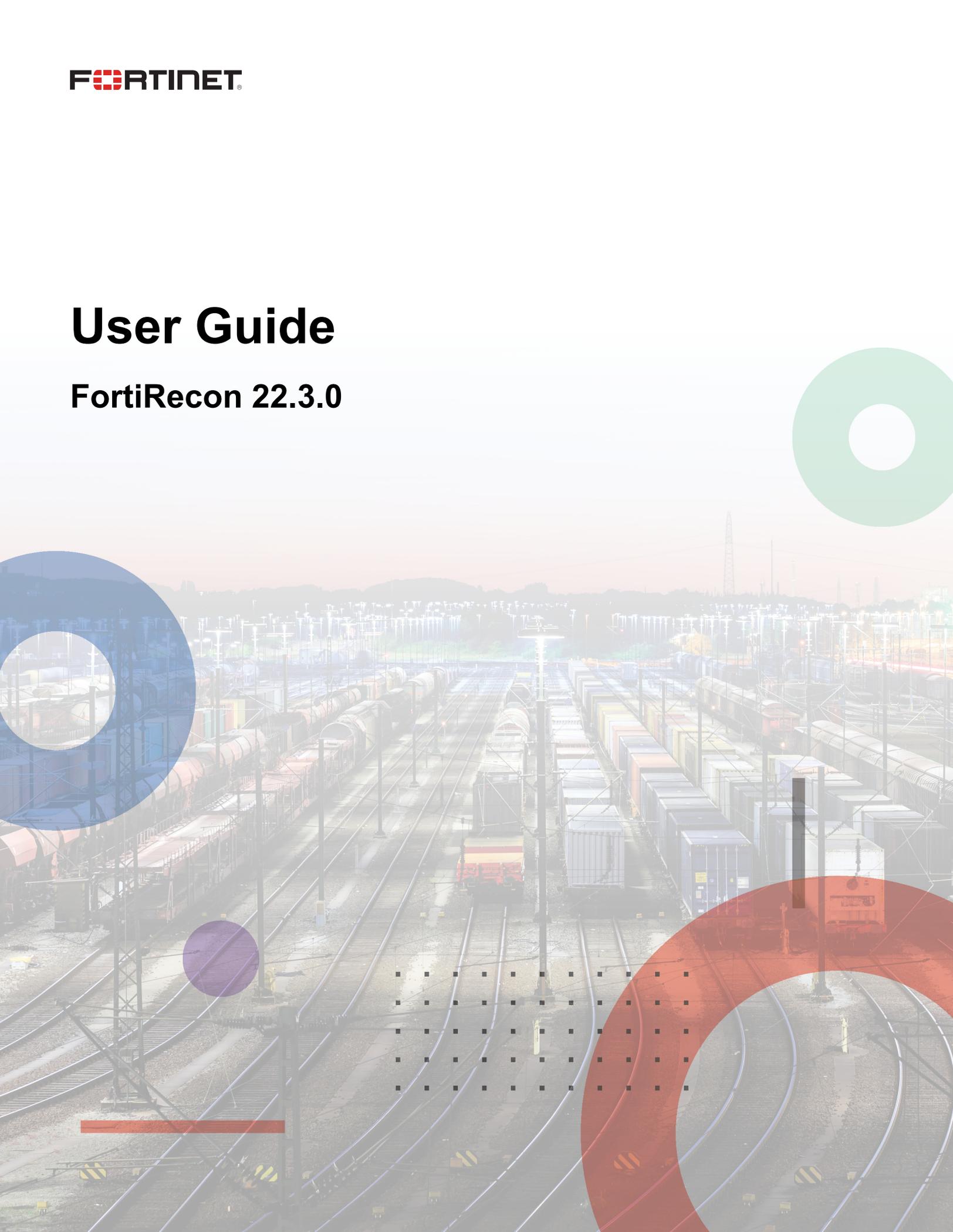


User Guide

FortiRecon 22.3.0



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January 18, 2023

FortiRecon 22.3.0 User Guide

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Change Log

Date	Change Description
2022-09-30	Initial release.
2022-10-03	Added Vulnerability Intelligence on page 68.
2023-01-18	Updated Adding a comment to a security issue on page 25.

Introduction

FortiRecon is a Digital Risk Protection (DRP) service that operates alongside existing security solutions to provide you with the visibility that an adversary can have of your infrastructure. This early warning of any malicious activity targeted at your organization enables swift detection and mitigation. Operating purely from outside the organizational boundary, the service maps an organization's digital footprint and monitors 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 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:

EASM	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 14 .
Brand Protection	The Brand Protection 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 29 .
ACI	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 49 .
Profile Settings	The Profile Settings module allows you to personalize your FortiRecon account and provide information on your organization. See Profile settings on page 75 .

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 9](#) 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.
-

Licensing

FortiRecon requires a license. You can choose to purchase a license for one, two, or all three of the following FortiRecon modules:

- External Attack Surface Management (EASM)
- 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.

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

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 9](#).
- Subscribe to FortiRecon and start the service. See [Subscribing to FortiRecon on page 10](#).

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

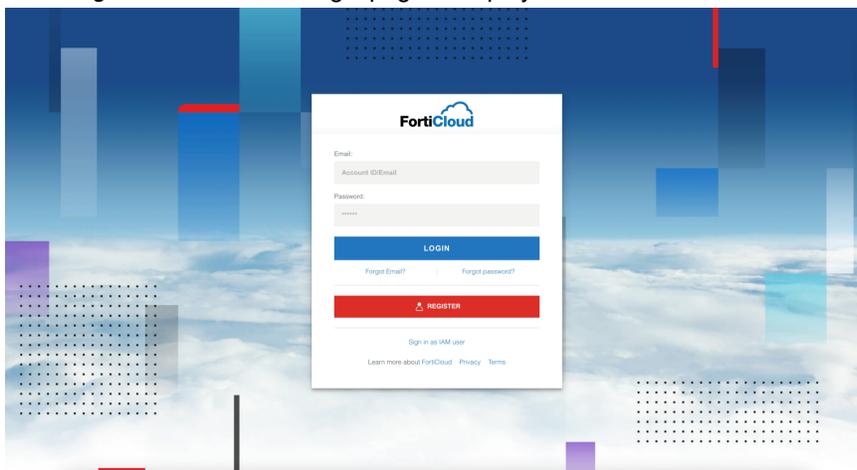
This section describes how to subscribe to FortiRecon and start the service. Before you can subscribe to FortiRecon, you must register the license. See [Registering the FortiRecon license on page 9](#).

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.
After you log in to FortiRecon for the first time, the *FortiRecon Provisioning Form* is displayed.

4. Enter your contact information in the *Technical Implementation Lead* fields.



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.

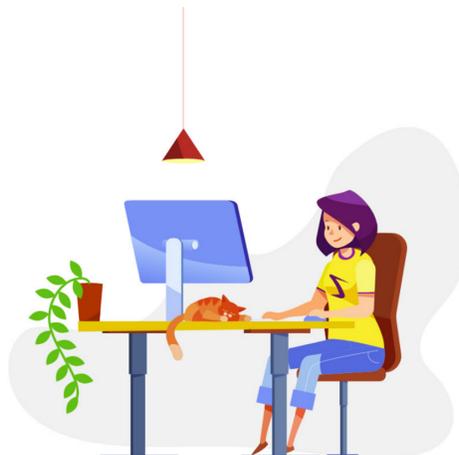
5. Enter the email addresses of members of your organization in the *Other Authorized Contacts* and *Service Notification Contacts* fields.
6. Enter the contact information of the billing contact in the *Billing Contact* fields.
7. Select the *Company Information* and *External Attack Surface Management* dropdowns. New information fields are displayed.

8. Enter your organization's information in the *Company Information* fields.
9. Enter your organization's assets IP address and domain information in the *External Attack Surface Management* fields.
10. 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



11. Wait for the FortiRecon team to analyze your assets and populate the FortiRecon portal for you.

-
12. When you receive an email from the FortiRecon team, you can access the FortiRecon portal and review the analysis. See [Accessing FortiRecon portal on page 13](#).

Accessing FortiRecon portal

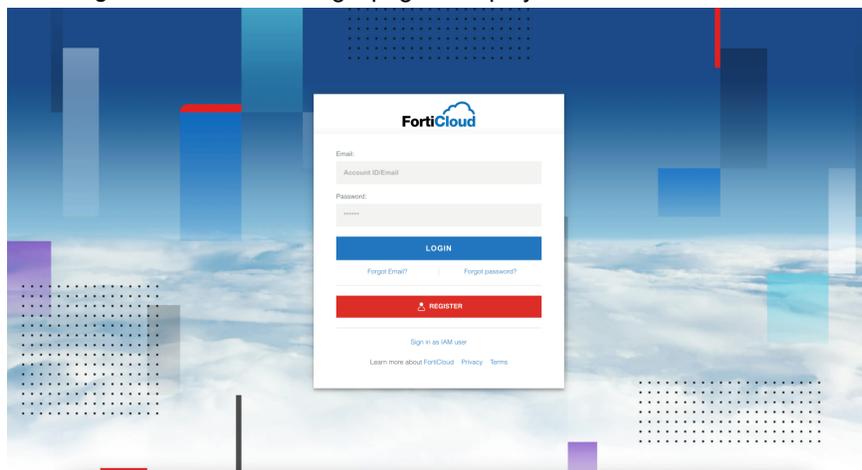
After you have subscribed to FortiRecon and received an email from the FortiRecon team, you are ready to access the FortiRecon portal.

To access FortiRecon:

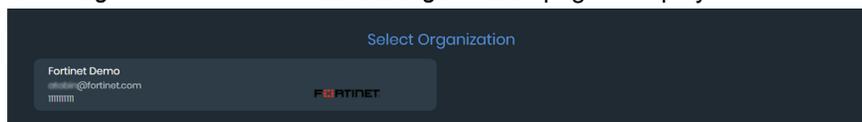
1. Go to FortiRecon at <https://fortirecon.forticloud.com>.



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



3. Enter your FortiCloud credentials.
4. Click *Login*. The FortiRecon *Select Organization* page is displayed.



5. Select the organization you want.
The *EASM > Dashboard* page is displayed. See [EASM on page 14](#).

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 on a schedule and displays the results.

The *EASM* module displays scan results for your organization on the following tabs :

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 Dashboard on page 14 .
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 Asset Discovery on page 17 .
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 Security Issues on page 21 .
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 26 .

Dashboard

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

- View a summary of your discovered digital assets. See [Viewing discovered assets summary on page 14](#).
- View a summary of potential security issues related to your organization. See [Viewing security issues summary on page 15](#).
- 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 16](#).
- Download the dashboard content to your hard drive. See [Downloading the EASM dashboard details on page 17](#).

Viewing discovered assets summary

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

- Overall Entities
- Exposed Services
- Technologies Discovered

To view discovered assets summary:

1. Go to the *EASM > Dashboard* page. The list of assets discovered by FortiRecon is displayed in the *Discovery* section.



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

Overall Entities

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.

Technologies Discovered

Displays all the technologies discovered by FortiRecon.

3. Click the *Overall Entities* widget or the *Exposed Services* widget to display more details on the *Asset Discovery* page. See [Asset Discovery on page 17](#).

Viewing security issues summary

The *EASM > 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 *EASM > Dashboard* page, 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.
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 [Security Issues](#) on page 21.

Viewing a map of assets

The *EASM > 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 *EASM > Dashboard* page, and scroll to the *Asset Distribution* section. A global map of your discovered assets is displayed.



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

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

- Click a country or issue in the table to display more details on the *Security Issues* page. See [Security Issues on page 21](#).

Downloading the EASM dashboard details

The EASM dashboard details can be downloaded to your hard drive. The process downloads a zip file named *EASM Dashboard.zip* 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:

- Go to *EASM > Dashboard*, and click *Download*.
- Retrieve the download from *Profile Settings*. See [Retrieving downloads on page 85](#).

Asset Discovery

The *EASM > Asset Discovery* 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 18](#).
- Mark discovered assets as false positives to remove them from the next scheduled FortiRecon scan. See [Marking assets as false positives on page 19](#).
- Manually add assets to FortiRecon to include them in the next scheduled scan. See [Adding assets manually on page 20](#).
- Manually remove assets from the next scheduled FortiRecon scan. See [Removing assets manually on page 20](#).

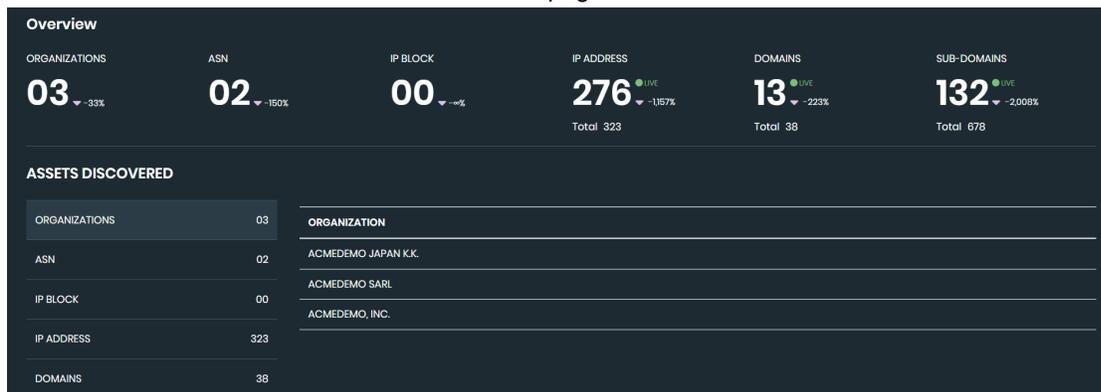
Viewing asset details

The *EASM > Asset Discovery* 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 *EASM > Asset Discovery*. 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.

2. 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.

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

Sub-domain	IP	Open Port	Tech Stack	Mark as False Positive
k8s-dashboard-marketplace-dev.analytics.acmedemoguardcloud.com	35.82.175.1	02	-	<input type="checkbox"/>
fossdptfos-demosds.demo.acmedemoguardcloud.com	-	-	-	<input type="checkbox"/>
portal-clusterf-test.dev.acmedemoguardcloud.com	-	-	-	<input type="checkbox"/>

4. 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 19](#).

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:

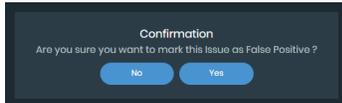
- ASN
- IP blocks
- IP addresses
- Domains
- Sub-domains

To mark false positives:

1. Go to *EASM > Asset Discovery*. 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.

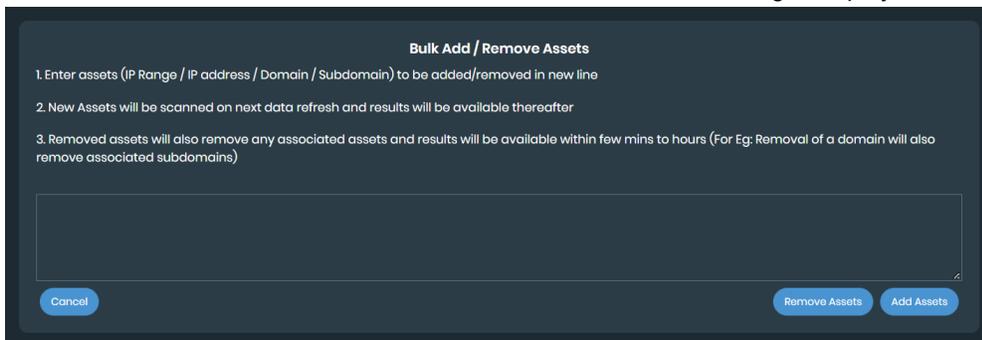
Adding assets manually

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 *EASM > Asset Discovery*. 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*.

