
Configure Intrusion Detection and Prevention

 For supported software information, click [here](#).

A security vulnerability is an unintended flaw that allows malicious users to surreptitiously attack a network. Attackers can exploit such vulnerabilities to break into and damage the network by changing, destroying, or stealing secured or confidential information, or by installing malware.

To protect a network against security vulnerabilities, the Versa Operating System™ (VOS™) unified threat management (UTM) capabilities include intrusion detection and prevention (IDP). IDP is a preemptive approach to network security that identifies potential threats and responds to them based on user-defined policy. IDP comprises two components:

- Intrusion detection system (IDS) is the process of examining the network for indications of vulnerabilities and for detecting inappropriate or anomalous activity.
- Intrusion prevention system (IPS) is the process of stopping vulnerabilities by responding to inappropriate or anomalous activity. Responses can include dropping data packets and disconnecting connections that are transmitting unauthorized data.

Security analysts can use network IDS systems to examine network traffic and the network protocols, applications, and operating systems running on the network. To inspect and process the desired traffic, an IDS system can be placed inline. However, they are commonly connected to a switch's spanning port or attached to a hub, or they make use of network taps.

You commonly place an IPS system at the perimeter of a corporate network.

IPS performs the following types of vulnerability detection to help prevent attacks, including zero-day attacks such as worms or viruses:

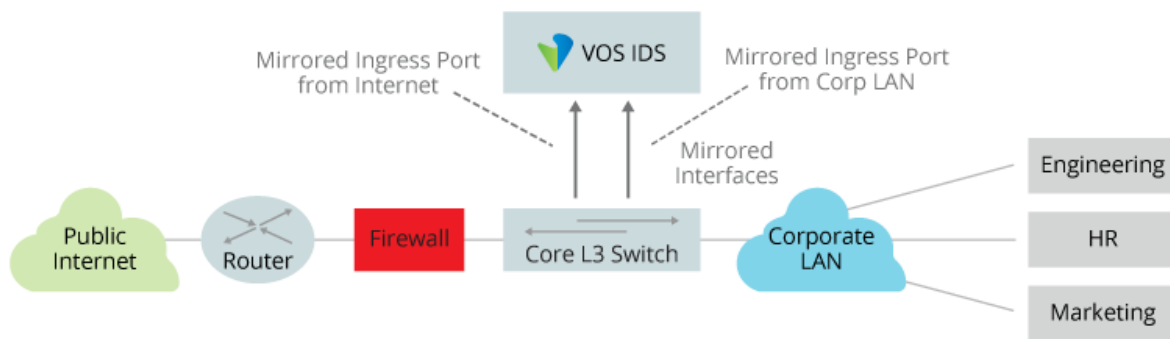
- Signature-based detection—Signatures are a set of rules that a vulnerability profile uses to detect intrusive activities. With signature-based detection, a security profile compares a software or application pattern with a database of signatures, identifying malicious activity by matching patterns to those in the database. Versa security packs (SPacks) provide a set of predefined signatures, and you can also create custom signatures.
- Anomaly detection—Anomaly detection monitors a network for unusual events or trends. You configure the vulnerability profile that compares an observed event with the baseline of the normal traffic. Anomaly detection detects patterns that are normally not present in the traffic, so it is useful for detecting new attacks.

Implementing a properly tuned and managed IPS solution at all corporate ingress and egress points helps to ensure that new and previously identified threats are dropped at the perimeter, while allowing legitimate traffic to pass.

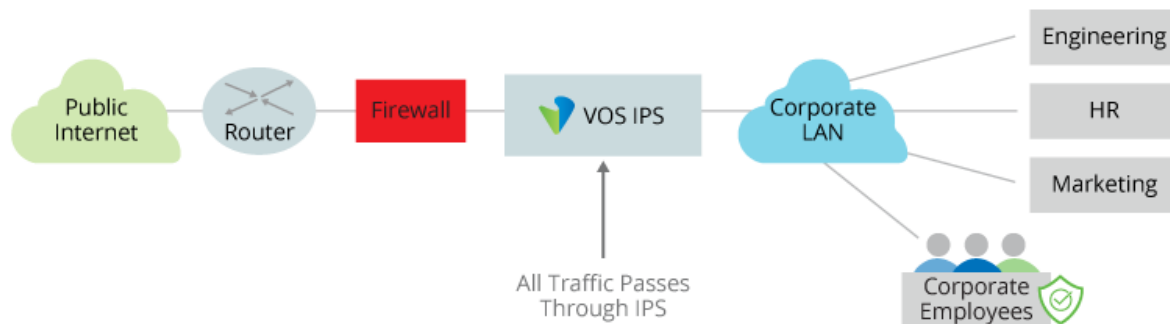
Having an IPS deployment at the edges of the network provides the preventative measures and control needed to combat new and existing threats, and including an IDS inside the firewall and at critical internal network nodes provides visibility into internal activity.

