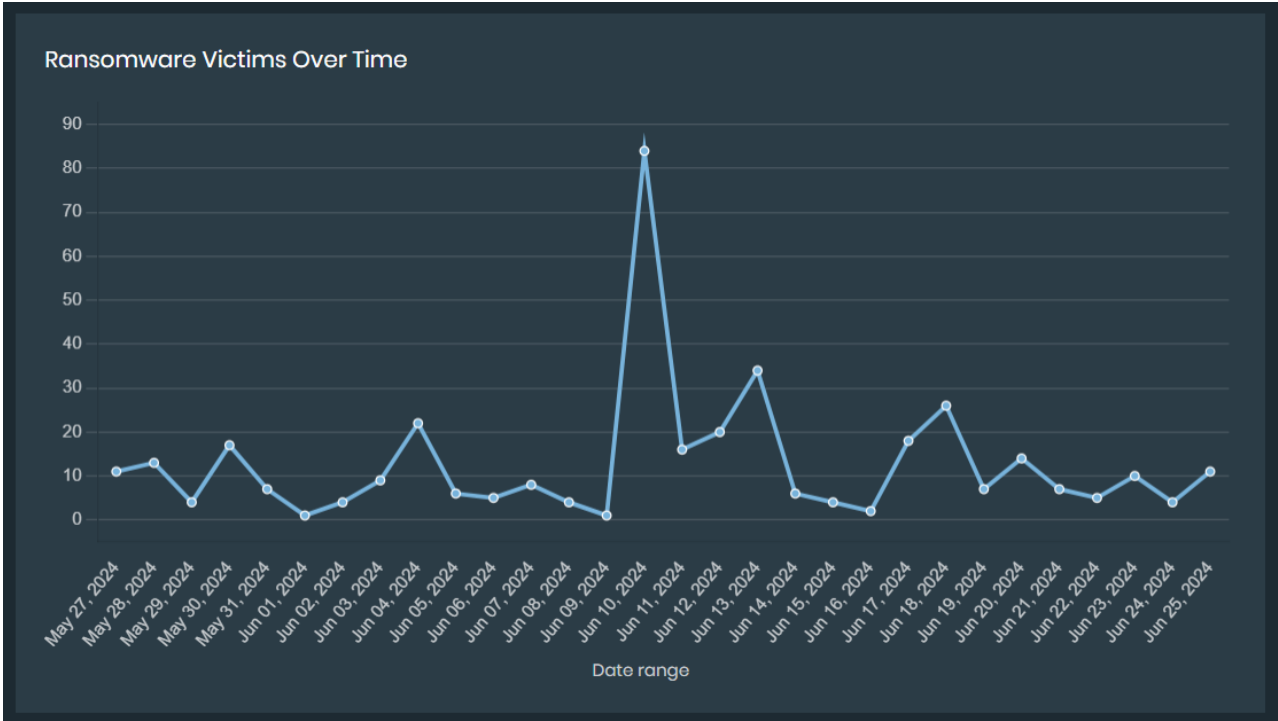
- **Latest Active Ransomware Groups:** A list of known, active ransomware groups, including victim count, group name, and published date. Click link icon to view ransomware victims affected.



- **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.



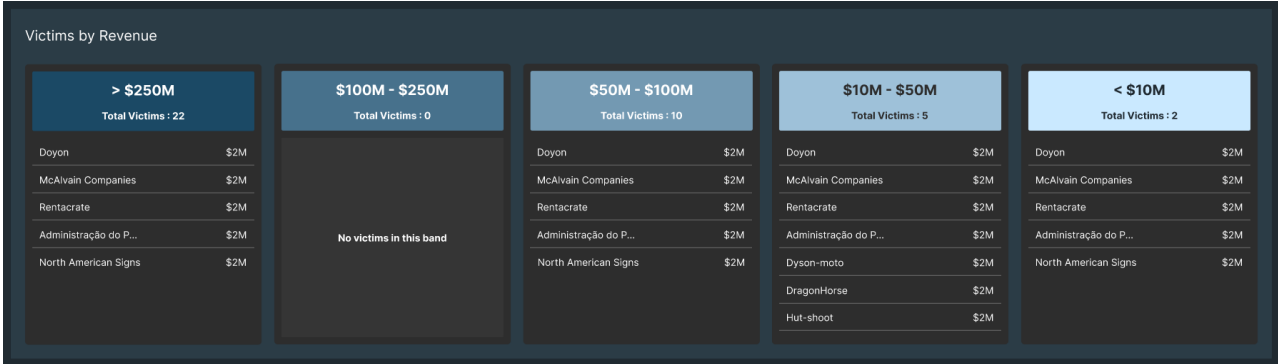
- **Ransomware Victims Over Time:** A line graph that tracks the number of ransomware victims identified over time.



- **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		
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 ALPHIV 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.

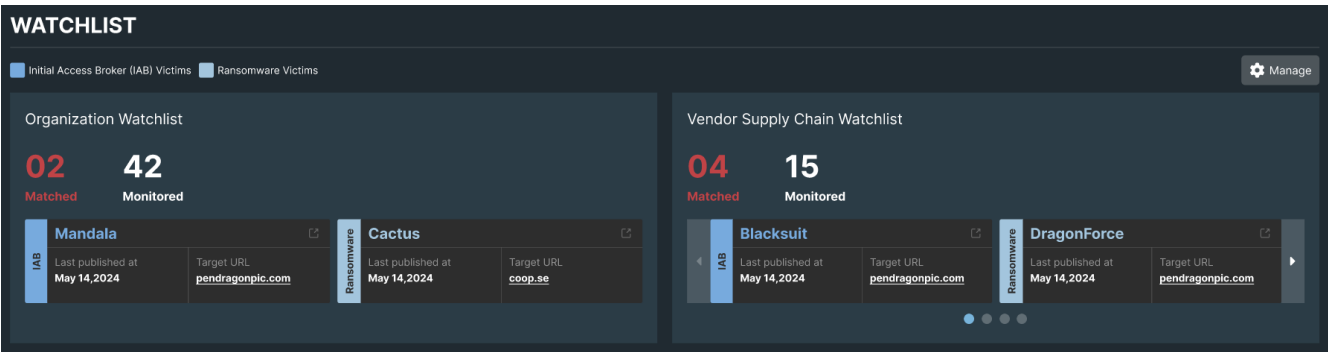
Exploited Vulnerabilities						
Report Date	Report ID	CVEs	Ransomware Group	FortiRecon Severity	NVD Severity	
Jun 13, 2024	2024061248315	CVE-2024-26169	Black Basta Ransomware Operators	Critical	High	
Jun 13, 2024	202406127011	CVE-2024-26169	Black Basta Ransomware Operators	Critical	High	
Jun 11, 2024	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	



Wazawaka	18
APT35	10
BlackCat Ransomware Operators	7
Magniber Ransomware	7
BianLian Ransomware Operators	6

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](#).