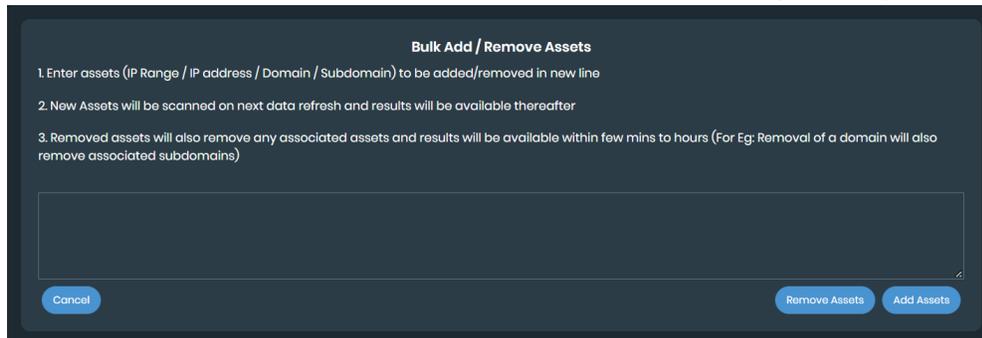
Removing assets manually

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 *EASM > Asset Discovery*. 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*.

Security Issues

The *EASM > Security Issues* 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 21](#).
- Apply filters to the list of security issues to hone in on specific issues. See [Filtering security issues on page 23](#).
- 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 24](#).
- Add a comment to explain status changes made to security issues. See [Adding a comment to a security issue on page 25](#).

Viewing security issues

The *EASM > 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.

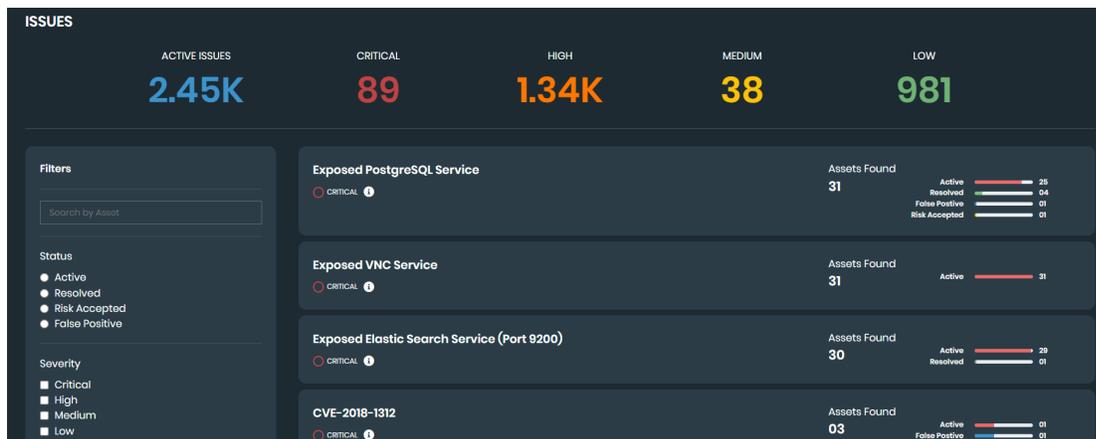
You can use search and filters to change the list of reports that are displayed, and then click each report to display its details.

To view security issues:

1. Go to *EASM > Security Issues*. The 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

PostgreSQL is a database service which is highly targeted by attackers. Organization(s) should not expose this service to the public internet unless there is a business requirement. However, if there is a business requirement then one of the following listed alternatives could be considered:

- Organization(s) should find ways to restrict the IP Address which are allowed to access this service.
- Organization(s) should allow this service from trusted IPsec or SSL VPN to the appropriate users/groups who need to get access within the organization.

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

Issues > Exposed PostgreSQL Service Severity: CRITICAL Assets Found: 31

[← Back](#)

Multiselect

■ 154.52.25.13 🔍 ↻ 🗑

Issue Status: active Port: 5432

Modified By: Bhumit Mali

■ de-unmetered-com.acme8.com 🔍 ↻ 🗑

Issue Status: false_positive Port: 5432

Modified By: Yashad Deshpande

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



- b. Click the X in the top-right corner to close the window.
6. 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 24 .

7. Click the *Back* button.

Filtering security issues

By default, the *EASM > 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 *EASM > Security Issues*. The list of security issues is displayed.
2. Select one or more filters, and click *Search*:

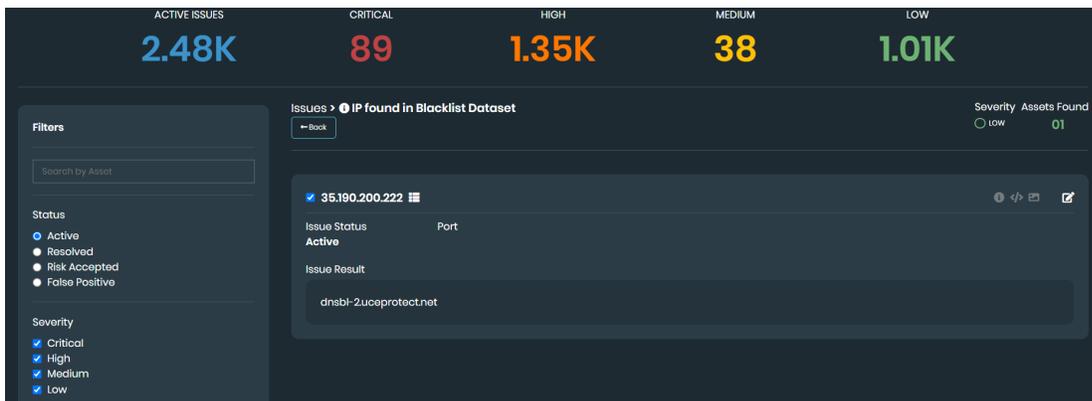
Filter	Options
Status	Select one of the following statuses: <ul style="list-style-type: none"> • Active • Resolved • Risk accepted • False positive
Severity	Select one or more of the following severity statuses: <ul style="list-style-type: none"> • Critical • High • Medium • Low

Filter	Options
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.

- (Optional) In the *Filters* list, toggle on *False Positive*. The list displays only issues marked with a status of *False Positive*.
- Click an issue title to display its details.

In the following example, the details for the *IP found in blacklist dataset* issue are 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.
- 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 *EASM > 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.
3. Click an issue title to display its details.

In the following example, the *IP found in blacklist dataset* security issue is displayed:

The screenshot displays the EASM Security Issues interface. At the top, there are five summary cards for issue counts: ACTIVE ISSUES (2.48K), CRITICAL (89), HIGH (1.35K), MEDIUM (38), and LOW (1.01K). Below this is a filters sidebar on the left with sections for Status (Active, Resolved, Risk Accepted, False Positive) and Severity (Critical, High, Medium, Low). The main content area shows the details for an issue titled 'IP found in Blacklist Dataset' with a severity of 'LOW' and '01' assets found. The issue ID is '35.190.200.222'. The issue status is 'Active' and the port is 'Port'. The issue result is 'dnshb-2.ucoprotect.net'. There are icons for edit, share, and refresh in the top right of the issue details.

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 *EASM > 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 *EASM > 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*.

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 *EASM > Leaked Credentials* page, you can:

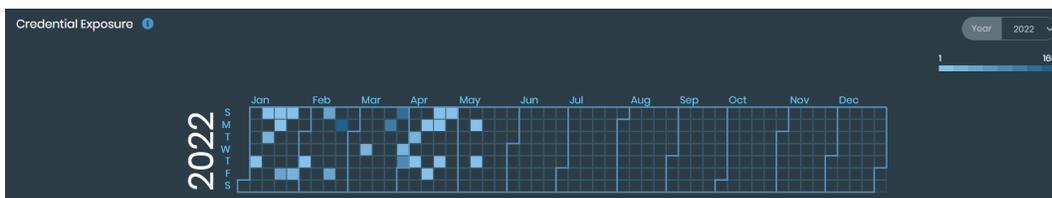
- View leaked credentials by year. See [Viewing leaked credentials by year on page 26](#).
- View breached datasets. See [Viewing breached datasets on page 26](#).
- View leaked credential details. See [Viewing leaked credential details on page 27](#).
- Export a list of leaked accounts. See [Exporting leaked accounts on page 28](#).

Viewing leaked credentials by year

The *EASM > Leaked Credentials* page provides a calendar year of all breaches. You can change the year.

To view leaked credentials by year:

1. Go to *EASM > 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* tab. See [Viewing leaked credential details on page 27](#).

Viewing breached datasets

On the *EASM > 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 *EASM > Leaked Credentials*. The *Breach Dataset* tab is displayed with the *Relevant* tab selected. The following columns of information are available:

Breach Name	Displays the name of the breach. A red <i>Includes passwords</i> is displayed when the breach includes passwords.
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. Click a breach to display more information about it.
3. On the *Breached Dataset* 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.
4. In the *Search* box, type a term, and press *Enter*.
In the *Search* box, clear the term to remove it.
5. Click the *Other* tab. The most recent breaches added by FortiRecon are displayed.
On the *Other* tab, you can filter the data by date and use the *Search* box.

Viewing leaked credential details

On the *EASM > 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 *EASM > Leaked Credentials*, and click *Leaked Credentials*.
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. In the *Domain* list, select one or more domains.
In the *Domain* box, delete the selected domain names to remove the filter.

4. Click a domain name to display more details.
5. Click the *Other* tab.
6. In the *Search* box, type a term, and press *Enter*.
In the *Search* box, delete the term to remove it.

Exporting leaked accounts

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

To export leaked accounts:

1. Go to *EASM > Leaked Credentials*, and click *Leaked Credentials*.
2. Click the *Export Leaked Accounts*. A file named *Leaked Accounts.xlsx* is exported to your computer.

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 tabs:

Dashboard	Displays a summary of typo-squatting domains, flash alerts and reports, rogue apps, phishing campaigns, and takedown requests. See Dashboard on page 29 .
Alerts	Displays a list of flash reports. You can review reports for more details, download threat intelligence reports and observable Microsoft Excel files, and share links. See Alerts on page 32 .
Domains Typo-Squatting	Displays all discovered domains that may be impersonating your organization's domain. You can filter domains, initiate domain takedown or the suspension of monitoring, and export a Microsoft Excel file containing domain details. See Domains Typo-squatting on page 37 .
Phishing	Displays campaign information and phished users. You can export phishing details and create digital watermarks for your assets. See Phishing on page 40 .
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 44 .
Take Down	Displays a list of takedown request tickets and their current status. See Take Down on page 47 .

Dashboard

The *Brand Protection > Dashboard* page provides a history of flash alerts and flash reports about the latest threats that are specific to your organization. From the *Brand Protection > Dashboard* page, you can:

- View a summary of domains that are potentially typo-squatting a domain of your organization. See [Viewing typo-squatting domains summary on page 30](#).
- View a summary of the most recent flash reports and the total number of alerts. See [Viewing total alerts summary on page 30](#).
- View a summary of the distribution of *Official*, *Unofficial*, and *Rogue* apps that may be impersonating your organization. See [Viewing rogue apps summary on page 31](#).
- View a summary the current status of takedown requests. See [Viewing takedown status summary on page 31](#).
- View a summary of current phishing campaigns against your organization. See [Viewing phishing summary on page 32](#).

Viewing typo-squatting domains summary

The *Brand Protection > Dashboard* page displays a summary of typo-squatting domains related to your organization in the *Typo Squatted Domains* section.

To view typo-squatting domains summary:

1. Go to *Brand Protection > Dashboard* page and scroll to *Typo Squatted Domains*. The typo-squatting domains discovered by FortiRecon are displayed.



2. View the distribution of all domains identified:
 - Review the total number of domains identified in *Total Domain*.
 - Hover your mouse over the *Total Domain* chart to see the distribution of *Low*, *Medium*, and *High* risk domains.
3. View the current status of the domains related to your organization:
 - *Offline*: Lists the total number of identified domains that are offline.
 - *Online*: Lists the total number of identified domains that are online.
 - *Non-Functional*: Lists the number of domains that are currently not functioning online.
4. View the important distribution of typo-squatting domains identified in *Highly Suspicious* and *Parked*.
5. View the domains impersonating your organization in *Brand Abuse*.

Viewing total alerts summary

The *Brand Protection > Dashboard* page displays a summary of the total number of alerts and the most recent flash reports.

To view the total alerts summary:

1. Go to *Brand Protection > Dashboard* page and scroll to *Total Alerts*. The most recent, important alerts created by FortiRecon are displayed.



2. Select the number of *Alerts* to view more information.

Viewing rogue apps summary

The *Brand Protection > Dashboard* page displays a summary of rogue mobile apps that may be impersonating your organization.

Select the *Apps* value to see more information in the *Rogue Mobile Apps* tab.

To view the rogue apps summary:

1. Go to *Brand Protection > Dashboard* page and scroll to *Rogue Apps*. The total rogue mobile applications detected by FortiRecon are displayed.



2. Review the distribution of app classifications:
 - Hover your mouse over the *Apps* chart to see the distribution of *Official*, *Unofficial*, and *Rogue* apps.
 - View the total apps identified for each classification in *Official*, *Unofficial*, and *Rogue*.
3. Select *Apps* to see more information on rogue mobile applications.

Viewing takedown status summary

The *Brand Protection > Dashboard* page displays a summary of the current status of takedown requests made and the associated tracking *Ticket*.

To view the takedown status summary:

1. Go to *Brand Protection > Dashboard* page and scroll to *Take Down Status*. The status of takedown requests are displayed.

Request Name	Date	Ticket
RogueApps Camera ZOOM FX Premium (slide.cameraZoom)_	May 09, 2022	FCL9BWJD
Typosquatting outlookoo.site	May 09, 2022	80TZKB28
Typosquatting office-portal.com	Apr 28, 2022	7GF8TZAB
Phishing http://acmebankdemo.com/#/	Apr 28, 2022	4HPGQPFM

2. View more information on takedown requests:
 - Select the *Credits Used* to see all takedown requests.
 - Select the *Ticket* number of a request to see information on that request.

Viewing phishing summary

The *Brand Protection > Dashboard* page displays a summary of current phishing campaigns detected against your organization, including potentially compromised employee and user accounts. Select a campaign to see more information in the *Phishing* tab.

To view the phishing summary:

1. Go to *Brand Protection > Dashboard* page and scroll to *Phishing*. Current phishing campaigns are displayed.



2. View more information on a campaign:
 - Select the name of a campaign for more information on the phishing campaign.
 - Select *Phished Users* to see more information on potentially compromised employees and customers.