The following figures illustrate how an IDS/IPS solution can be deployed within an enterprise:

The first figure illustrates how traffic travels between an enterprise corporate network and the public internet. An edge router, a firewall, and a Layer 3 switch are positioned between the internet and the corporate network. The switch connects to a VOS device that is configured as an IDS security device. This switch has four ports, two regular network ports (one on the WAN side and one on the LAN side) and two mirror ports that connect to the VOS device. The two mirror ports send copies of the packets they receive to the VOS device for IDS processing and analysis. The green mirror port (on the left) mirrors packets received from the public internet, and the blue mirror port (on the right) mirrors packets received from the corporate LAN. Having two mirror ports allows the Layer 3 switch to process incoming and outgoing data streams concurrently on separate paths, thus ensuring that all traffic flowing across the network is monitored by the VOS IDS capability. In this type of deployment, a keepalive session is maintained between the Layer 3 switch and the VOS device to prevent network outages.



In the following figure, traffic between an enterprise corporate network and the public internet passes through a VOS device that is configured as an IPS security device. The IPS system analyzes data traffic for vulnerabilities before the traffic is forwarded towards its destination. In this scenario, if the VOS device goes down and the IPS system is no longer available, a network outage can occur.



To use IDP, you configure IDS and IPS vulnerability profiles, as described in this article. It is recommended that you use the predefined vulnerability profiles, or you can create custom vulnerability profiles. You then associate the vulnerability profiles with a next-generation firewall (NGFW) security profile (also called an access policy profile) in an NGFW policy, as described in [Configure a Security Access Policy](#). In the policy you define the traffic to match based on various parameters, such as zones and applications, and you configure the policy to enforce the action defined in vulnerability profile.

This article discusses how to configure and use IDP:

- Install the Versa IDP signature database
- Use predefined vulnerability profiles
- Create custom vulnerability profiles
- View vulnerability statistics and logs

Install the Versa IDP Database

The Versa security research team provides an IDP signature database, and provides regular updates to the database in security packages (SPacks). To obtain the current signature database, download the latest SPack. For more information, see [Use Security Packages](#).

Use Predefined Vulnerability Profiles

View Predefined Vulnerability Profiles

Versa provides a set of predefined vulnerability profiles, including the Versa Recommended Profile, which detect vulnerabilities against servers and clients.

To view the predefined profiles:

1. In Director view:
 - a. Select the Administration tab in the top menu bar.
 - b. Select Appliance in the left menu bar.
 - c. Select an appliance in the main pane. The view changes to Appliance view.

The screenshot shows the Director View interface with the Administration tab selected. The left sidebar contains a menu with 'Appliances' highlighted. The main pane displays a table of appliances.

	Name	Mgmt. Address	Tags	Type	Service Start Time	Software Versio	Organizations
<input type="checkbox"/>	CASB2-DEVICE	10.0.0.24		Branch	Thu, Sep 21 2023, 16:07	22.1.2-GA	Tenant1
<input type="checkbox"/>	CASB-DEVICE	10.0.0.18		Branch	Thu, Oct 19 2023, 11:03	22.1.2-GA	Tenant1
<input type="checkbox"/>	SDLAN-Branch1	10.0.0.12		Branch	Wed, Apr 17 2024, 14:22	21.2.3-GA	Tenant7,Tenant8,Tena...
<input type="checkbox"/>	SDLAN-Branch2	10.0.0.8		Branch	Thu, Mar 23 2023, 22:07	21.3.3-GA	Tenant7,Tenant8,Tena...
<input type="checkbox"/>	SDWAN-Branch3	10.0.0.14		Branch	Tue, Oct 03 2023, 08:45	22.1.3-GA	
<input type="checkbox"/>	SDWAN-Branch4	10.0.0.16		Branch	Wed, Jan 17 2024, 13:29	22.1.3-GA	Tenant2,Tenant7,Tena...

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2. Select the Configuration tab in the top menu bar.
3. Select Objects & Connectors > Objects > Predefined > Vulnerability in the left menu bar. The main pane lists the predefined vulnerability profiles, which are explained in the following table.

The screenshot shows the Director View interface with the Configuration tab selected. The left sidebar contains a menu with 'Vulnerability' highlighted. The main pane displays a table of vulnerability profiles.