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.

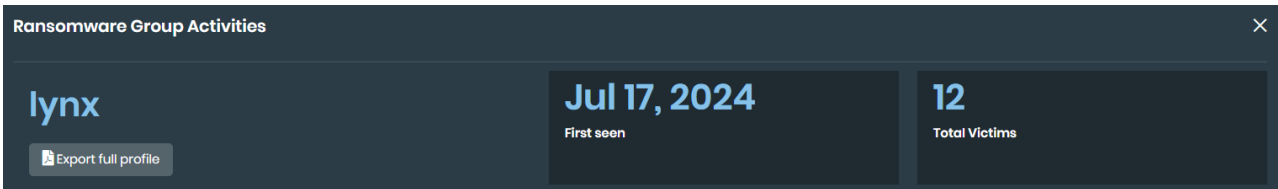
Click ransomware group name to view detailed information. See [Ransomware Group Activities](#).

LATEST RANSOMWARE VICTIMS						
Post Date	Ransomware Group	Victim Name	Domain	Revenue	Sector	Country
Jun 25, 2024	cactus	Westfalia Automotive	westfalia-automotive.com,monoflexdata.se,monoflex.nu	19M	Consumer Services	Germany
Jun 25, 2024	cactus	Hydmech	hydmech.com	47M	Manufacturing,Industrial Machinery & Equipment	Canada
Jun 25, 2024	cactus	Daystar Television	daystar.com,constructionmaps.net,daystarllp.com,daystarassocates.com,daystarsolar.com,daystartrading.com,daystar-usa.com,daystar.net,christianchurchraleighnc.com	120M	Organizations,Religious Organizations	United States

Ransomware Group Activities

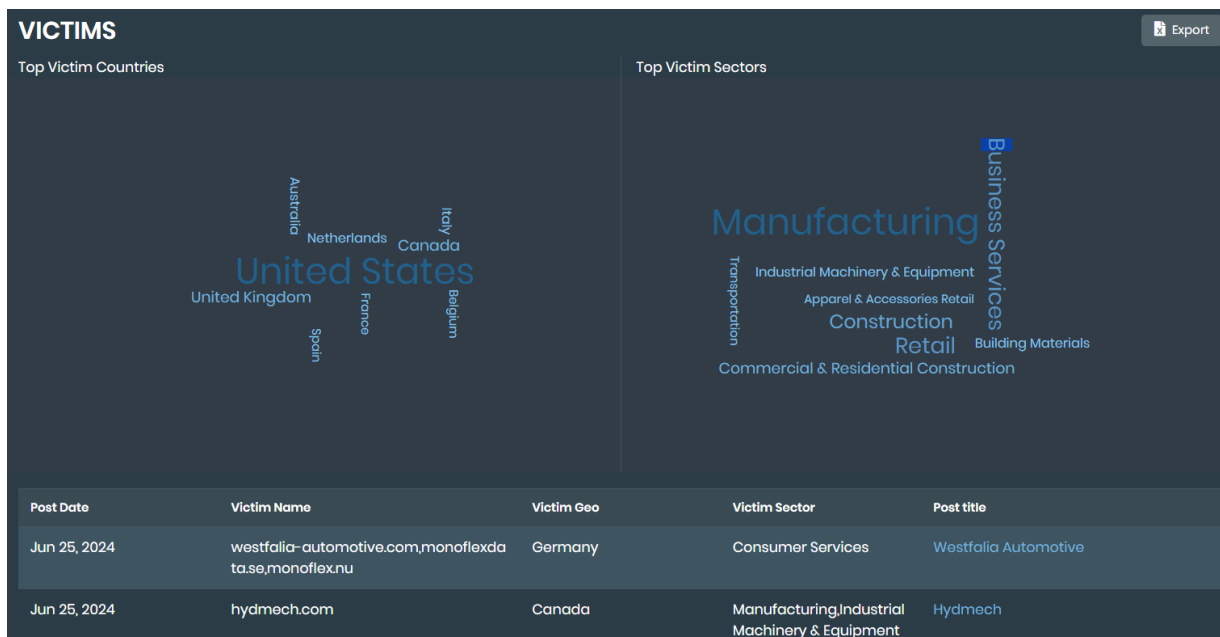
This page provides detailed information about a specific ransomware group, including its activity, victims, exploited vulnerabilities, and technical indicators. It includes following sections.

- 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 *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.



- **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			
6cb87cad36f56aefcefb6754605c00ac92e640857fd7ca5faab7b9542ef80c96	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.
4. Click *Search*. 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.
4. Click *Search*. 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 183](#).
5. Click the *Export List* icon. The file is downloaded to your computer.

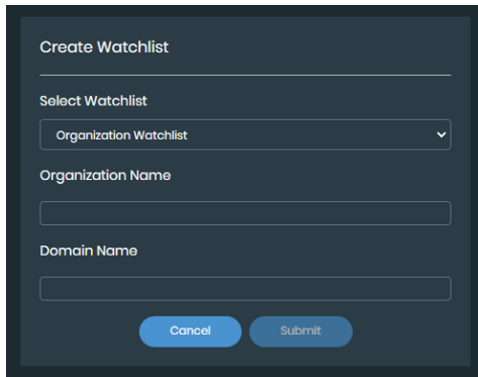
Managing My Watchlist

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 183](#).

To create a new asset to manage:

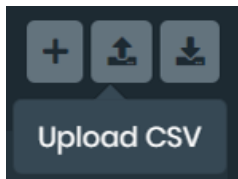
1. Go to *Adversary Centric Intelligence > Ransomware Intelligence*.
2. In the *Watchlist* section, click *Manage*. The *My Watchlist* page is displayed.
3. Click + icon. The *Create Watchlist* dialog is displayed.

A dark-themed dialog box titled "Create Watchlist". It contains a "Select Watchlist" dropdown menu with "Organization Watchlist" selected. Below the dropdown are two text input fields: "Organization Name" and "Domain Name". At the bottom are two buttons: "Cancel" and "Submit".