Alerts

FortiRecon lists flash reports on the *Brand Protection > Alerts* page. Flash reports are generated specifically for your organization based on flash alerts. Flash alerts are reported as soon as they are discovered, but contain limited information. Flash reports are developed following flash alerts to provide more detailed information on the threat discovered by FortiRecon. The threat is also assessed and recommendations are made in the flash report.

From the *Alerts* page, you can:

- View flash reports. See [Viewing flash reports on page 32](#).
- Filter through all flash reports available. See [Filtering reports on page 33](#).
- Download flash reports as threat intelligence reports in PDF or as an observable Microsoft Excel file. See [Downloading reports on page 33](#).
- Email and share links to flash reports with others. See [Sharing reports on page 35](#)
- Rate flash reports for relevance. See [Rating reports on page 36](#).
- Review reports and send queries to FortiRecon. See [Reviewing reports on page 36](#).

Viewing flash reports

The *Brand Protection > Alerts* tab displays all the flash reports available to you. By default all reports are displayed, starting with the latest report. Reports include in depth information, such as:

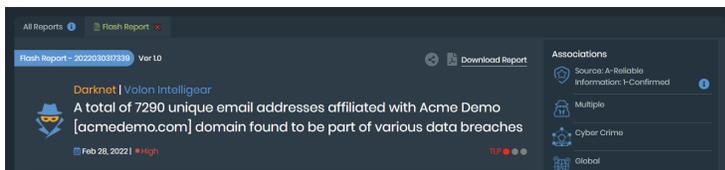
- Threat summary
- Threat detail
- Assessment



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 > Alerts*. 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* tab.

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

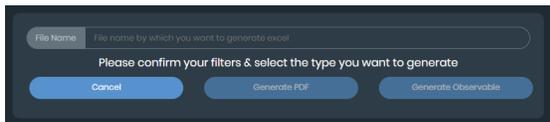
You can download reports from the *Alerts* tab as brand protection alerts in PDF or as an observable Microsoft Excel file. Brand protection alerts provide information from a flash report whereas observables outline any Indicators of Compromise (IOCs) highlighted in the flash report.

Downloaded reports can be set to include:

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

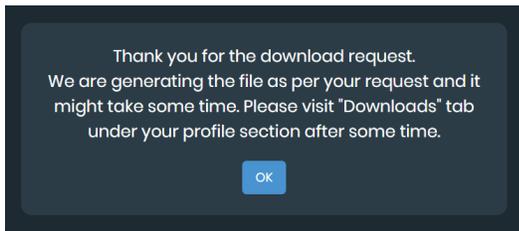
To download all reports available:

1. Go to *Brand Protection > Alerts*, 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.

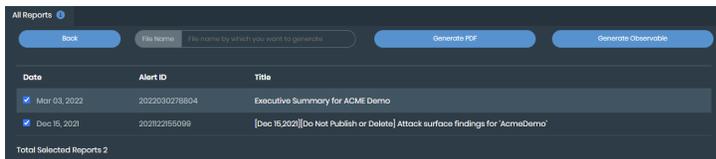
The following message is displayed:



4. Click *OK*.
5. Retrieve the report. See [Retrieving downloads on page 85](#).

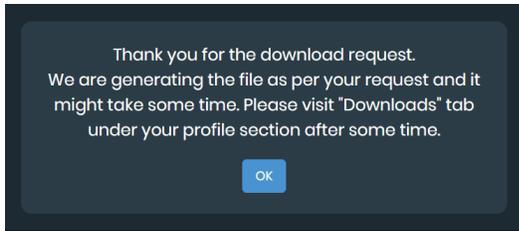
To download specific reports:

1. Go to *Brand Protection > Alerts*.
2. Click the filter icon and set the desired report filters. See [Filtering reports on page 33](#)
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.

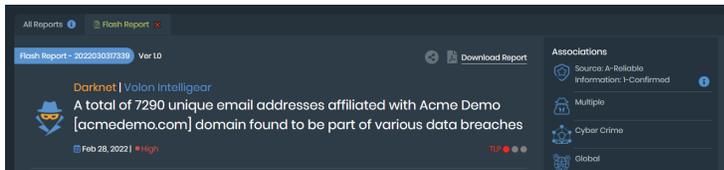
The following message is displayed:



7. Click *OK*.
8. Retrieve the report. See [Retrieving downloads on page 85](#).

To download a single report:

1. Go to *Brand Protection > Alerts* 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.



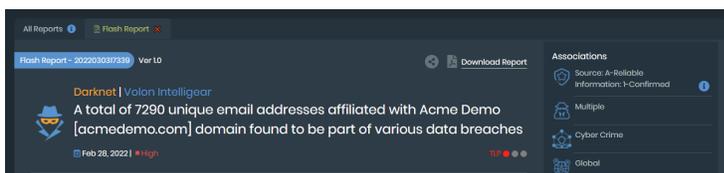
Only recipients who have a FortiRecon account can access reports through a shared link.

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 > Alerts* 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 > Alerts* 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 > Alerts* 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.

Domains Typo-squatting

FortiRecon continuously monitors for typo squatting attacks on the *Brand Protection > Domains Typo-squatting* page to detect when a threat actor registers domain names similar to the monitored organization and uses them for malicious activity.

FortiRecon continuously monitors a domain, unless you take an action against the domain. If the detected domain is determined to be fraudulent or malicious, you can initiate the takedown of the domain. If a domain is determined to belong to your organization or another legitimate company, you can stop monitoring it.

From the *Brand Protection > Domains Typo-squatting* page, you can:

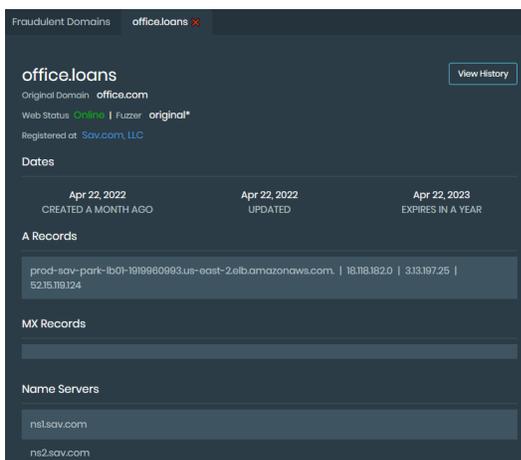
- View information on identified domains. See [Viewing domain information on page 37](#).
- Filter for specific identified domains. See [Filtering fraudulent domains on page 37](#).
- Initiate takedown of a rogue domain that is impersonating your organization. See [Taking down fraudulent domains on page 38](#).
- Stop monitoring domains that are safe or legitimate. See [Stopping domain monitoring on page 39](#).
- Export a Microsoft Excel file that contains information on monitored domains. See [Exporting domains on page 39](#).

Viewing domain information

You can view more information on monitored domains on the *Domains Typo-squatting* tab.

To view more information on a domain:

1. Go to *Brand Protection > Domains Typo-squatting*.
2. Filter for the domain you want to review. See [Filtering fraudulent domains on page 37](#).
3. Select the domain you want to review. The domain information is displayed in a new tab.



Filtering fraudulent domains

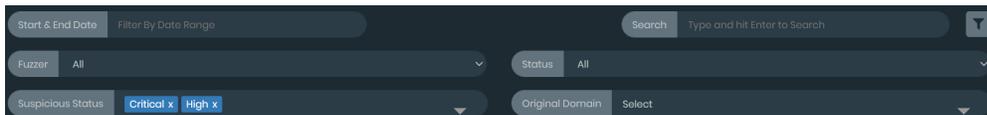
You can filter for specific domains being monitored on the *Domains Typo-squatting* tab. You can filter domains by:

- Start & End Date
- Fuzzer Logic
- Status
- Suspicious Status
- Original Domain

By default, the reports display in *Grid View*. Toggle *Table View* to have the reports appear in a table organized by date.

To filter domains:

1. Go to *Brand Protection > Domains Typo-squatting*.
2. Filter domains 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 domains 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 domains are filtered to display only domains with the keyword.
 - b. Click the *X* beside the keyword to remove the filter.
4. Select the filter icon. The filter categories display with *Critical* and *High* chosen by default.



- a. Select options from the *Fuzzer* and *Status* dropdowns.
 - b. Select options in the *Suspicious Status* and *Original Domain* dropdowns to add them as filters.
 - c. Click the *X* beside the *Suspicious Status* or *Original Domain* filters to remove them.
- The domains that match the set filters are displayed.

Taking down fraudulent domains

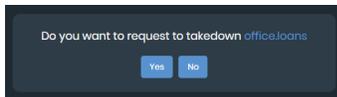
Potentially fraudulent sites with similar domains are monitored on the *Domains Typo-squatting* tab. If a site is determined to be fraudulent or damaging to the company, you can initiate the takedown of the site. Once takedown is initiated, the FortiRecon team works with external agencies to take corrective action.



Takedown can be initiated when the domain hosts content infringing on your organization's intellectual property, such as a logo, or is impersonating your organization's website. A domain cannot be taken down if the domain is similar to that of your organization but there is no content infringement.

To initiate takedown:

1. Go to *Brand Protection > Domain Typo-squatting* and find the domain you want to take down.
2. Select *Takedown*. A confirmation message is displayed.



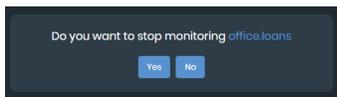
3. Click **Yes**.
The FortiRecon team initiates the takedown process, and a tracking *Ticket* with the domain information is displayed.
4. Go to *Brand Protection > Take Down* to review the status of the domain takedown.

Stopping domain monitoring

If a site listed on the *Domain Typo-squatting* tab is determined to be legitimate or safe, you can stop monitoring it with the other domains.

To stop monitoring a domain:

1. Go to *Brand Protection > Domain Typo-squatting* and find the domain you want to stop monitoring.
2. Select *Stop Monitoring*. A confirmation message is displayed.



3. Click **Yes**.
The FortiRecon team no longer monitors the domain.



You can restore domain monitoring using *Start Monitoring* button. Likewise, the domain can be marked for takedown using the *Takedown* button. See [Taking down fraudulent domains on page 38](#)

Exporting domains

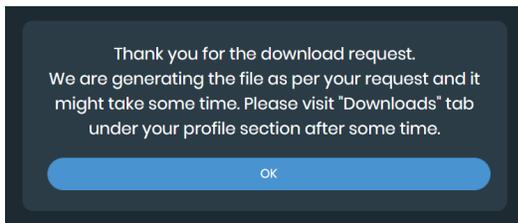
You can export a Microsoft Excel file that lists information on domains that are being monitored. The Microsoft Excel file includes the:

- Similar Domain name
- DNS A
- Registration Date
- Online Status
- Original Domain
- Suspicious Status
- Suspicious Category
- Suspicious Keyword

To export domain information:

1. Go to *Brand Protection > Domains Typo-squatting*.
2. Set any desired filters. See [Filtering fraudulent domains on page 37](#)

3. Click *Export Domains Typo-squatting*.
4. Enter a name for the Microsoft Excel file in the *File Name* text box.
5. Click *Generate Excel*. A confirmation message is displayed.



6. Click *OK*.
7. Retrieve the download. See [Retrieving downloads on page 85](#).

Phishing

FortiRecon tracks potential phishing campaigns on the *Brand Protection > Phishing* page. When a phishing attempt is detected against your organization, a campaign is created to track potentially compromised employees and clients.

Through the use of digital watermarks, FortiRecon can track when a web page has been cloned and hosted on another IP address. Therefore, information can be gathered on potentially compromised users and the web page clone can be taken down.

From the *Brand Protection > Phishing* page, you can:

- Create digital watermarks to add to your organization's assets. See [Adding watermarks on page 40](#).
- Edit existing digital watermarks. See [Editing watermarks on page 41](#).
- Delete existing digital watermarks. See [Deleting watermarks on page 42](#).
- Export a Microsoft Excel file with information on the phishing campaign. See [Exporting phishing results on page 42](#).
- Export a list of employees and customers who may have been victimized by the phishing campaign. See [Exporting phished users on page 43](#).
- Add comments to the potentially compromised employees and clients for internal notetaking. See [Adding comments to compromised users on page 43](#).

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.

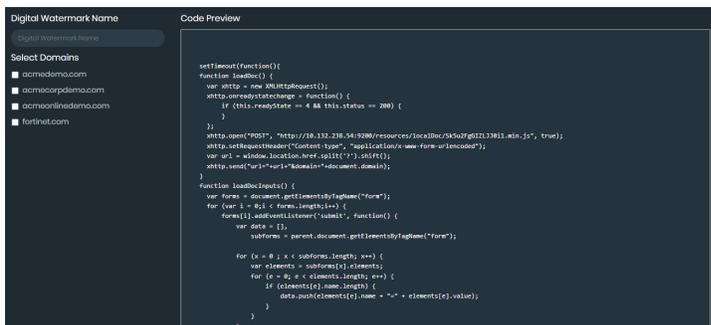
Adding watermarks

You can create a digital watermark to be embedded into your website on the *Phishing* tab. 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

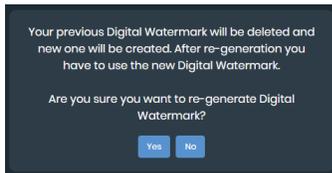
You can edit digital watermarks through the *Brand Protection > Phishing* tab.

To edit a digital watermark:

1. Go to *Brand Protection > Phishing* 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.



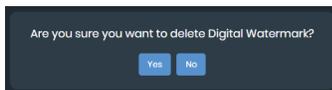
4. Click **Yes**.

Deleting watermarks

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

To delete a digital watermark:

1. Go to *Brand Protection > Phishing* 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**.

Exporting phishing results

When FortiRecon detects that your web page has been cloned and hosted on a new IP address, a campaign is automatically created on the *Phishing* tab. A campaign tracks information on compromised users and allows you to add notes for internal tracking as needed.

You can download a Microsoft Excel file to your computer with information on the phishing campaign. Campaign information includes details on the URL and IP address where the phishing page is hosted. This information is important for initiating web page takedown.

To export phishing campaign information:

1. Go to *Brand Protection > Phishing* and select a campaign.
2. Filter for the information you want:
 - a. Filter users by a date range:
 - i. Click *Date Range*. Two calendars are displayed.
 - ii. In the left calendar, select a month, year, and day to specify the start date of the range.
 - iii. In the right calendar, select a month, year, and day to specify the end date of the range. Only users from the date range are displayed.

- iv. Click the *Date Range* box, and click *X* to remove the date range filter.
 - b. Search for email addresses:
 - i. In the *Type and hit Enter to Search* box, type a full or partial email address, and press *Enter*.
The users are filtered to display only users with the email address information provided.
 - ii. Click the *X* beside the email address to remove the filter.
 3. Select the *Compromised Users* you want to include in the report.
 4. Click the *Export Result* dropdown.
 5. Select *Export Campaign IOC*. A Microsoft Excel file is downloaded to your computer.



You can also export the file using the *Export Result* button.