Name	Rule ID	Name	Direction	OS	Applications	Severity	Act
All Anomaly Rules	1	Profile to load all Anom...					
All Attack Rules	1	Profile to load all Attac...					
Client Protection	1	Client-Side Attack Det...	client				
Database Profile	1	Oracle Database Server			oracle		
ICS Profile	1	ics reject			ics		
IOT Profile	1	iot reject			iot		
Lateral Movement Det...	1	Lateral Movement Det...					

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Vulnerability Profile	Description
All Anomaly Rules	Load all the anomaly signatures. Anomaly rules have threshold values; to change anomaly, see Configure Security Scanners .
All Attack Rules	Load all attack signatures.
Client Protection	Load all client-side attacks.

Database Profile	Load the Oracle database server vulnerability signatures.
ICS Profile	Load the industrial control system (ICS) vulnerability signatures.
Lateral Movement Detection	Detect post-exploitation activities in Windows OS.
Linux OS Profile	Detect all attacks specific to Linux OS.
Mac OS Profile	Detect all attacks specific to Mac OS.
Malware Profile	Detect all antivirus attacks.
Server Protection	Detect server-side attacks.
Windows OS Profile	Detect attacks specific to all Windows OSs.
Versa Branch Profile	Enable rules to detect vulnerabilities against servers and client, but by using less n common vulnerability scoring system (CVSS) range 6 through 10 vulnerabilities fo through 10 for the last 10 years. The Versa Branch Profile requires a minimum of f
Versa Recommended Profile	Enable rules to detect vulnerabilities against servers and clients. These profiles co vulnerabilities for the last 10 years and critical vulnerabilities older than 10 years. T requires a minimum of 16 GB of RAM. It is recommended that you use the Versa-l

View Filter Values for Predefined Vulnerability Profiles

Each predefined vulnerability rule consists of a rule or a set of rules that define filter values such as action, CVSS score, and rule type. To view the filter values:

1. In Director view:
 - a. Select the Administration tab in the top menu bar.
 - b. Select Appliance in the left menu bar
 - c. Select an appliance in the main pane. The view changes to Appliance view.
2. Select the Configuration tab in the top menu bar.
3. Select Objects & Connectors > Objects > Predefined > Vulnerability in the left menu bar.

The screenshot shows the Versa Networks Director interface. At the top, there are tabs for Director View, Appliance View (selected), and Template View. Below this, there are tabs for Monitor, Analytics, Configuration (selected), and Administration. The main pane displays a list of vulnerability profiles under the 'Vulnerability' tab. The list has columns for Name, Rule ID, Name, Direction, OS, Applications, Severity, and Action. The profiles listed are: All Anomaly Rules, All Attack Rules, Client Protection, Database Profile, ICS Profile, IOT Profile, and Lateral Movement Detection. The 'All Anomaly Rules' profile is selected, and its details are shown in the main pane.

Name	Rule ID	Name	Direction	OS	Applications	Severity	Action
All Anomaly Rules	1	Profile to load all Anom...					
All Attack Rules	1	Profile to load all Attac...					
Client Protection	1	Client-Side Attack Det...	client				
Database Profile	1	Oracle Database Server			oracle		
ICS Profile	1	ics reject			ics		
IOT Profile	1	iot reject			iot		
Lateral Movement Det...	1	Lateral Movement Det...					

4. Select a Predefined Vulnerability profile in the main pane.
5. Select the Rules tab, and then select a rule to view the profile's filter values.

The screenshot shows the 'Edit Vulnerability Profile - All Anomaly Rules' dialog box. It has a title bar with a close button. Inside, there are fields for Name (All Anomaly Rules) and Profile ID (12). Below these fields, there is a tab labeled 'Rules' which is selected. The 'Rules' tab shows a list of rules with columns for Name, Direction, and Applications. The rule 'Profile to load all Anomaly Signatures' is listed. There are also buttons for delete, add, and filter, and a pagination control showing 1 of 25 items.

Name	Direction	Applications
Profile to load all Anomaly Signatures		

Modify a Predefined Vulnerability Profile

To modify the parameters in a predefined vulnerability profile, you create an override profile:

1. In Director view:
 - a. Select the Administration tab in the top menu bar.
 - b. Select Appliance in the left menu bar.
 - c. Select an appliance in the main pane. The view changes to Appliance view.