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:

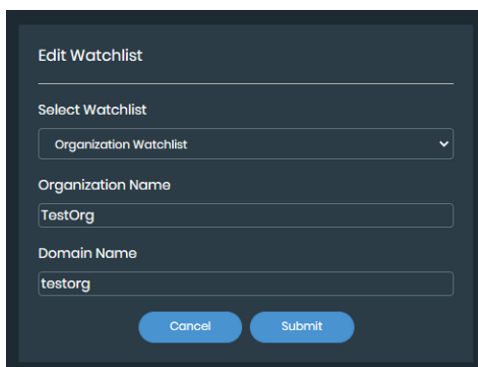
1. Go to *Adversary Centric Intelligence > Ransomware Intelligence*.
2. In the *Watchlist* section, click *Manage*. The *My Watchlist* page is displayed.
3. Click *Upload CSV* icon to upload the .csv files containing the vendors list. Browse and select the file. Click **Open**.



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:

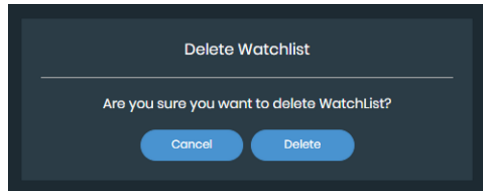
1. Go to *Adversary Centric Intelligence > Ransomware Intelligence*.
2. In the *Watchlist* section, click *Manage*. The *My Watchlist* page is displayed.
3. Find the asset you want to edit and click *Edit icon*. The Edit Watchlist dialog is displayed.

A dark-themed dialog box titled "Edit Watchlist". It contains a "Select Watchlist" dropdown menu with "Organization Watchlist" selected. Below the dropdown are two text input fields: "Organization Name" (containing "TestOrg") and "Domain Name" (containing "testorg"). At the bottom are two buttons: "Cancel" and "Submit".

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 187](#).
- View the security hygiene assessment of a vendor. See [Viewing the vendor risk assessment on page 188](#).

Adding a new vendor to the watchlist

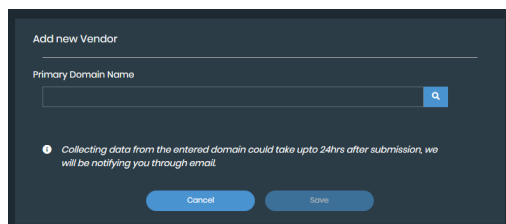
You can add new vendors to the watchlist to generate a risk assessment report and identify the overall estimate risk exposure rating. Vendors can be added to the watchlist using the primary domain. Once the domain name has been submitted, collecting data and generating the risk assessment can take up 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.

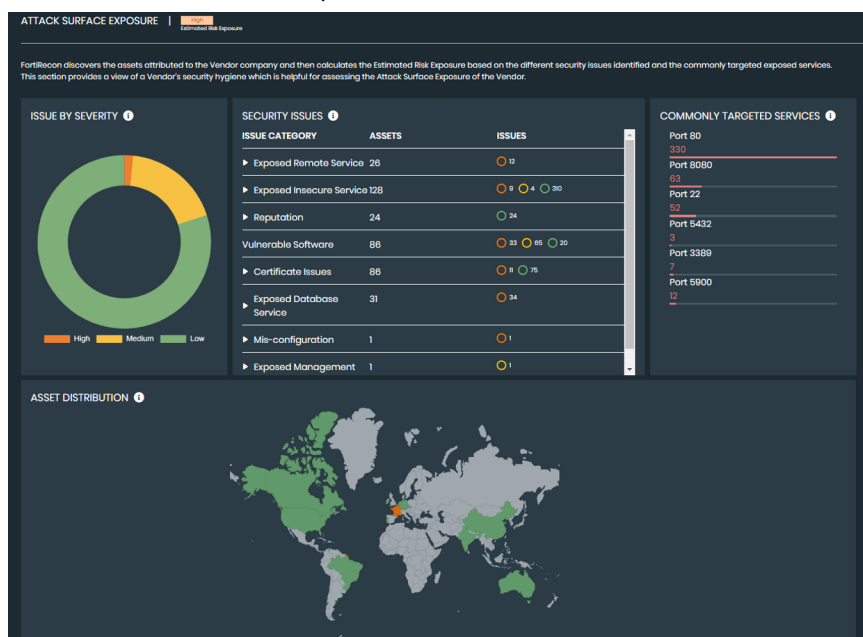
Removing a vendor from the watchlist

To remove a vendor from the watchlist, click *Remove* on its watchlist card.

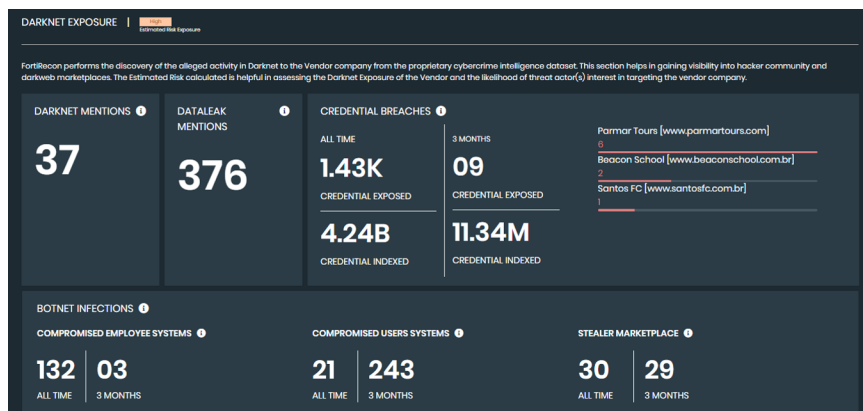
Viewing the vendor risk assessment

The vendor risk assessment organizes the generated vendors data into:

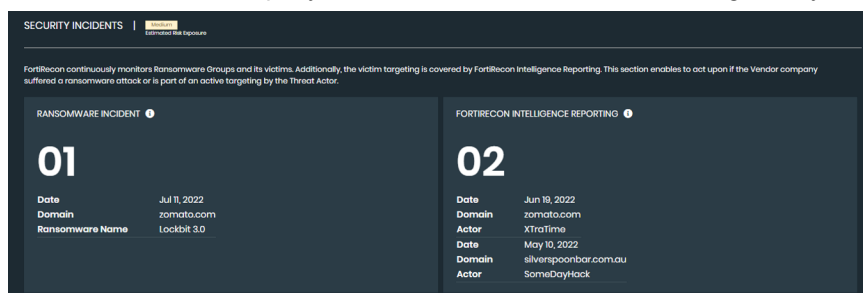
- **Attack Surface Exposure:** Provides an overview of the vendor company's assets and current security hygiene to assess the estimated risk exposure.