Exporting phished users

You can download a list of email addresses of potentially victimized users. This information is important for contacting the listed users to inform them of the phishing campaign and any suggested next steps.

To export phished users:

1. Go to *Brand Protection > Phishing* and select the campaign you want.
2. Filter for the information you want:
 - a. Filter users by a date range:
 - i. Click *Date Range*. Two calendars are displayed.
 - ii. In the left calendar, select a month, year, and day to specify the start date of the range.
 - iii. In the right calendar, select a month, year, and day to specify the end date of the range.
Only users from the date range are displayed.
 - iv. Click the *Date Range* box, and click *X* to remove the date range filter.
 - b. Search for email addresses:
 - i. In the *Type and hit Enter to Search* box, type a full or partial email address, and press *Enter*.
The users are filtered to display only users with the email address information provided.
 - ii. Click the *X* beside the email address to remove the filter.
3. Select the *Compromised Users* to include in the report.
4. Click the *Export Result* dropdown.
5. Select *Export Phished Users*. A Microsoft Excel file is downloaded to your computer.

Adding comments to compromised users

Notes can be added to individual users or a group of users. You can review the most recent note in the *Comment* section or all notes in *View History*.

To add a comment to a compromised user:

1. Go to *Brand Protection > Phishing* and select the campaign you want.
2. Find the *Compromised User* you want to add a comment to and select *Add Comment*. The *Add Comment* window opens.
3. Enter your comment in the *Add Comment* text box.
4. Click *Save*. The comment is added to *View History*.

To add a comment to multiple compromised users:

1. Go to *Brand Protection > Phishing* and select the campaign you want.
2. Select *Multiselect* to select all *Compromised Users*, or select specific *Compromised Users*.
3. Select *Add Comment*. The *Add Comment* dialog is displayed.
4. Enter your comment in the *Add Comment* text box.
5. Click *Save*. The comment is added to *View History*.

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 [Viewing rogue applications on page 44](#).
- Filter for specific mobile applications. See [Filtering rogue applications on page 45](#).
- Assign an app status. See [Assigning application status on page 45](#).
- Initiate takedown of a rogue application. See [Taking down rogue apps on page 46](#).
- Export information on applications. See [Exporting rogue applications on page 46](#).

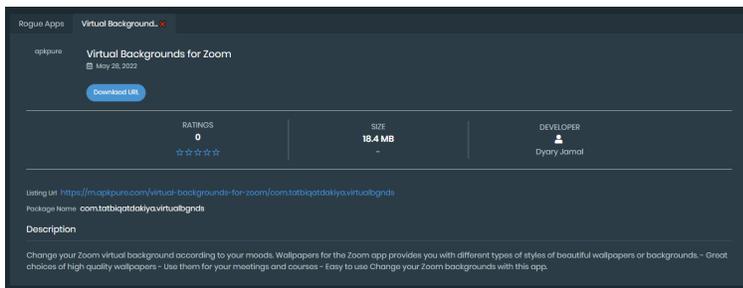
Viewing rogue applications

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

To view more information on a domain:

1. Go to *Brand Protection > Rogue Mobile Apps*.
2. Filter for the application you want to review. See [Filtering rogue applications on page 45](#).

3. 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* tab by *App Status* 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* dropdown.
5. Select the status to filter by, or select *Select All* to see all applications. The apps that match the set statuses are displayed.



Rogue and *Unofficial* app statuses are set by default.

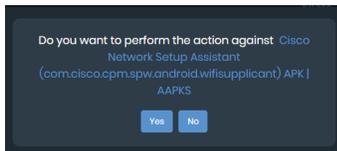
Assigning application status

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

- **Official:** The app is published by officially recognized users.
- **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 the dropdown and select the new application status. A confirmation message is displayed.



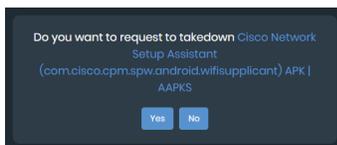
3. Click Yes.

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* tab.

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 *Official* or *Unofficial*, change the application status to *Rogue*. See [Assigning application status on page 45](#).
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* tab. Information included in exported file includes:

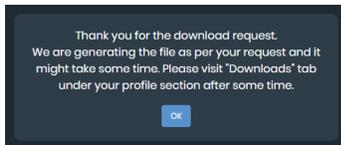
- App name and size
- Description
- Developer name and URL
- Download count and URL
- Date the app was discovered
- Listing URL
- Package name
- Source name
- Status

To export rogue application details:

1. Go to *Brand Protection > Rogue Mobile Apps*.
2. Set the desired filters. See [Filtering rogue applications on page 45](#)
3. Click *Export Rogue Apps*. 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.

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.

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

- Filter for specific takedown requests by date, category, status, and ticket number. See [Filtering takedown requests on page 47](#).

Filtering takedown requests

You can filter the takedown requests or search for specific *Ticket* numbers on the *Take Down* tab.

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. Select the request category in the *Category* dropdown.
5. Select the current status of the request from the *Status* dropdown:
 - a. *Requested*: You have requested that the fraudulent product be taken down.
 - b. *Acknowledged*: The FortiRecon team has acknowledged that they have received the request for takedown.
 - c. *Work In Progress*: The FortiRecon team is currently working on taking down the fraudulent product.
 - d. *Closed*: The fraudulent product has been taken down and the ticket has been closed.

The tickets 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 tabs:

Dashboard	Displays a summary of your organization's risk exposure to overall global threats. See Dashboard on page 49 .
Reports	Displays all the intelligence reports available to you. See Reports on page 53 .
Card Fraud	Displays information about credit or debit cards that are for sale on darknet marketplaces. See Card Fraud on page 58 .
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 60 .
OSINT - Cyber Threats	Displays OSINT-based intelligence reports about threat events. See OSINT Cyber Threats on page 64 .
Vulnerability Intelligence	Displays information on monitored CVEs. See Vulnerability Intelligence on page 68 .
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 72 .

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 49](#).
- View your organization's risk exposure. See [Viewing risk exposure summary on page 50](#).
- View global threat reports. See [Viewing global threat report summary on page 51](#).

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.

Hover your mouse over a dot on the chart to view the number of exposed email addresses on a specific date.

Stealer Infection	<p>Displays data from potentially infected systems that are affiliated with your employees or end-users and are for sale on credential stealer marketplaces on the darknet.</p> <p>The number of compromised systems and the number of stealers found are displayed.</p> <p>Hover your mouse over a dot on the chart to view the number of compromised systems on a specific date.</p> <p>Hover your mouse over a section of the <i>Top Affiliated Domains</i> circle to view the name of the affiliated domain.</p>
Associated Threats	<p>Displays information about threats reported against your industry and geographical area.</p> <p>The number of reported threats that are specific to your industry and the number of reported threats in your geographic area are displayed.</p> <p>Click the widget to display more details on the <i>Adversary Centric Intelligence > Reports</i> page.</p>
High Relevance Reports	<p>Displays the reports that are flagged as highly relevant to your organization. Reports must meet certain criteria to be considered relevant. The newest reports are displayed at the top.</p> <p>Click a report to display more details on the <i>Adversary Centric Intelligence > Reports</i> page.</p>
Global Event Exposure	<p>Displays the latest, published intelligence reports related to notable cyber events from around the globe.</p> <p>Automatically scrolls through the reports, or click the blue bars at the bottom of the widget to view specific reports.</p>
Card Fraud This widget is only displayed for banking organizations that issue credit or debit cards.	<p>Displays statistics related to credit or debit cards that are listed for sale on darknet marketplaces.</p> <p>The number of cards for sale is displayed as well as how many of the cards are credit cards and how many are debit cards. Click the <i>Cards for Sale</i> number to display more details on the <i>Adversary Centric Intelligence > Card Fraud</i> page.</p> <p>Hover your mouse over the bars in the chart to view the number of card frauds on a specific date.</p> <p>The top card bin numbers are also displayed.</p>

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 <i>Adversary Centric Intelligence > Reports</i> 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: <ul style="list-style-type: none"> • Flash Alert • Flash Report • Threat Alert • Threat Report Automatically scrolls through the reports, or you can click the blue bars at the bottom of the widget to view specific reports.
Actively Exploited CVEs	Displays the number of currently and previously exploited CVEs and identifies a list of newly exploited CVEs. Click the widget to display more details on the <i>Adversary Centric Intelligence > Investigation</i> page.
Top Actors	Displays the number of actors being tracked as well as the number of reports on the actors.

Displays a summary of top actors. Click the name of a top actor to display more details on the *Adversary Centric Intelligence > Reports* page.

Notable Category Reporting

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

Reports

The *Adversary Centric Intelligence > Reports* page displays all the intelligence reports available to you. By default all reports are displayed, starting with the latest report. From the *Adversary Centric Intelligence > Reports* page, you can:

- View the details of each report. See [Viewing reports on page 53](#).
- Apply filters to the list of reports to hone in on specific reports. See [Filtering reports on page 54](#).
- Download a PDF of reports. See [Downloading reports and observables on page 56](#).
- Share reports. See [Sharing reports on page 57](#).
- Export observables to Microsoft Excel format. See [Exporting observables on page 58](#).

Viewing reports

The *Adversary Centric Intelligence > 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 reports on page 54](#).

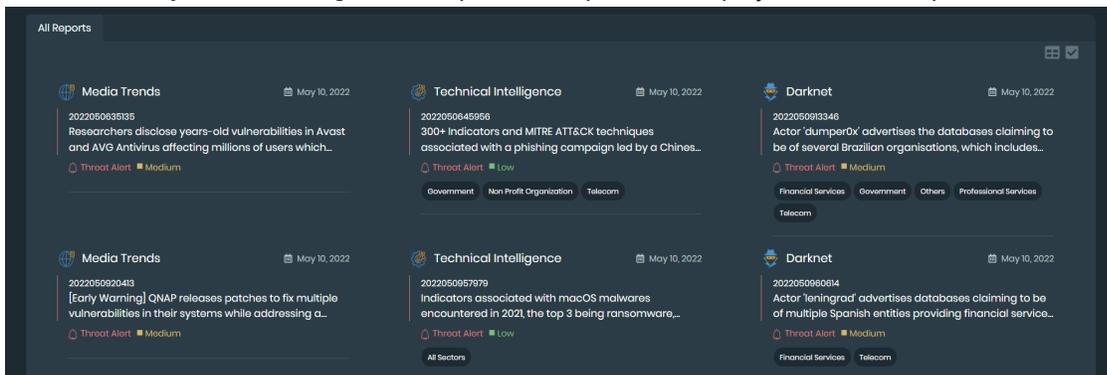
When you open a report, its details are displayed on a separate tab, and you can download a PDF of the report, share the report with another person, and access related reports. When the report contains associated observables, you can download them in Microsoft Excel format.

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 36](#).

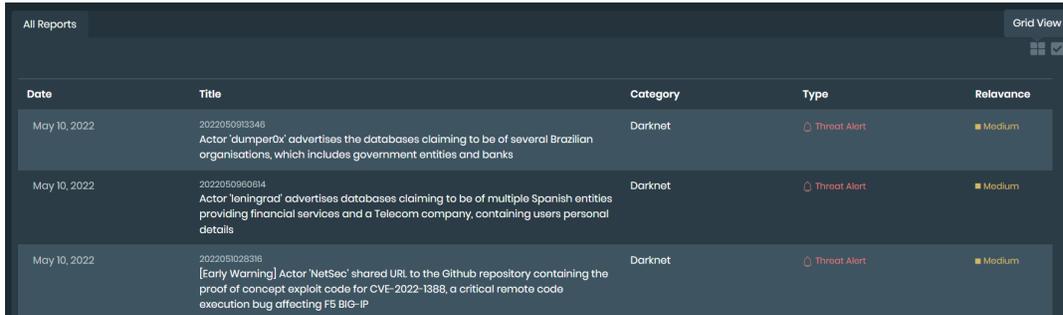
To view reports:

1. Go to *Adversary Centric Intelligence > 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*.



Date	Title	Category	Type	Relevance
May 10, 2022	2022050913346 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	2022050908014 Actor 'loningraf' 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	2022051028316 [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.



Threat Alert - 2022051212887 Ver.1.0

Darknet | Exploit Forum

Actor 'Amunet', the owner of Amunet cyber-crime forum, shared logs acquired using an unidentified credential stealer, from a total of 953 Indian users' infected systems

May 11, 2022 | Low

TLP

Threat Alerts provide timely information and initial findings about security issues, vulnerabilities, exploits and darknet advertisement posts discovered by Valon Threat Research from a variety of sources such as Darknet, Media Articles, Security Blogs, Social Media, etc. These Threat Alerts contain limited information and could be updated later to turn into Threat Reports with detailed analysis.

Threat Summary:
Valon Threat Research identified a post on the Russian language cyber-crime forum 'Exploit', where an actor who operates by the handle 'Amunet', the owner of Amunet cyber-crime forum, shared logs acquired using an unidentified credential stealer from a total of 953 Indian users' infected

Associations

- Source: C-Fairly reliable
- Information: 2-Probably true
- Amunet
- Cyber Crime
- South Asia
- All Sectors
- Malware
- Credential Stealer
- Account(s) Compromised

Related Reports

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:

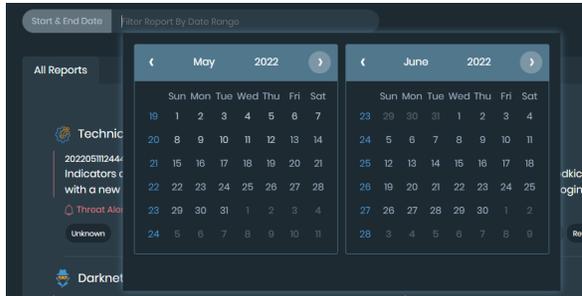
- View a list of reports related to the open report.
- Click a related report to open it in a new tab.
- Click a tag to return to the *All Reports* tab to view the list of reports filtered on the selected tag.

Filtering reports

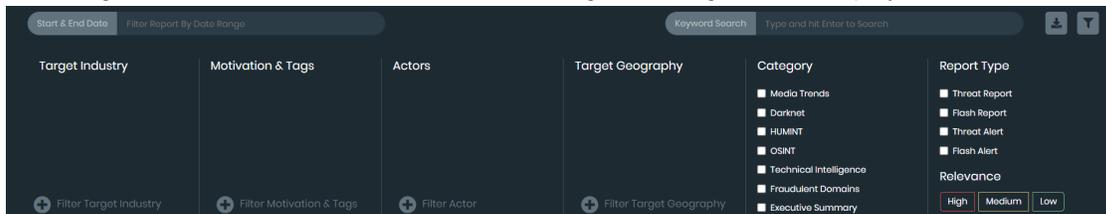
Reports can be filtered by date range, keywords, categories of filters, and relevance to your organization.

To filter reports:

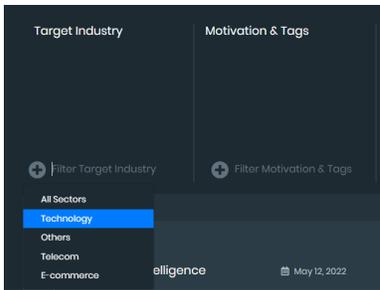
1. Go to *Adversary Centric Intelligence > Reports*.
2. Filter reports by a date range:
 - a. Click *Filter Report by Date Range*. Two calendars are displayed.