Director View | Appliance View | Template View

Monitor | Configuration | Workflows | **Administration** | Analytics

① You are currently in Director View

Export All Records | Export

Search

Organizations

Appliances

> Connectors

> System

> VMS Services

Scheduled Tasks

> Notification Configuration

> Entitlement Manager

> Director User Management

> Inventory

> SDWAN

Appliances (0/9)

Search | Appliance Tags | Shell | Sync-to | Sync-from | Compare | + | - | More

	Name	Mgmt. Address	Tags	Type	Service Start Time	Software Versio	Organizations
<input type="checkbox"/>	CASB2-DEVICE	10.0.0.24		Branch	Thu, Sep 21 2023, 16:07	22.1.2-GA	Tenant1
<input type="checkbox"/>	CASB-DEVICE	10.0.0.18		Branch	Thu, Oct 19 2023, 11:03	22.1.2-GA	Tenant1
<input type="checkbox"/>	SDLAN-Branch1	10.0.0.12		Branch	Wed, Apr 17 2024, 14:22	21.2.3-GA	Tenant7,Tenant8,Tena...
<input type="checkbox"/>	SDLAN-Branch2	10.0.0.8		Branch	Thu, Mar 23 2023, 22:07	21.3.3-GA	Tenant7,Tenant8,Tena...
<input type="checkbox"/>	SDWAN-Branch3	10.0.0.14		Branch	Tue, Oct 03 2023, 08:45	22.1.3-GA	
<input type="checkbox"/>	SDWAN-Branch4	10.0.0.16		Branch	Wed, Jan 17 2024, 13:29	22.1.3-GA	Tenant2,Tenant7,Tena...

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2. Select the Configuration tab in the top menu bar.
3. Select Services > Next-Gen Firewall > Security > Profiles > Predefined Vulnerability Profile Override in the left menu bar.

Director View | **Appliance View** | Template View

Monitor | Analytics | **Configuration** | Administration

Appliance: CASB-DEVICE Organization: provider-org

① You are currently in Appliance View

Build SYNC: UNKNOWN

Networking | Services | Objects & Connectors | Others

Search

File Filtering

Antivirus

Vulnerability

Predefined Vuln...

ATP

CASB

> DLP

HTTP Header Pr...

Profile Groups

Search

+ Add | Delete | Clone

	Name	Exception Count	Rule Action	LEF Profile
No Predefined Vulnerability Profile Override Added				

Add

4. Click the **+** Add icon. In the Add Predefined Vulnerability Profile Override popup window, enter information for the following fields.

Add Predefined Vulnerability Profile Override

Name *

Description

Tags

LEF Profile

--Select--

☐ Default Profile

Rule

Exceptions

Action

--Select--

☒ Packet Capture

Pre-window

1

Post-window

1

OK

Cancel

Field	Description
Name (Required)	Enter a name for the modified vulnerability profile.
Description	Enter a text description for the vulnerability profile.
Tags	Enter a keyword or phrase that allows you to filter the profile name. This is useful when you have many profiles that are tagged with a particular keyword.
LEF Profile	Select a log export functionality (LEF) profile to use to record logs for the profile. For information about configuring a LEF profile, see Configure Log Export Functionality . For information about associating a LEF profile with a vulnerability profile, see Vulnerability Profile Configuration .
Default Profile	Select to send logs to the default LEF profile. For information about configuring a default LEF profile, see Configure Log Export Functionality .

- Select the Rule tab to configure a vulnerability profile rule. In the popup window, enter information for the following fields.

Rule

Exceptions

Action

--Select--

☒ Packet Capture

Pre-window

1


Post-window

1

OK

Cancel

Field	Description
Action	Select an action. This action overrides the action in the predefined vulnerability profile.
Packet Capture (Group of Fields)	Click to enable packet capture. Packet capture information is automatically sent to the Analyzer and you can download it. For more information, see View Packet Capture Logs , below.
◦ Pre-window	Enter the number of packets immediately preceding the attacked packet that you want to capture.
◦ Post-window	Enter the number of packets immediately following the attacked packet that you want to capture.

- Select the Exceptions tab to configure a vulnerability profile exception. Click the  Add icon, and in the Add Exception popup window, enter information for the following fields.

Add Exception

Threat ID *

Description

Tags

☒ Enable

Signatures

Exception Details

Q Search

<

1


>

25

<input type="checkbox"/>	ID	Description
<input type="checkbox"/>	50000990	Schneider Electric Modicon M580 UMAS DOS First Read
<input type="checkbox"/>	50001146	FlowBit: Microsoft Exchange CVE-2021-26858 Arbitrary File Write

OK

Cancel

Field	Description
Threat ID (Required)	Enter the threat ID.
Description	Enter a text description for the threat.
Tags	Enter a keyword or phrase that allows you to filter the threat exception. This is useful if you want to view those that are tagged with a particular keyword.
Signatures (Tab)	Select the vulnerability signatures to add to the vulnerability profiles exception rule.
Exception Details (Tab)	
<ul style="list-style-type: none"> Exempt IP Address 	Click the  Add icon to enter IP addresses that are exempt from the vulnerability rule.
<ul style="list-style-type: none"> Threshold (Group of fields) 	Select the threshold application on the exempted IP address: <ul style="list-style-type: none"> Track By—Select the threshold tracking based on either source address, destination address, or both addresses.