- **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.



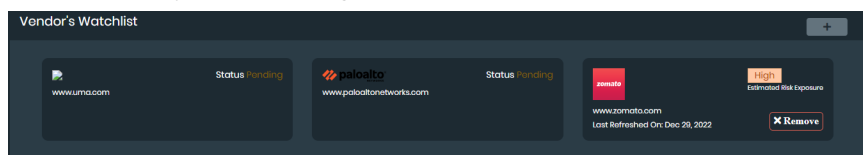
- **Security Incidents:** Provides an overview of ransomware incidences and intelligence reporting so that action can be taken if the vendor company suffers a ransomware attack or is targeted by a threat actor.



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*.

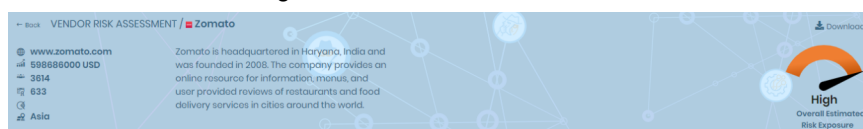


2. Select the vendor that you want to review. The *Vendor Risk Assessment* opens.



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: • <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*:

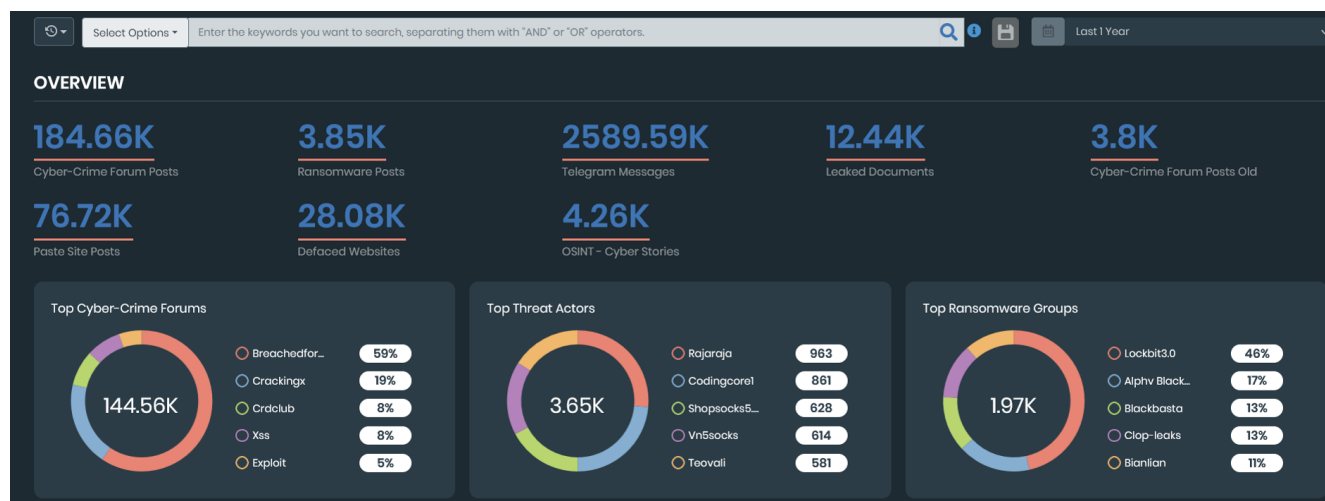
Ransomware Incident	The vendor name or domain appeared on the victim list by a ransomware group.
FortiRecon Intelligence Reporting	FortiRecon ACI reporting contains mention of the vendor's name or domain.

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 query 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.

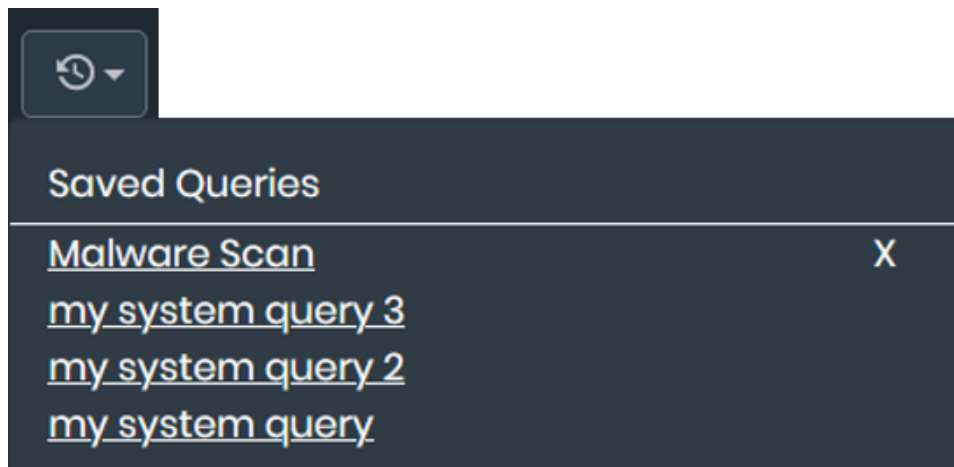
To save a user search query:

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. It has a dark theme. The title "Query Details" is at the top. Below it, there is a "Query Name" field with a red asterisk, containing the text "Malware Scan". Below that is a "Query String" field containing "malware OR NodeJS". Under 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 checkbox labeled "Notify me". 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.

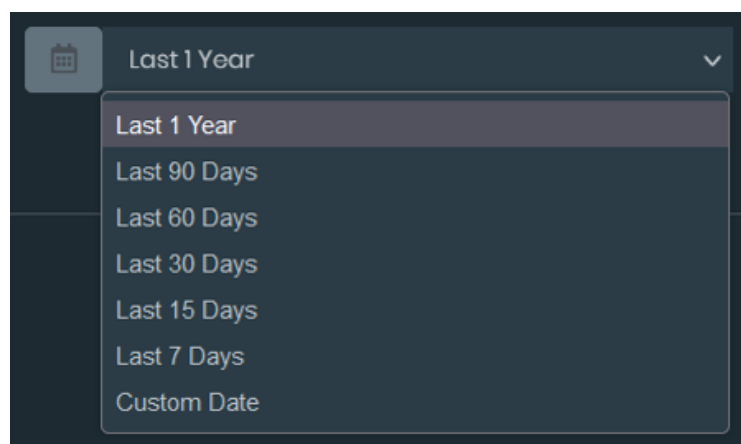
Operators and Modifier	Description
AND	Use this option to find both terms that exist in the text.
OR	Use this option to find at least one term that exists in the text.
NOT	Use this option to exclude that exists in the text.
*	Use this option to perform wildcard search.