- 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. Under the *Target Industry*, *Motivation & Tags*, *Actors*, and *Target Geography* categories, click *Filter <category name>*, and select one or more filters.



- 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 reports and observables

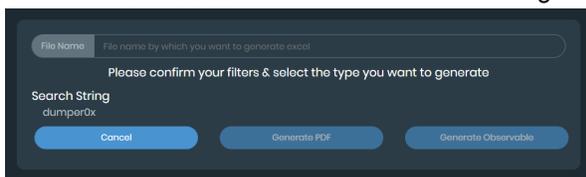
You can download a PDF of the reports displayed on the *Adversary Centric Intelligence > Reports* page to your hard drive. A maximum of 300 reports can be downloaded at one time.

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

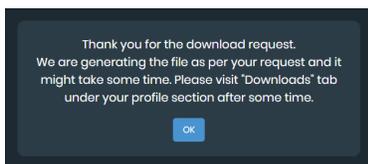
When you open a report, you can download a PDF of the open report.

To download reports:

1. Go to *Adversary Centric Intelligence > Reports*.
2. Filter the reports. See [Filtering reports on page 54](#).
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.
4. Click the *Downloads* button. A confirmation dialog is displayed.



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



- 8. Click *OK*.
- 9. Retrieve the download. See [Retrieving downloads on page 85](#).

To download a PDF from an open report:

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



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

Sharing reports

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

To share a report:

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



- 3. 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 reports on page 53](#).
2. Scroll down to the *Associated Observables* section.

In the following example, the report has 741 associated observables:

Observable	Type of Observable	Number of Matching Reports
2cc4534b0dd0e1c8d5b89644274a10c1	hash	3
785ee2c15c0b7172f65d39f0fd33b9186ee98653	hash	3
905e0119ad8d3e54cd228c45801b5681abc1f35df782977a23812ec40fa0288a	hash	3
130.0.233.178	ip	2
0d4cf4d5f66310de87c2e422d7804e66279fe3e3cd6a27723225aef214e9b00	hash	2
1526fc970cdb0e5a69f0cca2284d12312c8f7c9d0e77aa264aa426041a4f03e7	hash	2
13e623c4fb75d99ea7e04c6157ca8ae6	hash	2
31a57376158d826ae4cfa0574143d7ee	hash	2
2f72550c99a297558235caa97d025054f70a276283998d96885c282812abdbee0	hash	2
389f2000a22e839ddafb28d9cf522b0b71e303e0aa89e5fc2cd5b53ae9256848	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 for FortiRecon, and click *OK*. The Excel file opens.

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 59](#).
- Filter the information. See [Filtering leaked card information on page 59](#).
- Download the list of leaked cards to Microsoft Excel format. See [Exporting a list of leaked cards on page 60](#).

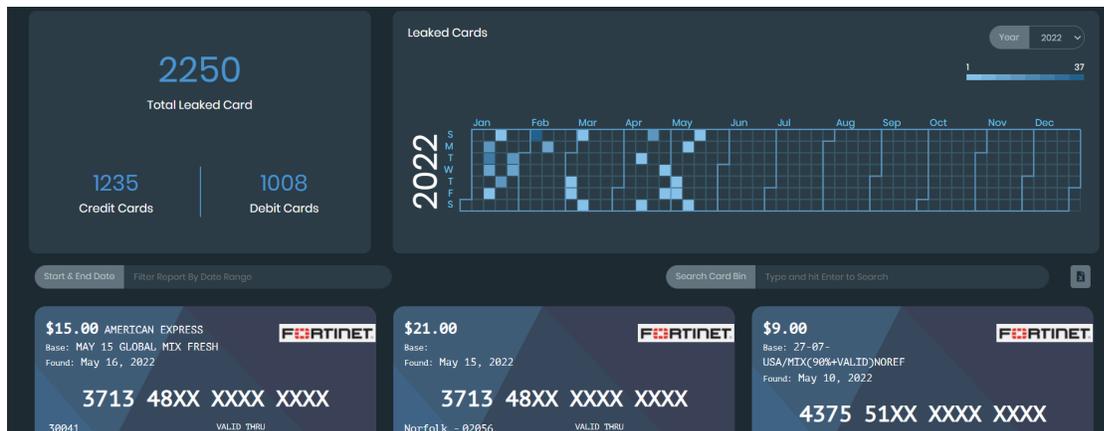
Viewing leaked card information

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.



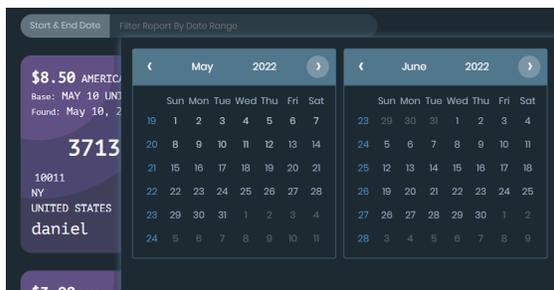
2. You can filter the displayed information. See [Filtering leaked card information on page 59](#).

Filtering leaked card information

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

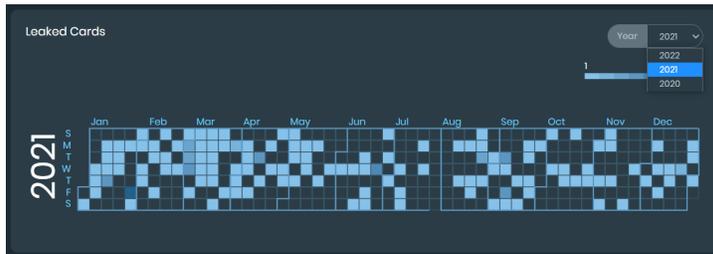
To filter leaked card information:

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*.

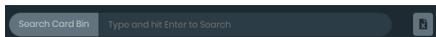


Exporting a list of leaked cards

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.

On the *Stealer Infection* page, you can:

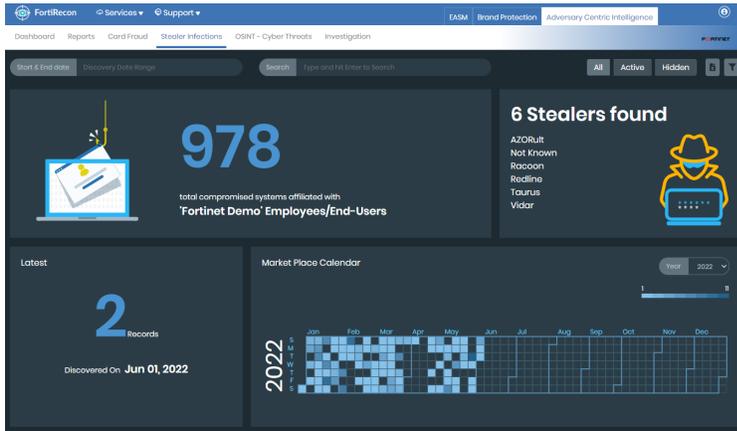
- View information about stealer infections. See [Viewing stealer infection information on page 60](#).
- Filter stealer infection information. See [Filtering stealer infection information on page 61](#).
- Export market place data. See [Exporting market place data on page 63](#).
- Move affiliated domains to the hidden tab. See [Hiding affiliated domains on page 63](#).
- Unsubscribe from affiliated domain notifications. See [Unsubscribing from affiliated domain notifications on page 64](#).

Viewing stealer infection information

The *Adversary Centric Intelligence > Stealer Infections* 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 stealer infection information:

1. Go to *Adversary Centric Intelligence > Stealer Infections*. The *Stealer Infections* page is displayed.



2. Use the following widgets to review information about stealer infections:

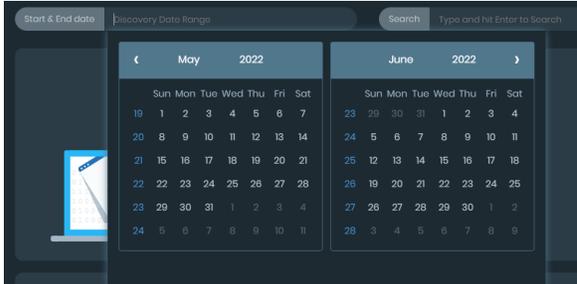
Total compromised systems affiliated with <organization name>	Displays the total number of compromised systems affiliated with your organization.
Stealers Found	Display the number of stealers found and the names of the stealers.
Latest	Displays the latest number of stealer events and the date that the event was discovered.
Market Place Calendar	Displays a summary of the 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.
Affiliated Domains	Lists the domain names affiliated with the stealer events and the number of affected systems. Click the <i>Click to Hide</i> icon to move the affiliated domain to the hidden tab.
Systems Infected	Displays a list of infected systems. Expand the affiliated domain to view a list of identified sites.

Filtering stealer infection information

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

To filter stealer infection information:

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

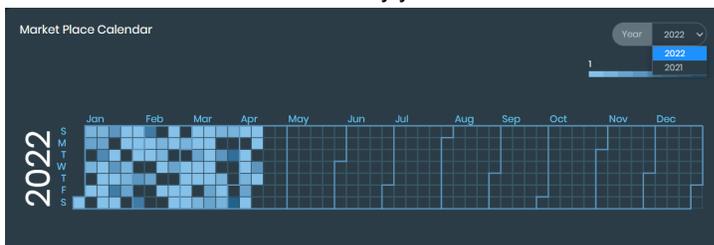


- b. In the left calendar, select a month, year, and day to specify the start date of the range.
 - c. In the right calendar, select a month, year, and day to specify the end date of the range. Only information from the date range is displayed.
 - d. Click the X in the *Start & End Date* box to remove the date range filter.
3. Search for keywords:
 - a. In the *Type and hit Enter to Search* box, type a keyword, and press *Enter*. The information is filtered.
 - b. Click the X beside the keyword to remove the filter.
4. Click *All*, *Active*, or *Hidden* to use those filters. For example, click *Hidden* to display only information from the hidden tab.
5. Filter reports by categories:
 - a. On the right-side, click the *Filters* button. The following filter categories are displayed:



- *Stealer*
- *Country*
- *State*
- *ISP*
- *MarketPlace*

- b. Click *Filter <category>* , and select one or more filters.
6. Filter the *Market Place Calendar* by year:



Exporting market place data

You can download all the market place information to download an *All Market Place.xlsx* file in Microsoft Excel format. Alternately you can limit the export to infected systems and download a *Market Place.xlsx* file.

To export market place:

1. Go to *Adversary Centric Intelligence > Stealer Infections*.
2. (Optional) Filter the data. See [Filtering stealer infection information on page 61](#).
3. Click the *Export to Market Place* button.
An *All Market Place.xlsx* file is downloaded.

To export infected systems:

1. Go to *Adversary Centric Intelligence > Stealer Infections*, and scroll down to the *Systems Infected* widget.
2. Select the checkmark for the systems to include in the export. The *Export Market Place* button becomes available.

Discovery Date	Stealer	Country	State	ISP	Price	Affiliated Domains
<input checked="" type="checkbox"/> May 31, 2021	Redline	Peru	Lima	ISP: TDP-GRS	\$ 10.00	portal.office.com & 5478 More Domains >
<input checked="" type="checkbox"/> May 31, 2021	Redline	Portugal	Aveiro	ISP: MEO - SERVICOS DE COMUNICACOES E MULTIMEDIA S.A	\$ 7.00	portal.office.com & 9187 More Domains >
<input type="checkbox"/> May 31, 2021	Vidar	Serbia	Grocka	ISP: Serbian BroadBand	\$ 1.00	portal.office.com & 8477 More Domains >

3. Click the *Export to Market Place* button.
A *Market Place.xlsx* file is downloaded.

Hiding affiliated domains

You can move affiliated domains to the *Hidden* tab. You can view the *Hidden* tab by clicking *Hidden* at the top-right of the page.

To hide affiliated domains:

1. Go to *Adversary Centric Intelligence > Stealer Infections*.
2. Scroll down to the *Affiliated Domains* section, and click the *Click to Hide* icon for the domains you want to hide.

Domain	Systems	Click to hide
portal.office.com	866 Systems	<input type="checkbox"/>
outlook.office.com	66 Systems	<input type="checkbox"/>
sway.office.com	27 Systems	<input type="checkbox"/>
office.com	5 Systems	<input type="checkbox"/>
.office.com	4 Systems	<input type="checkbox"/>
stores.office.com	4 Systems	<input type="checkbox"/>
forms.office.com	3 Systems	<input type="checkbox"/>
clientlog.portal.office.com	1 System	<input type="checkbox"/>
.support.office.com	1 System	<input type="checkbox"/>
webshell.suite.office.com	1 System	<input type="checkbox"/>
.c.office.com	1 System	<input type="checkbox"/>
.forms.office.com	1 System	<input type="checkbox"/>

The domain is moved to the hidden tab.

Unsubscribing from affiliated domain notifications

You can unsubscribe from affiliated domain notifications.

To unsubscribe from affiliated domain notifications:

1. Go to *Adversary Centric Intelligence > Stealer Infections*.
2. Scroll down to the *Affiliated Domains* section, and click the *Click to Unsubscribe and Stop Email Notifications* icon.

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 *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:

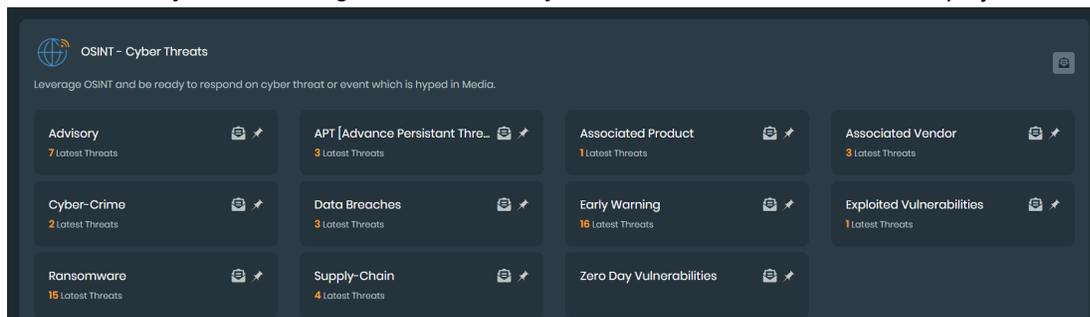
- Review threat events. See [Reviewing threats on page 64](#).
- Pin threat events to the top of the list. See [Pinning events on page 65](#).
- Subscribe to threat event notifications. See [Subscribing to event notifications on page 66](#).
- Subscribe other FortiRecon users to event notifications. See [Adding subscriptions on page 67](#).