	<ul style="list-style-type: none"> ◦ Interval—Enter an interval, in seconds. ◦ Threshold—Enter the number of hits per interval based on the traffic direction.
<ul style="list-style-type: none"> ◦ Action 	<p>Select the action to take:</p> <ul style="list-style-type: none"> ◦ Allow ◦ Alert ◦ Drop packet ◦ Drop session ◦ Reject ◦ Reset client ◦ Reset server
<ul style="list-style-type: none"> ◦ Packet Capture (Group of Fields) 	<p>Click to enable packet capture:</p> <ul style="list-style-type: none"> ◦ Pre-window—Enter the number of packets immediately preceding the attacked ◦ Post-window—Enter the number of packets immediately following the attacked

7. Click OK.

After you override a predefined vulnerable profile, you must re-apply it to the security access policy rule, as described in the [Associate Vulnerability Profiles with Access Policy Profiles](#) section, below.

Create Custom Vulnerability Profiles

1. In Director view:
 - a. Select the Administration tab in the top menu bar.
 - b. Select Appliance in the left menu bar.
 - c. Select an appliance in the main pane. The view changes to Appliance view.

The screenshot shows the 'Administration' tab in the Director View. The left sidebar has 'Appliances' highlighted. The main area displays a table of appliances with the following data:

	Name	Mgmt. Address	Tags	Type	Service Start Time	Software Versio	Organizations
<input type="checkbox"/>	CASB2-DEVICE	10.0.0.24		Branch	Thu, Sep 21 2023, 16:07	22.1.2-GA	Tenant1
<input type="checkbox"/>	CASB-DEVICE	10.0.0.18		Branch	Thu, Oct 19 2023, 11:03	22.1.2-GA	Tenant1
<input type="checkbox"/>	SDLAN-Branch1	10.0.0.12		Branch	Wed, Apr 17 2024, 14:22	21.2.3-GA	Tenant7,Tenant8,Tena...
<input type="checkbox"/>	SDLAN-Branch2	10.0.0.8		Branch	Thu, Mar 23 2023, 22:07	21.3.3-GA	Tenant7,Tenant8,Tena...
<input type="checkbox"/>	SDWAN-Branch3	10.0.0.14		Branch	Tue, Oct 03 2023, 08:45	22.1.3-GA	
<input type="checkbox"/>	SDWAN-Branch4	10.0.0.16		Branch	Wed, Jan 17 2024, 13:29	22.1.3-GA	Tenant2,Tenant7,Tena...

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2. Select the Configuration tab in the top menu bar.
3. Select Services > Next Gen Firewall > Security > Profiles > Vulnerability in the left menu bar
4. Click the Add icon to create a new vulnerability profile.

The screenshot shows the 'Configuration' tab in the Director View. The left sidebar has 'Vulnerability' highlighted. The main area shows a table with columns: Name, Rule Count, Exception Count, Name, Direction, Action, and Severity. A message states 'No Vulnerability Profile Added' with an 'Add' button. The '+ Add' button in the top right of the table area is highlighted with a red box.

5. In the Add Vulnerability Profile popup window, enter information for the following fields.

Add Vulnerability Profile

Name *

Description

Tags

LEF Profile

--Select--

☐ Default Profile

Rule

Exceptions

+

1


25

<input type="checkbox"/>	Name	Severity	OS	Product	Application	A
No Rule Added						

OK

Cancel

Field	Description
Name (Required)	Enter a name for the vulnerability profile.
Description	Enter a text description for the vulnerability profile.
Tags	Enter a keyword or phrase that allows you to filter the profile name. This is useful when you have many profiles that are tagged with a particular keyword.
LEF Profile	Select a log export functionality (LEF) profile to use to record logs for the vulnerability profile. For more information, see Configure Log Export Functionality .
Default Profile	Click to send logs to the default LEF profile. For information about configuring a default LEF profile, see Configure Log Export Functionality .

- Select the Rule tab to configure a vulnerability profile rule. Click the  Add icon, and in the Add Rule popup window, enter information for the following fields. You can add one or more rules in a single vulnerability profile. After you have created a rule, you can modify and save it without altering the functionality of the existing vulnerability profile.