Search Results

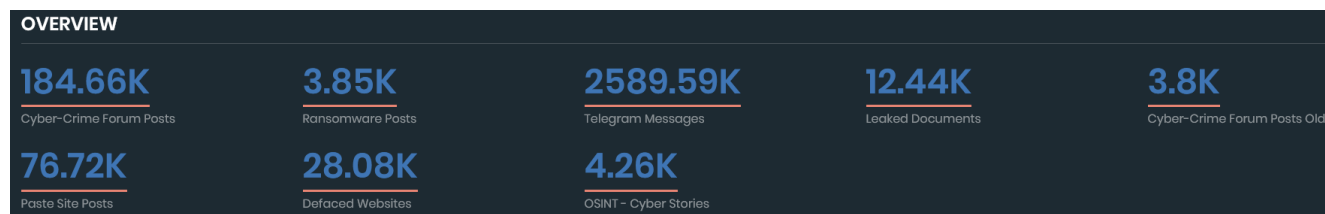
Once you run either a system or a custom search query, the filtered results are displayed. The default display period for the results is *1 year*. There are two sections available for viewing search results.

- [Overview](#)
- [Detailed Results](#)

To modify the result period, click date drop-down menu and choose the desired time period.



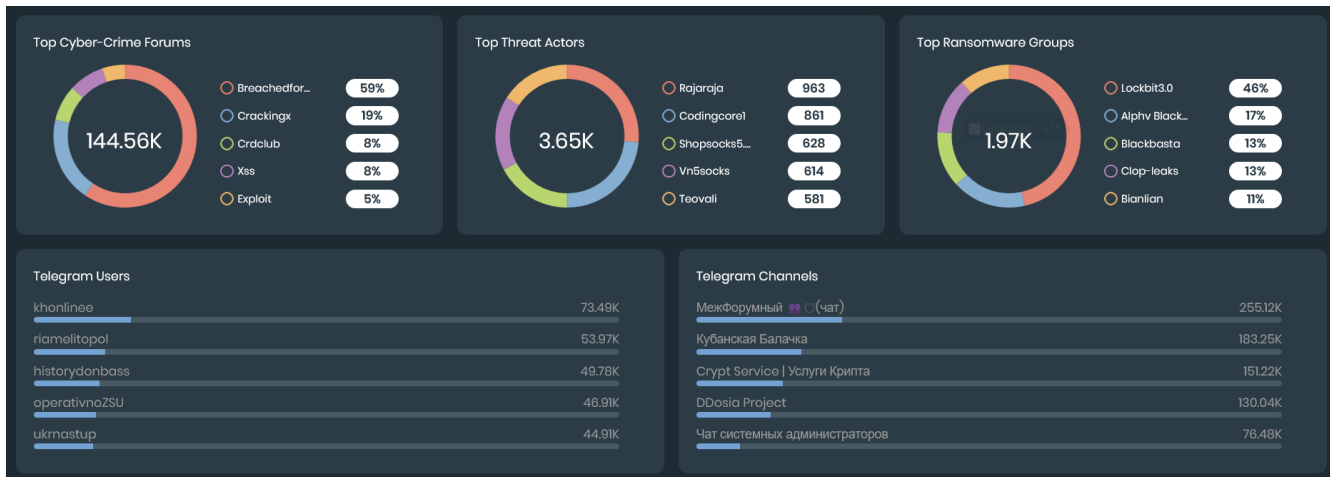
Overview



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					
Cyber-Crime Forum Posts (833) Ransomware Posts (7) Telegram Messages (2152K) Leaked Documents (3.43K) Cyber-Crime Forum Posts Old (8.9K) Paste Site Posts (77) Defaced Websites (22.63K)					
Collection Date	Posted Date	Forum Name	Actor Name	Post Title	Post Content
Jun 12, 2023	Jun 08, 2023	exploit	byte	ИЩУ КОЛЛЕГУ С NVNC\LOGS СТАНУ ОТРАБОТЧИКОМ!	Привет , умею работать почти с любым продуктом, ищу хороший материал отработываю м аксимально,имею очень хорошую репутацию на соседних бордах по запрос.
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 usage? it seems that bin is a very sensitive bin and ca.

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	• Collection Date • Posted Date • Forum Name

Intelligence Source	Fields Displayed
	• Actor Name • Posts Title • Post Content 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.
Ransomware Posts	• Posted Date • Updated Date • Ransomware • Name • Title • Victim Company • Victim Country • Victim Sector • Posts Content 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.
Telegram Messages	• Collection Date • Posted Date • Username • Channel • Message
Leaked Documents	• Collection Date • Posted Date • Leak Name • File Name • File Data Click <i>View Full Text</i> to view the full content.
Cyber-Crime Forum Posts Old	• Collection Date • Posted Date • Forum • Name • Actor Name • Posts Title • Posts Content 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.

Intelligence Source	Fields Displayed
Paste Site Posts	• Collection Date • Posted Date • Author Name • Title • Content Click <i>View Full Text</i> to view the full content. Click link icon to view the site posts in detail.
Defaced Websites	• Collection Date • Posted Date • Source • Notifier • Domain Click link icon to view the website.
OSINT - Cyber Stories	• Collection Date • Posted Date • Title • Content 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. Click link icon to read the full article.

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 198](#).
- Review the reputation of a domain. See [Reviewing domain reputation on page 199](#).
- Review a file hash. See [Reviewing a file hash on page 199](#).
- Review a CVE. See [Reviewing a CVE on page 199](#).

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.



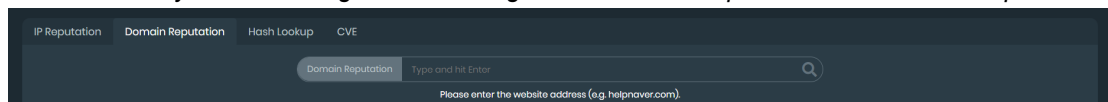
2. Type the IPv4 address, and press *Enter*.