Reviewing threats

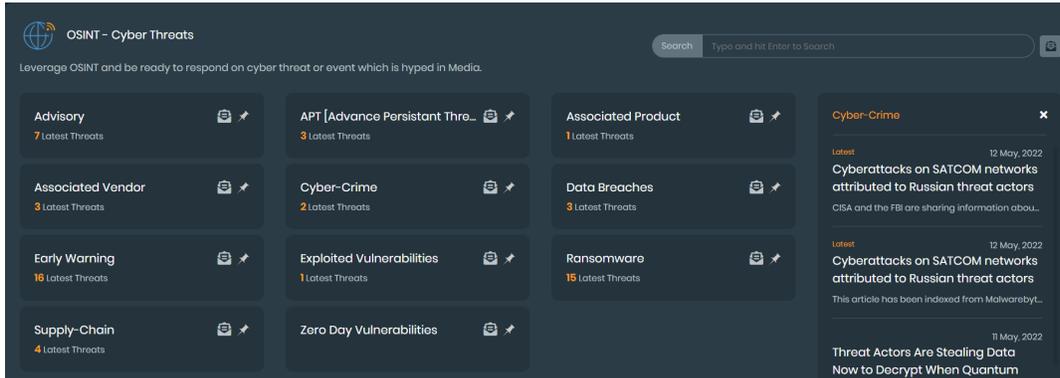
You can view more information about each threat.

To review threats:

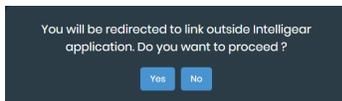
1. Go to *Adversary Centric Intelligence > OSINT - Cyber Threats*. The list of events is displayed.



2. Click an event title, such as *Cyber-Crime*. The list of events is displayed on the right side. In the following example, *Cyber-Crime* is selected:



3. On the right, click the event to display more information about it outside the FortiRecon portal. A confirmation dialog is displayed.



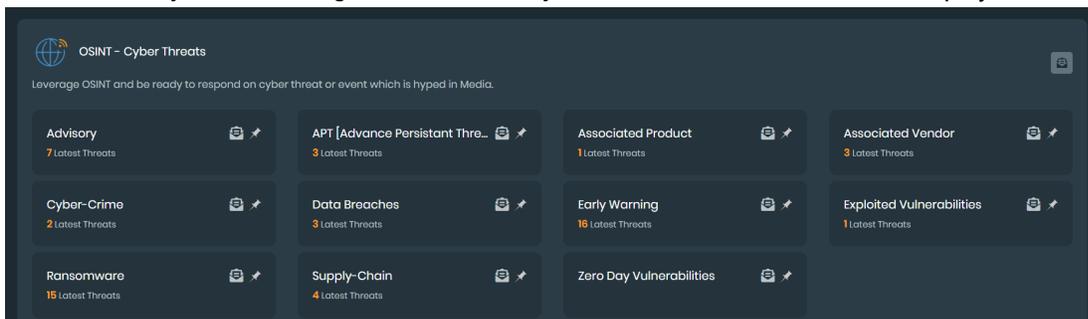
4. Click Yes to open the link in a new tab in your browser.

Pinning events

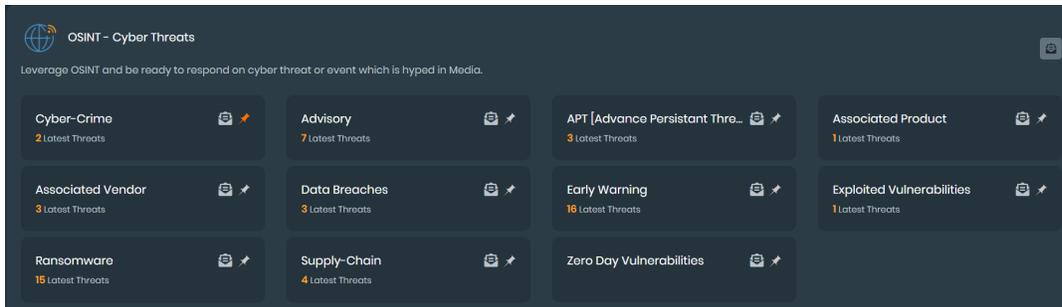
You can pin events to the top of the list. Pinned events have an orange *Pin* icon. Unpinned events have a white *Pin* icon.

To pin events:

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



2. Click the *Pin* icon beside an event to turn the pin orange and pin the event to the top of the list. In the following example, *Cyber-Crime* is pinned to the top of the list.



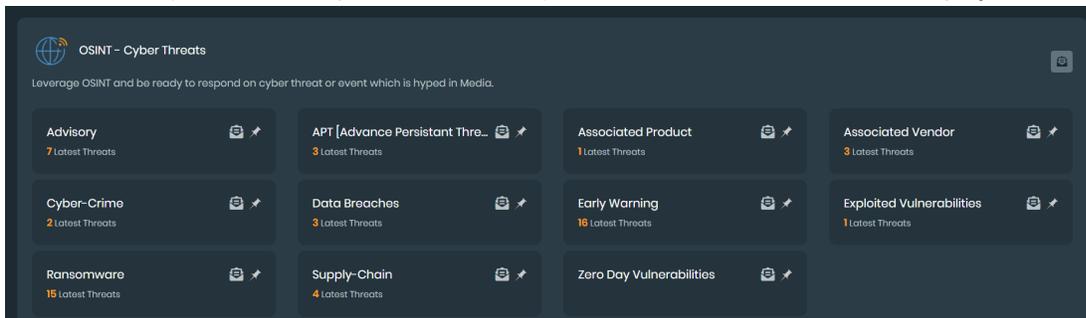
Click the *Pin* icon again to turn the pin white and unpin the event from the top of the list.

Subscribing to event notifications

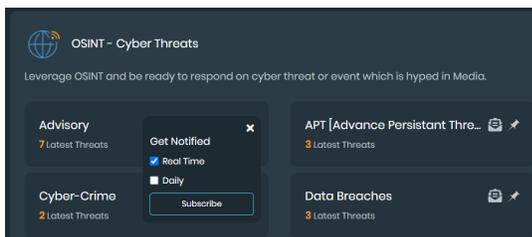
You can enable subscriptions to receive notifications for one or more threat events. You can also change subscriptions and unsubscribe.

To subscribe to event notifications:

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



2. For an event, click the *Subscribe* icon. The subscription options are displayed for the event. In the following example, subscription options are displayed for the *Advisory* event:



3. Select one of the following options to specify when to receive the notification:

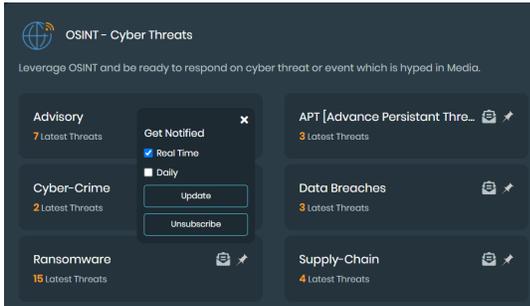
Real time	Select to receive a notification when a new threat event is published.
Daily	Select to specify the time each day to receive a notification about new threat events.

4. Click *Subscribe*.
The *Subscribe* icon turns blue.



To change event notifications:

1. Go to *Adversary Centric Intelligence > OSINT - Cyber Threats*. The list of events is displayed.
2. Click a blue *Subscribe* icon. The subscription options are displayed.



3. Change when you get notified, and click *Update*.

To unsubscribe from event notifications:

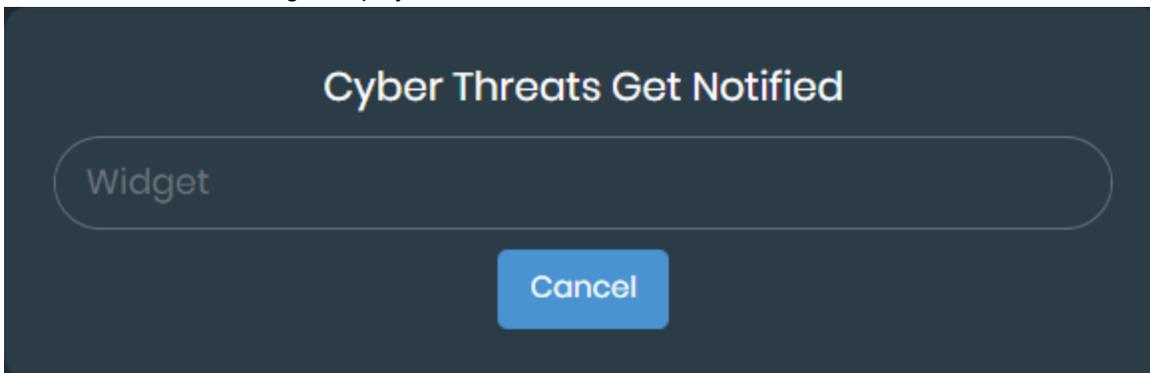
1. Go to *Adversary Centric Intelligence > OSINT - Cyber Threats*. The list of events is displayed.
2. Click a blue *Subscribe* icon. The subscription options are displayed.
3. Click *Unsubscribe*.
The *Subscribe* icon turns white, and notifications are turned off.

Adding subscriptions

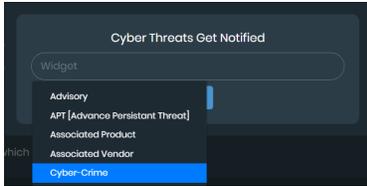
FortiRecon users with Admin privilege can set up subscriptions for other FortiRecon users to receive notifications about events.

To add subscriptions:

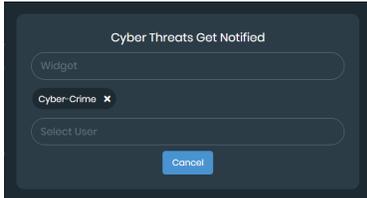
1. Go to *Adversary Centric Intelligence > OSINT - Cyber Threats*, and click the *Add Subscription* button. The *Cyber Threats Get Notified* dialog is displayed.



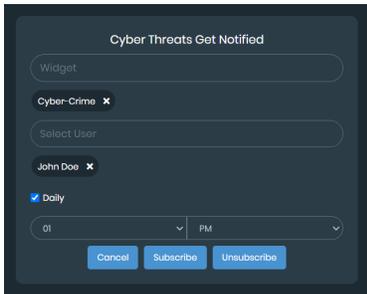
2. Click the *Widget* box, and select the threat events.
In the following example, *Cyber-Crime* is selected.



The *Select User* box is displayed.



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



The *Daily* check box is displayed. By default users receive notifications in real-time as events occur.

4. Select *Daily* specify what time each day the user should receive the notification. Clear the *Daily* check box to receive notifications in real time.
5. Click *Subscribe*.

Vulnerability Intelligence

The *Adversary Centric Intelligence > Vulnerability Intelligence* page displays information on vulnerability exposure to help prioritize vulnerability patching. From the *Vulnerability Intelligence* page, you can:

- Review known CVEs. See [Vulnerability exposure on page 68](#).
- Review the notable global CVEs. See [Global notable vulnerabilities on page 70](#).
- View specific CVE reports. See [Viewing and filtering CVE reports on page 70](#).
- Export a list of CVEs. See [Exporting CVEs on page 72](#).
- Bulk add CVEs to monitor. See [Manually adding CVEs on page 72](#).

Vulnerability exposure

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

- **Total CVEs Monitored:** This tile displays the total count of monitored CVEs.



When the severity status of a CVE is changed, a flash tile will appear to show the updates.



- **Distribution of CVEs by severity:** This tile displays a graph of CVEs to show the total count of CVEs per rating, from *Low* to *Critical*.



- **Top 10 vendors by CVEs:** Displays a list of the vendors with the most CVEs monitored and the severity range from *Low* to *Critical*. Select a *Vendor Name* or *Severity* to view more information.

Vendor Name	No of CVEs associated	Severity
Apache	36	0 Critical, 2 High, 8 Medium, 25 Low
Canonical	26	0 Critical, 1 High, 3 Medium, 22 Low
Debian	26	0 Critical, 2 High, 5 Medium, 19 Low
Netapp	18	0 Critical, 0 High, 3 Medium, 15 Low
Redhat	17	0 Critical, 1 High, 4 Medium, 12 Low
Oracle	15	0 Critical, 1 High, 2 Medium, 12 Low
Openssl	12	0 Critical, 0 High, 1 Medium, 11 Low
Openssl	10	0 Critical, 0 High, 1 Medium, 9 Low
Fedoraproject	7	0 Critical, 1 High, 1 Medium, 5 Low
Apple	5	0 Critical, 0 High, 2 Medium, 3 Low

- **CVEs from EASM Module:** Displays a list of automatically monitored CVEs. Select the *CVE ID* or *Show More* button to view more information.

CVE ID	Vendor	NVD Severity	FortiRecon Severity	Addition Date
CVE-2010-4478	Openbsd	High	Medium	Oct 01,2022
CVE-2010-4755	Netbsd,openbsd,freebsd	Medium	Low	Oct 01,2022
CVE-2010-5107	Openbsd	Medium	Low	Oct 01,2022
CVE-2011-4327	Openbsd	Low	Low	Oct 01,2022
CVE-2011-5000	Openbsd	Low	Low	Oct 01,2022
CVE-2012-0814	Openbsd	Low	Low	Oct 01,2022
CVE-2013-4352	Apache	Medium	Low	Oct 01,2022
CVE-2013-8438	Apache,oracle,canonical	Medium	Low	Oct 01,2022
CVE-2014-0098	Apache,oracle,canonical	Medium	Low	Oct 01,2022
CVE-2014-017	Apple,apache	Medium	Medium	Oct 01,2022

- **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 *ACI > Vulnerability Intelligence* page in the *Global notable vulnerabilities* section:

- **Total Notable CVEs:** This tile displays the total count of notable CVEs.



- **Top 5 vendors by CVEs:** Displays a list of the vendors with the most notable CVEs monitored and the severity range from *Low* to *Critical*. Select a *Vendor Name* to view more information.

Vendor Name	No of CVEs associated	Severity
Microsoft	146	7 Critical, 57 High, 25 Medium, 57 Low
Debian	35	1 Critical, 24 High, 2 Medium, 8 Low
Google	25	2 Critical, 14 High, 3 Medium, 6 Low
Fedoroproject	22	1 Critical, 15 High, 2 Medium, 4 Low
Oracle	20	2 Critical, 11 High, 5 Medium, 2 Low

- **Top 10 Notable CVEs:** Displays a list of the notable CVE monitored and the severity range from *Low* to *Critical*. Select the *CVE ID* or *Show More* button to view more information.