Add Rule

Name *

Description

Tags

CVE Year

+

CVE Year Not Configured

Signature Set

+

Signature Set Not Configured

☒

Enable

General

OS/Product

Application

Reference/Severity

Enforce

Confidence

+

Confidence Not Configured

Class Type

+

Class Type Not Configured

Direction

+

Direction Not Configured

Rule Type

+

Rule Type Not Configured

Action Filter

+

Action Filter Not Configured


CVSS Score







+







CVSS Score Not Configured

OK


Cancel

Field	Description
Name (Required)	Enter a name for the vulnerability profile rule.
Description	Enter a text description for the vulnerability profile rule.
Tags	Enter a keyword or phrase that allows you to filter the profile rule name. This is useful when you have many rules and those that are tagged with a particular keyword.
CVE Year	Click the  Add icon and select the common vulnerabilities and exposures (CVE) year. The rule is added to the database and identifies the attacks. For example, select 2016 to block attacks for CVE 2016-0000.

Signature Set	Click the  Add icon and select predefined, user-defined, or both types of signatures.
Enable	Click to enable the vulnerability profile rule.
General (Tab)	Configure general parameters for signatures to match.
<ul style="list-style-type: none"> Confidence 	<p>Click the  Add icon and select the confidence level to match. Confidence indicates the vulnerability. In certain cases, Versa has deliberately kept confidence levels lower to mitigate performance concerns. Signatures match if the confidence level is greater than or equal to the value.</p> <p><i>Value:</i> 0 through 9, Unspecified. The higher the value, the higher is the confidence. For example, 0 is the lowest. It is recommended to choose a signature value from 6 through 9.</p>
<ul style="list-style-type: none"> Class Type 	Click the  Add icon and select a class type to match.
<ul style="list-style-type: none"> Direction 	<p>Click the  Add icon and select the traffic direction for applying the rule to signatures:</p> <ul style="list-style-type: none"> Both Client Server
<ul style="list-style-type: none"> Rule Type 	<p>Click the  Add icon and select a rule type to match:</p> <ul style="list-style-type: none"> All rules Anomaly rules Signature rules
<ul style="list-style-type: none"> Action Filter 	<p>Click the  Add icon and select the action to take if the signatures match the rule:</p> <ul style="list-style-type: none"> Alert

	<ul style="list-style-type: none"> ◦ Drop session ◦ Reject
◦ CVSS Score	Click the  Add icon and select the CVSS score for the signatures to match.
OS/Product (Tab)	Configure operating system and product parameters for signatures to match.
◦ OS Name (Required)	Select the name of the operating system to match and click the  Add icon.
◦ OS Version	Select the version of the operating system to match and click the  Add icon.
◦ Product Name (Required)	Select the name of the product to match and click the  Add icon.
◦ Product Version	Select the version of the product to match and click the  Add icon.
Application (Tab)	Configure application for signatures to match.
◦ Applications	Click the  Add icon and select the application to match.
Reference/Severity (Tab)	
◦ Reference Type (Required)	Select and use signatures that match a specific reference type, as specified in the database reference type to the rule.
◦ Reference Value	Select and use signatures that match a specific reference value, as specified in the database reference value to the rule.
◦ Severity	Click a severity to limit signatures to those that match that severity type: <ul style="list-style-type: none"> ◦ Any

	<ul style="list-style-type: none"> ◦ Critical ◦ High ◦ Informational ◦ Low ◦ Medium ◦ Unspecified
Enforce (Tab)	
<ul style="list-style-type: none"> ◦ Action 	<p>Select an action to take on matching traffic. The action applies to both predefined and custom actions.</p> <ul style="list-style-type: none"> ◦ Default ◦ Predefined <ul style="list-style-type: none"> ▪ Allow ▪ Alert ▪ Drop packet ▪ Drop session ▪ Reject ▪ Reset client ▪ Reset server ◦ Predefined Persistent <ul style="list-style-type: none"> ▪ Versa action block SIP ▪ Versa action block SP ▪ Versa action block DIP ▪ Versa action block DP ▪ Versa action block SIP SP ▪ Versa action block DIP DP ▪ Versa action block SIP SP DIP DP ▪ Versa action block SIP SP DIP DP Protocol
<ul style="list-style-type: none"> ◦ Packet Capture (Group of Fields) 	<p>Click to enable packet capture:</p> <ul style="list-style-type: none"> ◦ Pre-window—Enter the number of packets immediately preceding the attacked packet. ◦ Post-window—Enter the number of packets immediately following the attacked packet.