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.



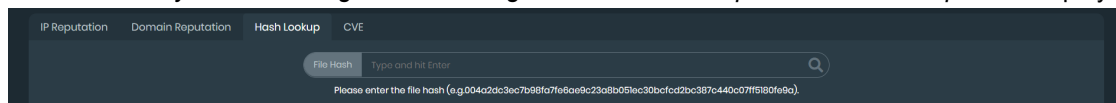
2. Type the domain name, and press *Enter*.

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.



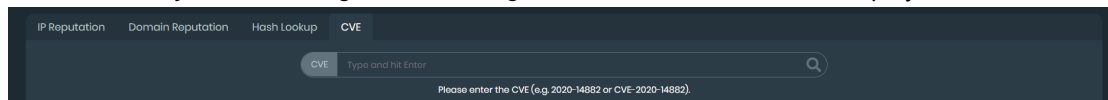
2. Type the file hash, and press *Enter*. The results are displayed.

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 200](#).

The *Profile Settings* module contains the following pages:

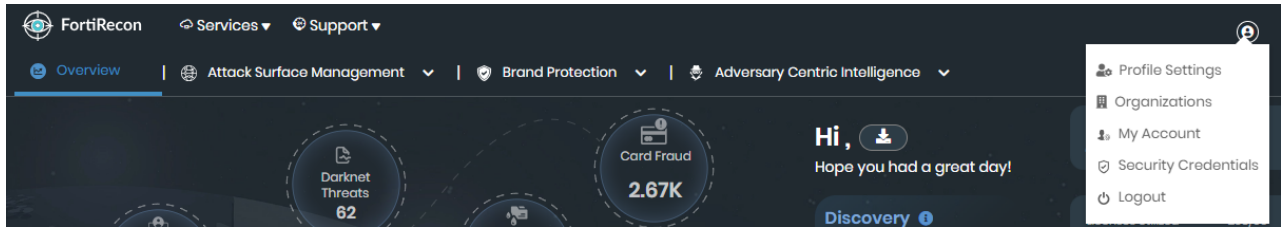
Profile	Displays information about your personal FortiRecon account. You can edit user idle timeout setting, view account details, upload your organization logo, and copy your API key for sharing. See Profile on page 201 .
Users	Displays account information for members of your organization. Administrators can add, edit, and delete user accounts. See Users on page 204
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 207 .
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 211 .
Integrations	Displays the webhook integrations with Microsoft Teams and Slack. You can create, edit, disable, and delete integrations. See Integrations on page 212 .
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 215 .
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 220 .

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 201](#).
- View information about your subscription, such as registered domains, target industries and geography, keywords, and your API key. See [Subscription Details on page 202](#).
- Modify your organization logo. See [Uploading Organization Logo](#).
- Copy your API key for sharing. See [Sharing the API key on page 204](#).

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 206](#).

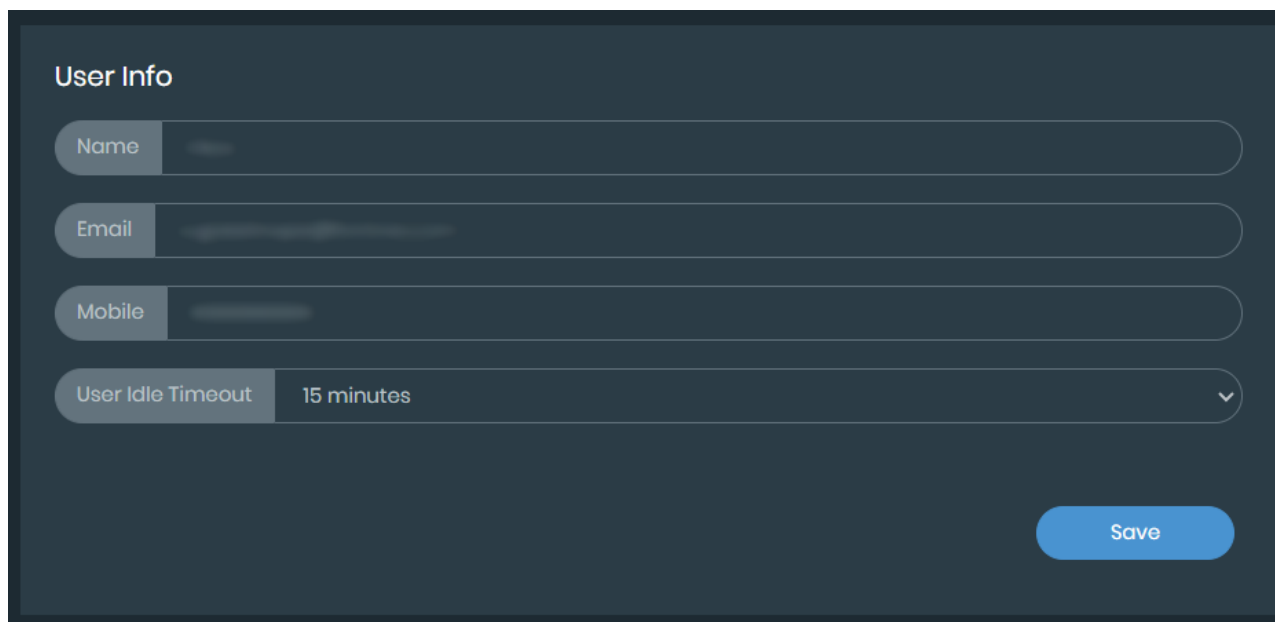
To edit personal user information:

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*.



User Info

Name

Email

Mobile

User Idle Timeout 15 minutes 

Save

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

Aug 15, 2024

105/365 days

Aug 15, 2025

Customer

Industry

Geography

Technology | Financial Services

Global

Organization ID

Organization Logo

API Key

Please visit the [link](#) for API documentation | [Download Python SDK](#)

License Details

Serial Number	Contract Number	Subscription Date	Status
		Aug 15, 2024 – Aug 15, 2025	Active i
		Aug 16, 2023 – Aug 15, 2024	Expired i

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.
- 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 204](#).
- Add new users. See [Adding users on page 205](#).
- Edit existing users. See [Editing users on page 206](#).
- Delete users. See [Deleting users on page 206](#).

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 207](#).

To add a user account:

1. Access *Profile Settings*, and click the *Users* page. The users are displayed.
2. Click the *Add User* button. The *Client Info* page is displayed.