CVE ID	Vendor	NVD Severity	FortiRecon Severity	Addition Date
CVE-2013-5948	Asust-mobile	High	High	Oct 02,2022
CVE-2017-18135	Dreambox	Critical	High	Oct 02,2022
CVE-2020-15893	D-link	Critical	Medium	Oct 02,2022
CVE-2020-24217	Providoinstruments,suray,techdigital	Critical	High	Oct 02,2022
CVE-2021-34730	Cisco	Critical	High	Oct 02,2022
CVE-2012-1882		-	Low	Oct 01,2022
CVE-2017-10001	Oracle	High	Low	Oct 01,2022
CVE-2017-12233	Cisco	High	Medium	Oct 01,2022
CVE-2017-12237	Cisco	High	Medium	Oct 01,2022
CVE-2017-12238	Cisco	Medium	Low	Oct 01,2022

[Show More](#)

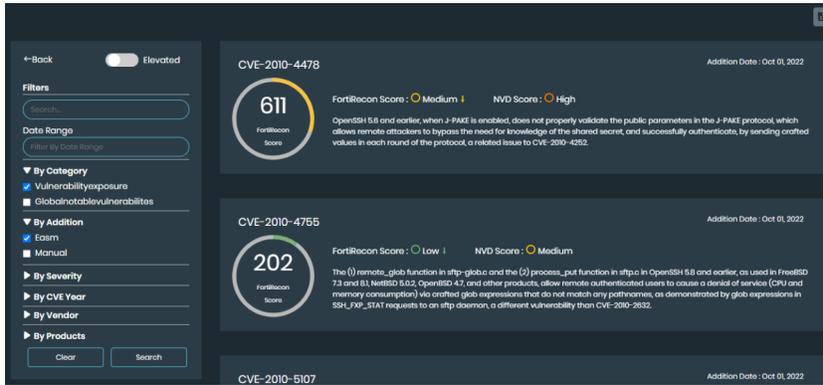
Viewing and filtering CVE reports

You can review detailed CVE reports in the *ACI > Vulnerability Intelligence* page by:

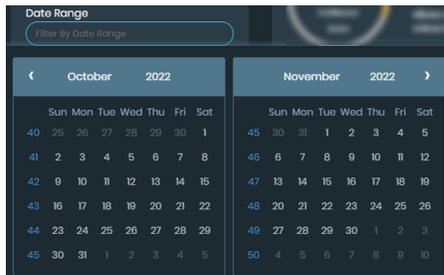
- Selecting the CVE ID from the *Vulnerability exposure > CVEs from EASM Module* and *CVEs added Manually* tabs.
- Selecting the CVE ID from the *Global notable vulnerabilities > Top 10 Notable CVEs*.
- Filtering the vendor reports from *Vulnerability exposure > Top 10 vendor by CVEs* or *Global notable vulnerabilities > Top 5 vendor by CVEs*.
- Filtering all reports with the *Show More* button.

To filter reports:

1. Go to *ACI > Vulnerability Intelligence*.
2. Select a *Vendor Name* or the *Show More* button. The CVE cards page is displayed.



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 *ACI > Vulnerability Intelligence*.
2. Select a *Vendor Name* or the *Show More* 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 70](#).
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 *ACI > Vulnerability Intelligence* page.

To manually add CVEs:

1. Go to *ACI > 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*.

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 73](#).
- Review the reputation of a domain. See [Reviewing domain reputation on page 73](#).

- Review a file hash. See [Reviewing a file hash on page 73](#).
- Review a CVE. See [Reviewing a CVE on page 73](#).

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 75](#). The menu appears as three vertical dots:



From the menu, you can also change the color theme of the FortiRecon pages. See [Changing the color theme on page 76](#).

The *Profile Settings* module contains the following tabs:

Profile	Displays information about your personal FortiRecon account. You can edit details of your account, configure daily digest reports, and enable custom email alerts. See Profile on page 77 .
Users	Displays account information for members of your organization. Administrators can add, edit, and delete user accounts. See Users on page 79
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 82 .
Change Password	Allows you to change your personal account password. See Change password on page 83 .
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 84 .
Integrations	Displays the webhook integrations with Microsoft Teams and Slack. You can create, edit, disable, and delete integrations. See Integrations on page 85 .
Seeds	Displays the domains, card BINs, and mobile applications of your organization that are being monitored by FortiRecon. See Seeds on page 88 .

Accessing profile settings

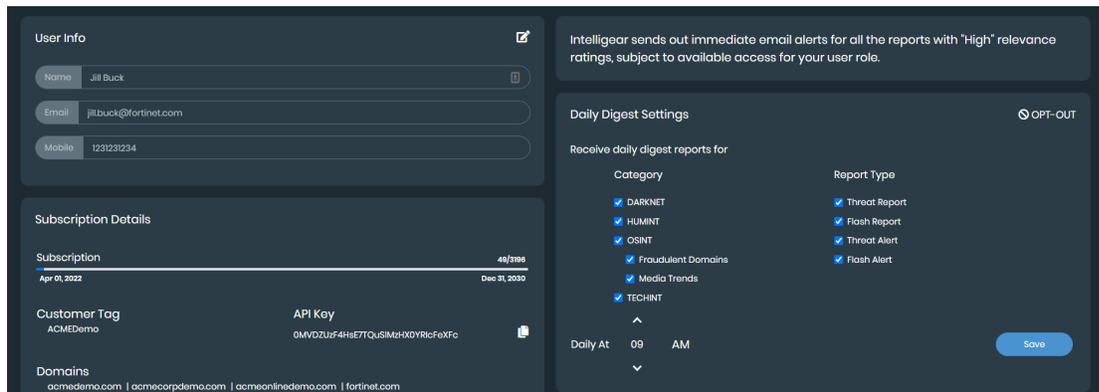
You can access the *Profile Settings* from any page by selecting the menu in the top-right corner.

To access profile settings:

1. Hover over the profile menu in the top-right corner, and select *Profile Settings*.



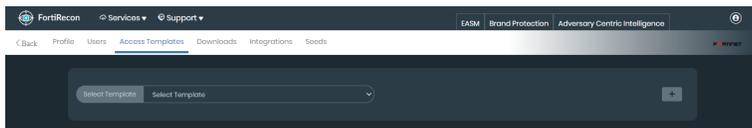
The *Profile* tab is displayed.



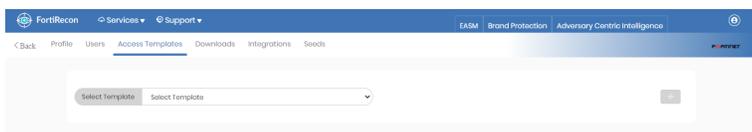
Changing the color theme

You can choose between a light and dark color for the pages of the FortiRecon portal.

Following is an example of the dark theme:



Following is an example of the light theme:



To change the color theme:

1. Click the menu in the top-right corner, and select *Change Theme*.

Profile

The *Profile* tab provides information on your personal account information and allows you to customize settings. From the *Profile Settings > Profile* tab, you can:

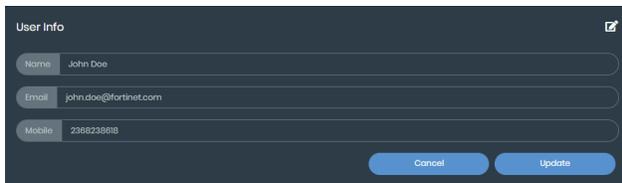
- Edit personal account information. See [Editing user information on page 77](#).
- Configure daily reports on recent FortiRecon activity. See [Opting in to daily digest reports on page 77](#).
- Opt-out of daily reports on recent FortiRecon activity. See [Opting out of daily digest reports on page 78](#).
- View information about your subscription, such as registered domains, target industries and geography, keywords, and your API key. See [Viewing subscription details on page 78](#).
- Copy your API key for sharing. See [Sharing the API key on page 79](#).
- Configure personalized email notifications when specific keywords occur in FortiRecon reports. See [Receiving custom email alerts on page 79](#).

Editing user information

You can edit your personal user information on the Profile tab. To edit other FortiRecon account users, see [Editing users on page 81](#).

To edit personal user information:

1. Go to *Profile Settings > Profile*.
2. Click the edit icon in *User Info*. The *Cancel* and *Update* buttons display.



The screenshot shows a dark-themed 'User Info' dialog box with a pencil icon in the top right corner. It contains three text input fields: 'Name' with the value 'John Doe', 'Email' with the value 'john.doe@fortinet.com', and 'Mobile' with the value '238823888'. At the bottom of the dialog are two buttons: 'Cancel' and 'Update'.

3. Enter new information into *Name*, *Email*, and *Mobile* as needed.
4. Click *Update*. Your personal user information is updated.

Opting in to daily digest reports

You can receive emailed daily digest reports that include important information and highlights on reports and alerts that occurred in the past 24 hours.

To opt-in to daily digest reports:

1. Go to *Profile Settings > Profile*.
2. Click *Opt-in* in *Daily Digest Settings*. The *Category* and *Report Type* fields become active.



3. Select the options to include, and clear the options to exclude from the daily digest report.
4. Use the up and down *Daily At* arrows, or manually enter the hour you want to receive the daily digest report.
5. Toggle *AM* and *PM* to decide the hour in the 12-hour time convention.
6. Click *Save*. The daily digest report is sent to your email each day at the time specified.



The *Daily At* feature uses the 12-hour time convention by default. If you enter a time in 24-hour format, the time is automatically adjusted to the 12-hour format. For example, if you enter 15 AM, the time is adjusted to 3 PM.

Opting out of daily digest reports

Daily digest reports are enabled by default, but you can stop the emails by opting-out in the *Profile* tab.

To opt-out of daily digest reports:

1. Go to *Profile Settings > Profile*.
2. Click *Opt-out* in *Daily Digest Settings*. You will no longer receive daily digest reports.

Viewing subscription details

Subscription Details provides information on your subscription, including domains, keywords, and your API key.

To view subscription details:

1. Go to *Profile Settings > Profile*.
2. Scroll to *Subscription Details* to view information on your:
 - Subscription
 - Customer Tag
 - API Key
 - Domains
 - Keywords
 - Target Industry
 - Target Geography

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.

Receiving custom email alerts

You can configure custom email alerts so that you receive email notifications whenever there is a report that relates to the categories you set.

To configure custom email alerts:

1. Go to *Profile Settings > Profile*.
2. In *Custom Email Alerts*, select alert inputs by clicking and choosing from:
 - *Target Industry*
 - *Motivation & Tags*
 - *Actors*
 - *Target Geography*
3. Click *Save*. Email alerts are configured and are sent when a set input occurs in a report.

Users

Multiple FortiRecon accounts can be created for an organization in the *Users* tabs. 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* tab, you can:

- View all user accounts for your organization. See [Viewing user accounts on page 80](#).
- Add new users. See [Adding users on page 80](#).
- Edit existing users. See [Editing users on page 81](#).
- Delete users. See [Deleting users on page 81](#).

Viewing user accounts

You can view all of the current users for your organization on the *Users* tab. User information listed for all users includes:

- Name
- Role
- Email
- Phone Number

To view user accounts:

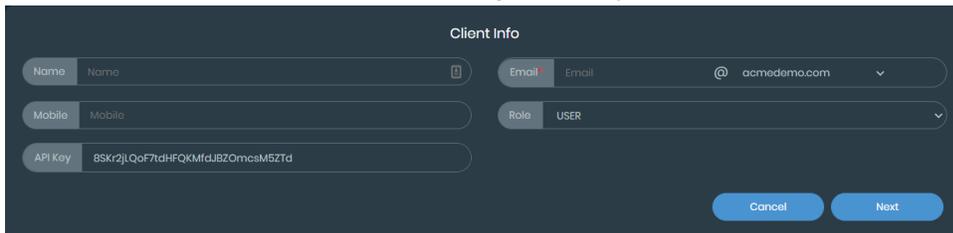
1. Go to *Profile Settings > Users*.
2. Search for keywords:
 - a. In the *Type and hit Enter to Search* box, type a name or email, and press *Enter*.
The user accounts are filtered to display only accounts with the keyword.
 - b. Click the *X* beside the keyword to remove the filter.

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 82](#).

To add a user account:

1. Access *Profile Settings*, and click the *Users* tab. 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: <ul style="list-style-type: none"> • 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* tab. 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.

The screenshot shows the 'Client Info' form with the following fields and values:

- Name: Teddy Tester
- Email: ttester@ocmedemo.com
- Mobile: 004432785
- Role: ADMIN
- API Key: 8Skz2jQof7dhFQcMfQJ8ZomcsM5Ztd
- Active:

Buttons for 'Cancel' and 'Next' are visible at the bottom right.

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.

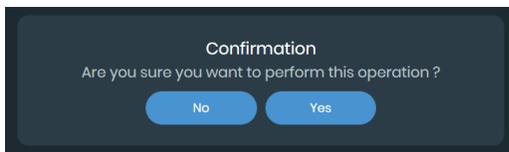
4. Select a new *User Template* from the dropdown, if needed. The *Main Modules*, *Sub Modules*, and *Access* are adjusted to the template's settings.
5. Click *Save*. The user information and access permissions are updated.

Deleting users

Administrators can delete the account of another member on the *Users* tab.

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 80](#)

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

- View available access templates. See [Viewing access templates on page 82](#).
- Add a new access template. See [Adding a template on page 82](#).
- Edit an existing access template. See [Editing a template on page 83](#).

Viewing access templates

You can view the settings assigned to an access template in the *Access Templates* tab. 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

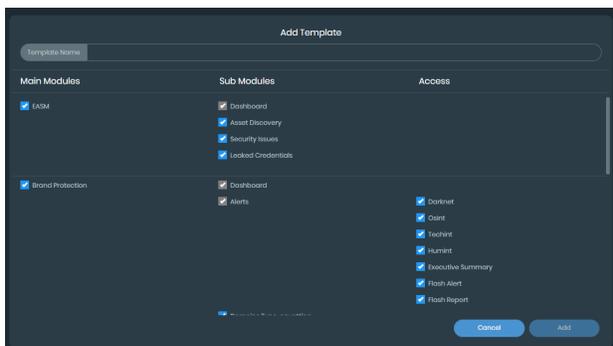
You can create new templates in the *Access Templates* tab, and they can include any of the *Main Modules*, specific *Sub Modules*, and *Access* settings.

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.

Change password

You can change your personal account password. The new password must:

- Contain at least one lower case letter
- Contain at least one upper case letter
- Contain at least one special character
- Be at least 10 characters long

To change your password:

1. Go to *Profile Settings > Change Password*.
2. Enter your existing password in the *Current password* box.
3. Enter the new password in the *New password* box.
4. Enter the new password again in the *Confirm password* box. The *Set Password* button becomes available.
5. Click *Set Password*. Your password is updated.



Passwords entered into *New password* and *Confirm password* boxes must match. The fields are case sensitive. If the passwords do not match, the *Set Password* button remains unavailable.

Downloads

Files downloaded from *EASM*, *Brand Protection*, and *Adversary Centric Intelligence* are saved in the *Downloads* tab. Files are saved in a list with the most recently downloaded files at the top.

From the *Profile Settings > Downloads* tab, you can:

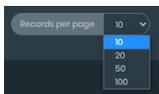
- View all downloads from the past 30 days. See [Viewing downloads on page 84](#).
- Retrieve downloads from the past 30 days. See [Retrieving downloads on page 85](#).
- Delete downloads. See [Deleting downloads on page 85](#).

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* tab.

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.



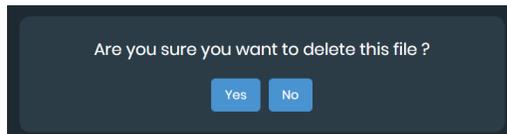
If a file is not finished downloading, an update message is displayed when you hover your mouse over the file. You cannot click the file until it is finished downloading.