7. Select the Exceptions tab to configure a vulnerability profile exception. Click the  Add icon, and in the Add

https://docs.versa-networks.com/Secure_SD-WAN/01_Configuration_from_Director/Security_Configuration/Configure_Intrusi...

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Exception popup window, enter information for the following fields.

Add Exception

Threat ID *

Description

Tags

☒ Enable

Signatures

Exception Details

Predefined

User Defined

Q Search

1

>


25

<input type="checkbox"/>	ID	Description
<input type="checkbox"/>	50000990	Schneider Electric Modicon M580 UMAS DOS First Read
<input type="checkbox"/>	50001146	FlowBit: Microsoft Exchange CVE-2021-26858 Arbitrary File Write

OK

Cancel

Field	Description
Threat ID (Required)	Enter a name for the threat ID.
Description	Enter a text description for the threat ID.
Tags	Enter a keyword or phrase that allows you to filter the threat ID. This is useful when y those that are tagged with a particular keyword.
Enable	Click to enable the exception.
Signatures (Tab)	Select the predefined or custom vulnerability signatures to add in the vulnerability pr
◦ Predefined (Tab)	Select the predefined vulnerability signatures to add in the vulnerability profiles exce
◦ User-defined (Tab)	Select the custom vulnerability signatures to add in the vulnerability profiles exceptio
Exception Details (Tab)	

<ul style="list-style-type: none"> ◦ Exempt IP Address 	<p>Click the  Add icon and enter IP addresses to exempt from the vulnerability rule.</p>
<ul style="list-style-type: none"> ◦ Threshold (Group of Fields) 	<p>Configure the thresholds for the exempted IP address:</p> <ul style="list-style-type: none"> ◦ Track By—Select how to track the IP address: <ul style="list-style-type: none"> ▪ Destination address ▪ Source address ▪ Source and destination addresses ◦ Interval—Enter a time interval, in seconds. ◦ Threshold—Enter the number of hits per interval based on the traffic direction.
<ul style="list-style-type: none"> ◦ Action 	<p>Select the action to take:</p> <ul style="list-style-type: none"> ◦ Predefined <ul style="list-style-type: none"> ▪ Allow ▪ Alert ▪ Drop packet ▪ Drop session ▪ Reject ▪ Reset client ▪ Reset server
<ul style="list-style-type: none"> ◦ Packet Capture 	<p>Click to enable packet capture:</p> <ul style="list-style-type: none"> ◦ Pre-window (Required)—Enter the number of packets immediately preceding the attack. ◦ Post-window—Enter the number of packets immediately following the attacked packet.

8. Click OK.

Associate Vulnerability Profiles with Access Policy Profiles

To perform intrusion detection and prevention on incoming traffic, you associate a vulnerability profile with an access policy:

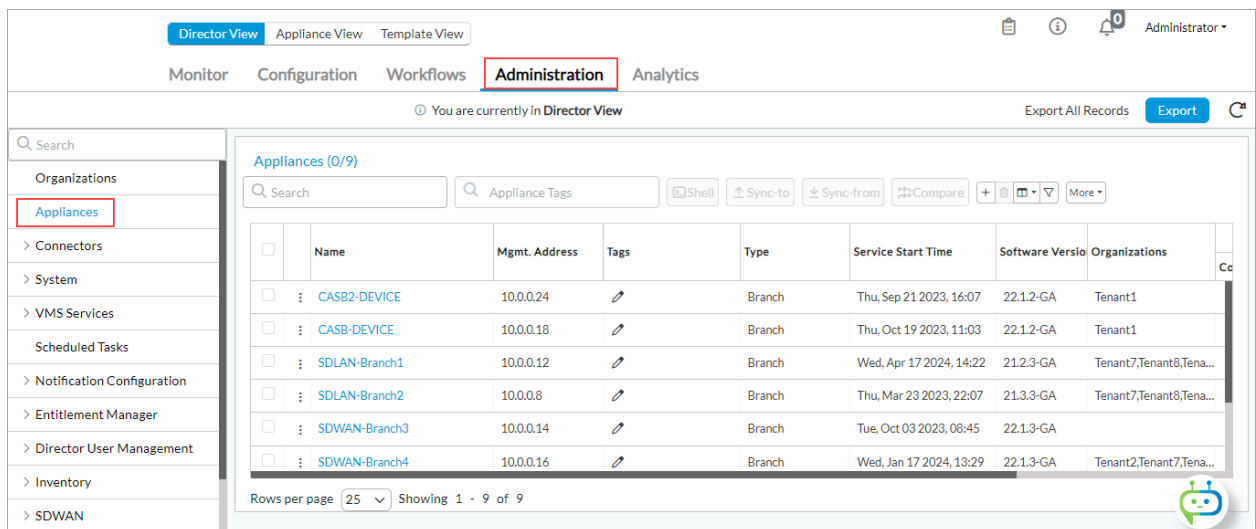
1. In Director view:

https://docs.versa-networks.com/Secure_SD-WAN/01_Configuration_from_Director/Security_Configuration/Configure_Intrusi...