3. On the *Client Info* page, 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: • User: gives the user access to the modules defined to their account. • Admin: 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.

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.

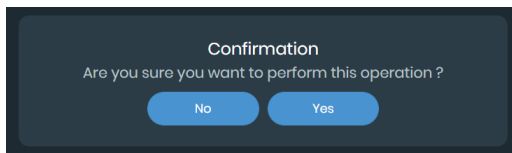
4. Select a new *User Template* from the dropdown, if needed. The *Main Modules*, *Sub Modules*, and *Access* are adjusted to the template's settings.
5. Click *Save*. The user information and access permissions are updated.

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 205](#)

From the *Profile Settings > Access Template* page, you can:

- View available access templates. See [Viewing access templates on page 207](#).
- Add a new access template. See [Adding a template on page 207](#).
- Edit an existing access template. See [Editing a template on page 208](#).

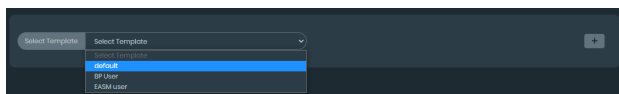
Viewing access templates

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
Brand Protection	Dashboard and Alerts
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.

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

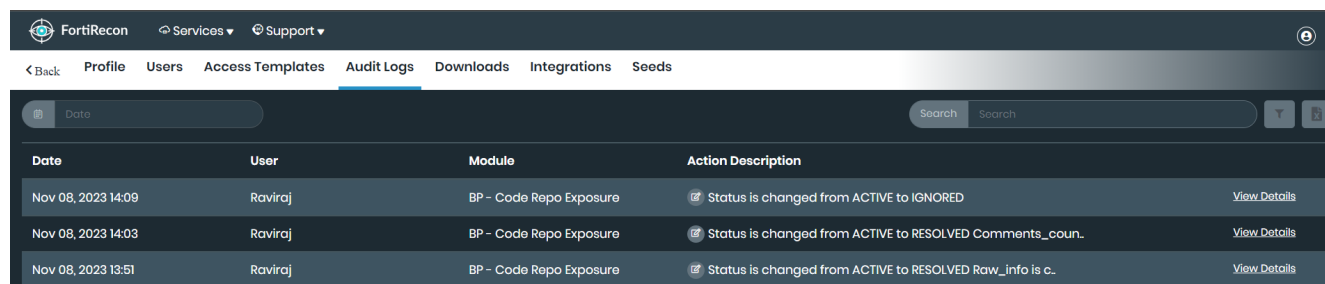
The Audit Logs page provides a comprehensive overview of all activities performed within FortiRecon, allowing you to track user actions, monitor changes made to your organization's data, and maintain compliance with security regulations.

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.



Date	User	Module	Action Description
Nov 08, 2023 14:09	Raviraj	BP - Code Repo Exposure	Status is changed from ACTIVE to IGNORED View Details
Nov 08, 2023 14:03	Raviraj	BP - Code Repo Exposure	Status is changed from ACTIVE to RESOLVED Comments_coun... View Details
Nov 08, 2023 13:51	Raviraj	BP - Code Repo Exposure	Status is changed from ACTIVE to RESOLVED Raw_info is c... View Details

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*

More Information

Module

BP

Sub Module

Code Repo Exposure

Action Description

UPDATE : Status is changed from ACTIVE to IGNORED

Old Values

Status

Active

New Values

Status

Ignored

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:

- Go to *Profile Settings > Audit Logs*.
 - Filter audit logs by a date range:
 - Click *Date* field. Two calendars are displayed.
 - In the left calendar, select a month, year, and day to specify the start date of the range.
 - Select a month, year, and day to specify the end date of the range.
 - Only audit logs from the date range are displayed.
 - Click the *Date* field, and click *X* to remove the date range filter.
- Search for keywords:
 - In the *Type and hit Enter to Search* box, type a keyword, and press *Enter*.
 - The audit logs are filtered to display only logs with the keyword.
 - Click the *X* beside the keyword to remove the filter.
- 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.

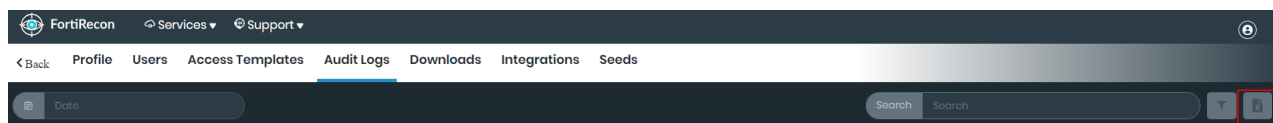
Exporting audit logs

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:

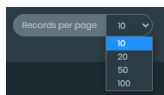
- View all downloads from the past 30 days. See [Viewing downloads on page 211](#).
- Retrieve downloads from the past 30 days. See [Retrieving downloads on page 212](#).
- Delete downloads. See [Deleting downloads on page 212](#).

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.



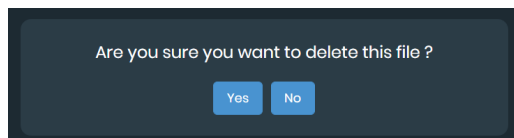
If a file is not finished downloading, an update message is displayed when you hover your mouse over the file. You cannot click the file until it is finished downloading.

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:

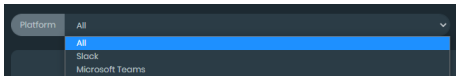
- View the details of existing integrations. See [Viewing integration details on page 212](#).
- Create new integrations. See [Adding integrations on page 213](#).
- Edit existing integrations. See [Editing integrations on page 214](#).
- Disable integrations. See [Disabling integrations on page 214](#).
- Delete integrations. See [Deleting and disabling integrations on page 215](#).

Viewing integration details

You can view the details of an integration in the *Integrations* page.

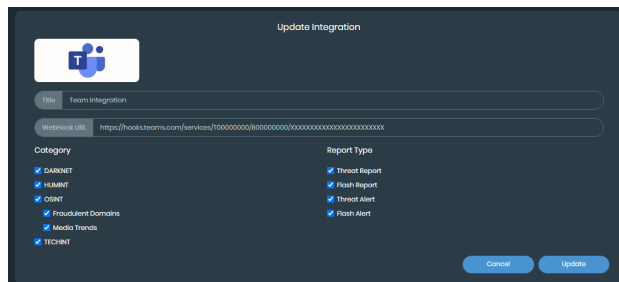
To view the details of an integration:

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

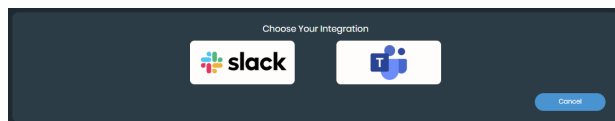
You can add multiple webhook integrations to your account in FortiRecon.