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* tab, you can:

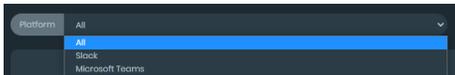
- View the details of existing integrations. See [Viewing integration details on page 85](#).
- Create new integrations. See [Adding integrations on page 86](#).
- Edit existing integrations. See [Editing integrations on page 87](#).
- Disable integrations. See [Disabling integrations on page 87](#).
- Delete integrations. See [Deleting and disabling integrations on page 88](#).

Viewing integration details

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

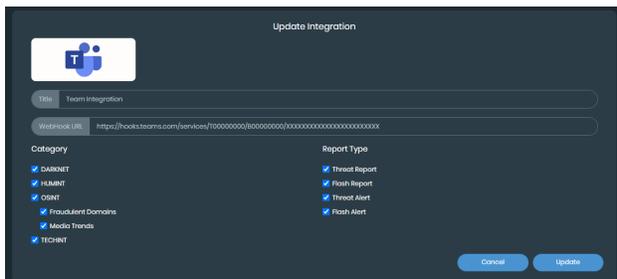
To view the details of an integration:

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

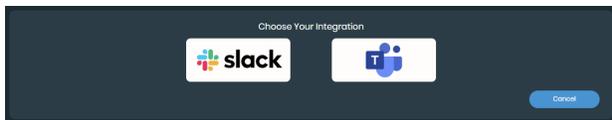
You can add multiple webhook integrations to your account in FortiRecon.



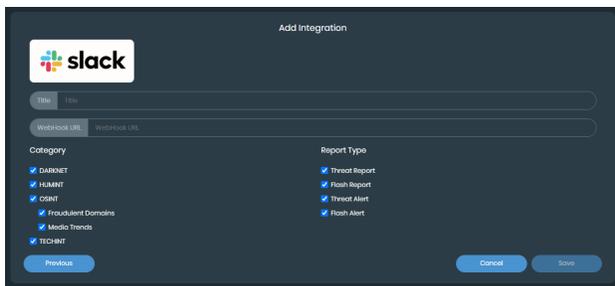
You must retrieve the webhook URL from Microsoft Teams and Slack before adding an integration to FortiRecon. See [Microsoft Teams Webhooks and Connectors](#) and [Slack API Sending messages using Incoming Webhooks](#) for more information.

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.



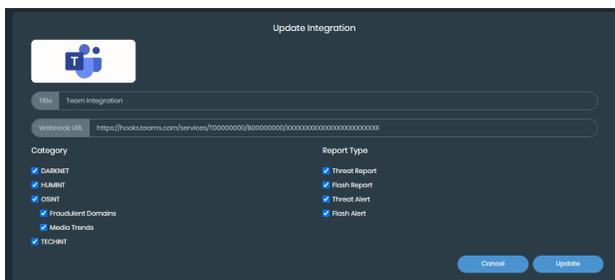
4. Enter the name of the integration in the *Title* text box.
5. Paste the webhook URL from the software into the *WebHook URL* text box.
6. Select the *Category* and *Report Type* fields that you want to include in the integration.
7. Clear any fields that you want to exclude from the integration.
8. Click *Save*. The integration is added.

Editing integrations

You can change the features and details of a webhook integration from the *Integrations* tab.

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.



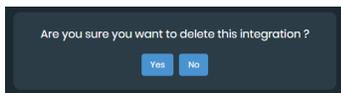
3. Select the toggle again to enable the integration.

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 input your organization's information in the *Seeds* tab to enable FortiRecon to track any malicious activity against your assets or impersonating your assets.

From the *Profile Settings > Seeds* tab, you can:

- View your organization's registered assets. See [Viewing your assets on page 89](#).
- Download a sample Microsoft Excel file to determine the format needed to upload data. See [Downloading a sample data file on page 89](#).
- Upload a Microsoft Excel file to simultaneously upload your organization's data in bulk. See [Uploading a data file on page 90](#).
- Export a global master file containing all of your organization's registered assets. See [Exporting global masters on page 90](#).
- Add, edit, and delete domain names. See [Domains on page 91](#).
- Add, edit, and delete all BIN numbers used by your organization to issue credit, debit, and gift cards. See [Card BIN on page 92](#).
- Add, edit, and delete all mobile applications belonging to your company. See [Owned mobile applications on page 94](#).

Viewing your assets

On the *Seeds* tab, you can view the domain names, card BINs, and mobile apps of your organization that are being monitored by FortiRecon. You can toggle between the following tabs to view your organization's assets:

- Domains
- Card BIN
- Owned Mobile Applications

To view your organization's assets:

1. Go to *Profile Settings > Seeds*.
2. Navigate between asset types by selecting the:
 - *Domains* tab
 - *Card BIN* tab
 - *Owned Mobile Applications* tab
3. Search for assets:
 - Enter a keyword in the *Global Search* box to search simultaneously for *Domains*, *Card BINs*, and *Owned Mobile Applications*.
 - Navigate to one of the tabs, and search for a keyword in the *Search* box to look for entries specific to that asset type.

Downloading a sample data file

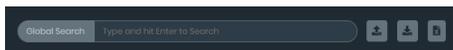
You can use a Microsoft Excel file to upload bulk information to the *Seeds* tab. The Microsoft Excel file requires a specific format, and you can download a sample file to review the needed format.



If you intend to upload data for *Domains*, *Card BIN*, and *Owned Mobile Applications* simultaneously, select the global sample file.

To download a global sample file:

1. Go to *Profile Settings > Seeds*.
2. Select *Download Sample XLS* in the top right.



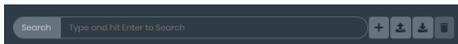
The global sample file is downloaded to your computer.

To download a sample file for a specific entry type:

1. Go to *Profile Settings > Seeds*.
2. Select the entry type you want:
 - *Domains*
 - *Card BIN*

- *Owned Mobile Applications*

3. Select *Download Sample XLS* in the tab.



The sample file is downloaded to your computer.

Uploading a data file

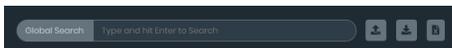
You can upload a Microsoft Excel file of your organization's information to FortiRecon. You can upload information in one global file for all entry types, or you can upload multiple, individual files.



The Microsoft Excel file requires a specific format. See [Downloading a sample data file on page 89](#).

To upload a global sample file:

1. Go to *Profile Settings > Seeds*.
2. Select *Upload XLS* in the top right.

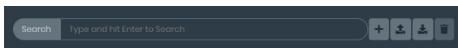


Your computer file explorer is displayed.

3. Select the file and click *Open*. The data entries are displayed in the *Seeds* tabs.

To upload a sample file for a specific entry type:

1. Go to *Profile Settings > Seeds*.
2. Select the entry type you want:
 - *Domains*
 - *Card BIN*
 - *Owned Mobile Applications*
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.

Exporting global masters

You can download a master list in Microsoft Excel format from FortiRecon that contains all domains, card BINs, and owned mobile applications. The file contains three tabs, with each tab dedicated to one of the three *Seeds* tabs.

To download a global master list:

1. Go to *Profile Settings > Seeds*.
2. Click *Export Global Masters*. The master list is downloaded to your computer as a Microsoft Excel file.

Domains

Providing domains allows FortiRecon to monitor for typo-squatting and phishing by actors that may be trying to impersonate your organization. See [Domains Typo-squatting on page 37](#) and [Phishing on page 40](#).

From the *Profile Settings > Seeds > Domains* tab, you can:

- Add new domain names. See [Adding domains on page 91](#).
- Edit existing domain names. See [Editing domains on page 91](#).
- Delete domain names. See [Deleting domains on page 92](#).

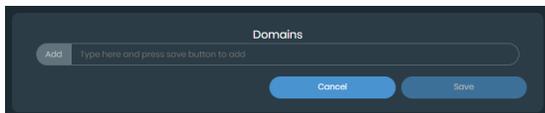
Domains	Created Date	Updated Date	Actions
outlook.com	Apr 02, 2022	Apr 04, 2022	[Edit] [Delete]
acmedema.com	Apr 02, 2022	Apr 04, 2022	[Edit] [Delete]
office.com	Apr 02, 2022	Apr 04, 2022	[Edit] [Delete]

Adding domains

You can add new domains in the *Domains* tab, as needed.

To add a new domain:

1. Go to *Profile Settings > Seeds > Domains*.
2. Click *Add*. The *Domains* dialog is displayed.



3. Enter the domain name in the *Add* text box.
4. Click *Save*. The domain is added.



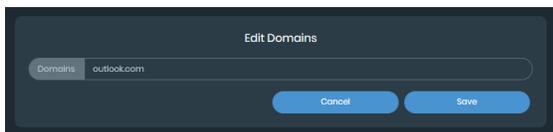
You must include a top-level domain when entering the domain name, such as *.com* or *.org*.

Editing domains

You can edit a pre-existing domain name in the *Domains* tab.

To edit a domain name:

1. Go to *Profile Settings > Seeds > Domains* and find the domain name.
2. Click the edit icon in the *Actions* column. The *Edit Domains* dialog is displayed.



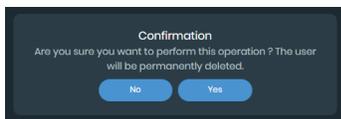
3. Edit the text in the *Domains* text box.
4. Click *Save*. The domain name is changed.

Deleting domains

You can delete domain names from the *Domains* tab. You can delete single domain names or groups of domain names.

To delete a single domain name:

1. Go to *Profile Settings > Seeds > Domains* and find the domain name.
2. Click the delete icon in the *Actions* column. A confirmation message is displayed.



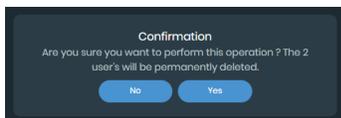
3. Click *Yes*. The domain name is deleted from the list.

To delete multiple domain names:

1. Go to *Profile Settings > Seeds > Domains*.
2. Select the domain names by using one of the following methods:
 - Select the checkbox in the first row to select all domain names, and then clear the checkbox beside any domain names that you want to keep.
 - Select the checkbox beside specific domain names 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 domains.



4. Click *Yes*. The domain names are deleted from the list.

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 58](#).



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 93](#).
- Edit existing card BINs. See [Editing a card BIN on page 93](#).
- Delete existing card BINs. See [Deleting a card BIN on page 94](#).

Card BIN	Created Date	Updated Date	Actions
37348	Apr 02, 2022	Apr 02, 2022	[Edit] [Delete]
48021	Apr 02, 2022	Apr 02, 2022	[Edit] [Delete]
405888	Apr 02, 2022	Apr 02, 2022	[Edit] [Delete]
437551	Apr 02, 2022	Apr 02, 2022	[Edit] [Delete]
374742	Apr 02, 2022	Apr 02, 2022	[Edit] [Delete]

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.

Card BIN

Add

Cancel Save

3. Enter the BIN in the *Add* text box.
4. Click *Save*. The card BIN is added.

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.

Edit Card BIN

Card BIN

Cancel Save

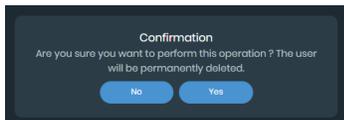
3. Edit the text in the *Card BIN* text box.
4. Click *Save*. The card BIN is edited.

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.



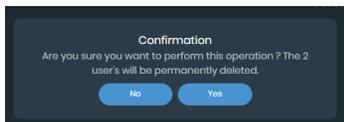
3. Click *Yes*. The BIN is deleted from the list.

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.

Owned mobile applications

Providing app information allows FortiRecon to monitor for rogue mobile apps that are trying to impersonate your organization. See [Rogue Mobile Apps on page 44](#).

From the *Profile Settings > Seeds > Owned Mobile Applications* tab, you can:

- Add new mobile apps. See [Adding an owned mobile application on page 95](#).
- Edit existing mobile apps. See [Editing an owned mobile application on page 95](#).
- Delete mobile apps. See [Deleting an owned mobile application on page 95](#).

A screenshot of the "Owned Mobile Applications" tab in the FortiRecon interface. It shows a table with columns: Application Name, Mobile App Developer, Hosted On, App URL, Created Date, Updated Date, and Actions. There are two rows of data.

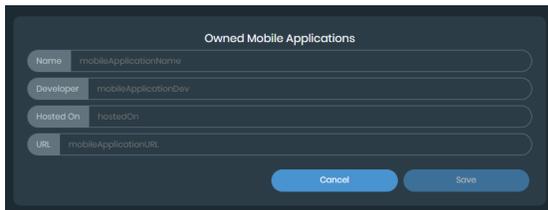
Application Name	Mobile App Developer	Hosted On	App URL	Created Date	Updated Date	Actions
AcmeDemo	App-Dev	Freebase	https://play.google.com/store/apps/details?id=xxxxx	May 13, 2022	May 13, 2022	[Edit] [Delete]
ACME Help	Dev Build	HostMe	https://play.google.com/store/apps/details?id=xxxxxx	May 13, 2022	May 13, 2022	[Edit] [Delete]

Adding an owned mobile application

You can add new apps in the *Owned Mobile Applications* tab, as needed.

To add a new app:

1. Go to *Profile Settings > Seeds > Owned Mobile Applications*.
2. Click *Add*. The *Owned Mobile Applications* dialog is displayed.



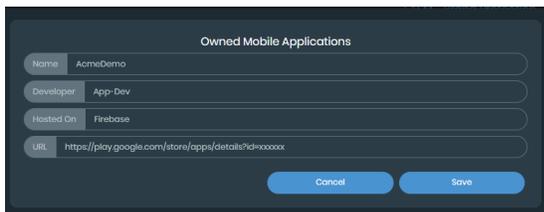
3. Click the text boxes to enter text for *Name*, *Developer*, *Hosted On*, and *URL*.
4. Click *Save*. The app is added.

Editing an owned mobile application

You can edit app information in the *Owned Mobile Applications* tab.

To edit an app:

1. Go to *Profile Settings > Seeds > Owned Mobile Applications* and find the app.
2. Click the edit icon in the *Actions* column. The *Owned Mobile Applications* dialog is displayed.



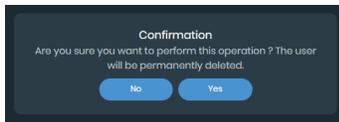
3. Edit the *Name*, *Developer*, *Hosted On*, or *URL* boxes.
4. Click *Save*. The app information is edited.

Deleting an owned mobile application

You can delete apps from the *Owned Mobile Applications* tab. You can delete a single app or groups of apps.

To delete a single app:

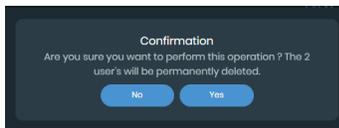
1. Go to *Profile Settings > Seeds > Owned Mobile Applications* and find the app.
2. Click the delete icon in the *Actions* column. A confirmation message is displayed.



3. Click **Yes**. The app is deleted from the list.

To delete multiple apps:

1. Go to *Profile Settings > Seeds > Owned Mobile Apps*.
2. Select the apps by using one of the following methods:
 - Select the checkbox in the first row to select all apps, and clear the checkbox beside any apps that you want to keep.
 - Select the checkbox beside specific apps 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 apps.



4. Click **Yes**. The apps are deleted from the list.



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