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.

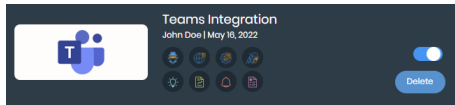
3. Edit the *Title* and *WebHook URL* text boxes, as needed.
4. Select the *Category* and *Report Type* fields that you want to include in the integration.
5. Clear any fields that you want to exclude from the integration.
6. Click **Update**. The webhook integration is updated.

Disabling integrations

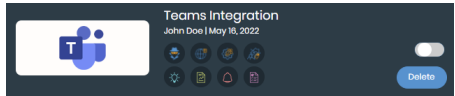
You can temporarily disable unused integrations, and then enable them again in the future. The integration toggle allows you to enable and disable an integration as needed.

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.



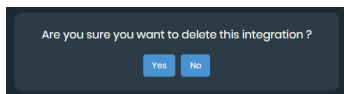
3. Select the toggle again to enable the integration.

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 158](#).



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 218](#).
- Edit existing card BINs. See [Editing a card BIN on page 219](#).
- Delete existing card BINs. See [Deleting a card BIN on page 219](#).

Business Names Domains ASN IP Prefix IP Address Sub Domain Card BIN Owned Mobile Applications Social Media				
* Please list down all BIN numbers used to issue Credit / Debit / Gift cards to their customers				
Search Type and hit Enter to Search				
Card BIN	Created Date	Updated Date	Actions	
12345678901234567890	Aug 02, 2022	Aug 02, 2022	✎	
12345678901234567890	Aug 02, 2022	Aug 02, 2022	✎	

Adding a card BIN

You can add new BINs in the *Card BIN* tab, as needed. BINs must be at least six 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.

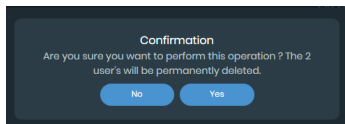
To delete a single card BIN:

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:

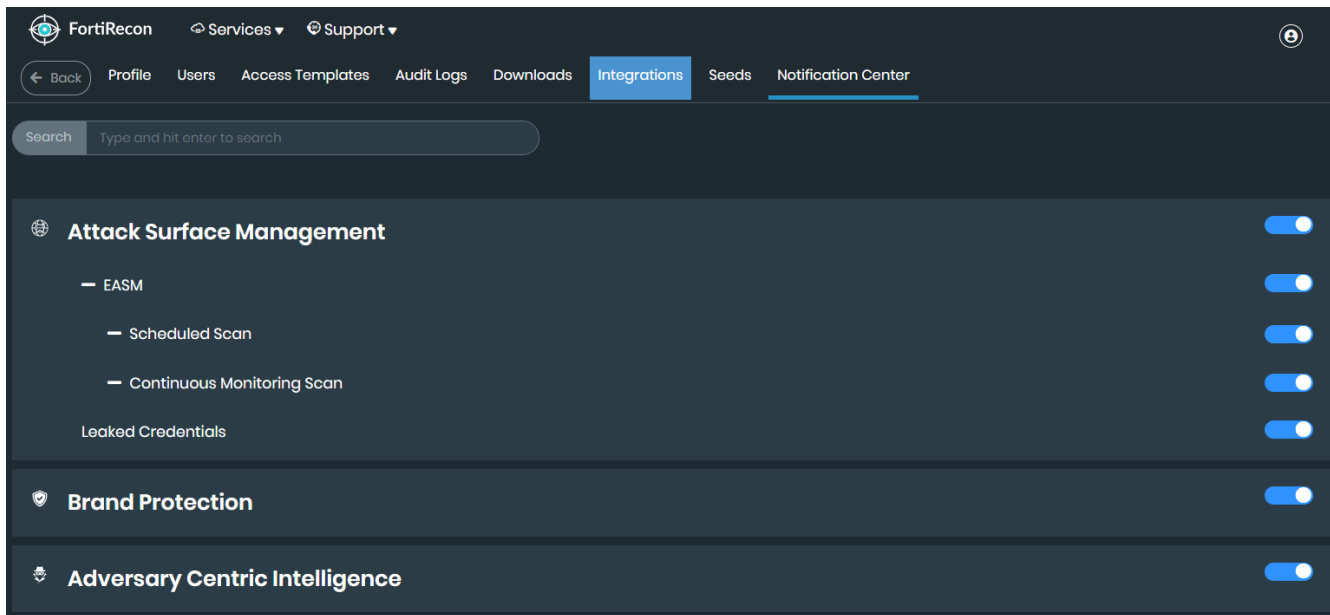
- View and edit your current notification settings. See [Viewing and managing notification settings](#).
- Customize notifications in Adversary Centric Intelligence module. See [Customizing notifications](#).
- Modify notification settings for other users as an Administrator. See [Managing notifications 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, and Time</i> .
	Stealer Infections > Compromised System (Leaked)	Select <i>Employee</i> and <i>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**.

The screenshot displays the 'Profile Settings' interface. On the left, a sidebar lists modules: 'Attack Surface Management', 'Brand Protection', and 'Adversary Centric Intelligence'. Each module has a toggle switch to its right. Under 'Adversary Centric Intelligence', there are sub-items: 'Reports', 'High Relevance', 'Custom Alert', and 'Daily Digest', each with its own toggle and a 'Configure' button. On the right, the 'Custom Email Alerts' section is active, showing a 'Save' button and four input fields for 'Target Industry', 'Motivation & Tags', 'Actors', and 'Target Geography'.

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.

The screenshot shows a horizontal view selector with three options: 'My View', 'User View', and 'Select User'. 'User View' is currently selected and highlighted in blue. A dropdown arrow is visible on the right side of the 'Select User' option.

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

License Information

Serial Number

Copy to clipboard

1

License timeline

Upcoming

Aug 15,2024 - Aug 15,2025

Entitlements

☒ EASM

☐ IASM

☒ BP

☒ ACI

Contract number

Copy to clipboard

Active

Aug 16,2023 - Aug 15,2024

Entitlements

☒ EASM

☐ IASM

☒ BP

☒ ACI

Contract number

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