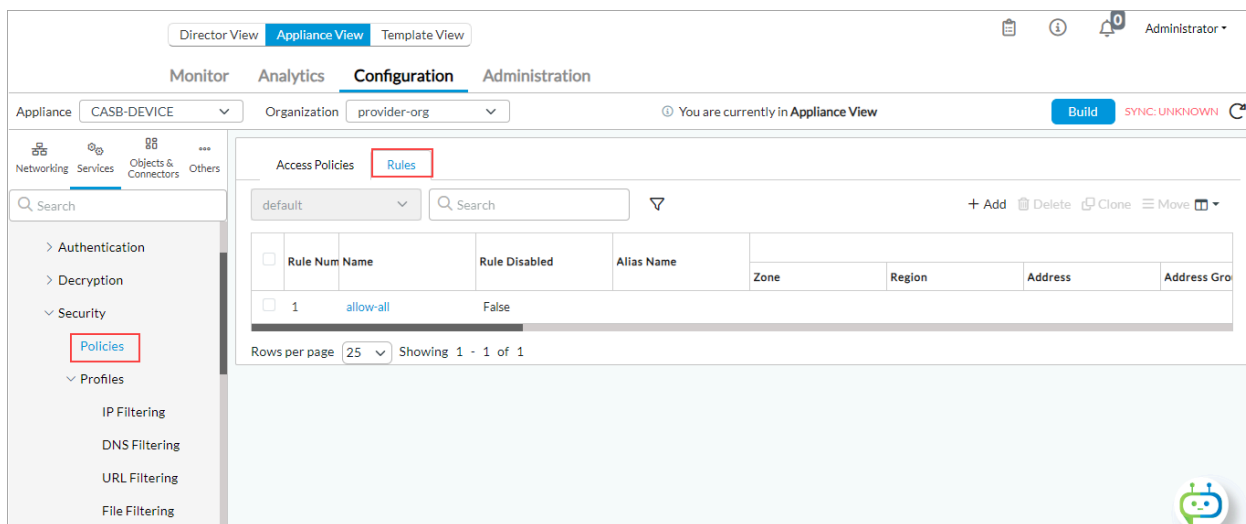
Updated: Wed, 23 Oct 2024 08:18:09 GMT

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- a. Select the Administration tab in the top menu bar.
- b. Select Appliance in the left menu bar.
- c. Select an appliance in the main pane. The view changes to Appliance view.



2. Select Configuration in the top menu bar.
3. Select Services > Next Gen Firewall > Security > Policies in the left menu bar.
4. Click the Rules tab to display the access policy rules.



5. Select the desired access policy rule. The Add Rule popup window displays.
6. Select the Enforce tab.
 - a. In the Actions section, select Apply Security Profile. When you select this field, the Profiles section, on the lower part of the popup window, is then selected.
 - b. Click Vulnerability and select the vulnerability profile to associate with the security access policy rule. The drop-down includes both predefined and custom vulnerability profiles.

- c. If you select a predefined vulnerability profile, the Predefined Vulnerability Profile Override field is selected, and you must select an override profile. For more information, see [Modify a Predefined Vulnerability Profile](#), above.
 - d. Click OK.
7. Check the compilation state of the vulnerability profile. For more information, see [View Signature Compilation Status and Loaded Signatures](#).

To disable the vulnerability profile for an access profile, unselect the Vulnerability field.

For more information about access policies, see [Configure a Security Access Policy](#).

Configure Custom Vulnerability IPS Signatures

You can configure a custom vulnerability IPS signature that includes with both predefined and custom signatures. A VOS device scans the network traffic for both predefined and custom vulnerabilities and enforces the configured security action if a match is found.

You can import and use your own custom IPS signatures. To do this, upload the signatures to the Director node and then push the IDS signatures to any VOS device that is managed by the Director node. Then, you can enable and configure a vulnerability profile that includes the custom IPS signature.

Create Custom IPS Signatures

When you create custom IPS signatures, they must be in the snort rule format. For more information, see www.snort.org

https://docs.versa-networks.com/Secure_SD-WAN/01_Configuration_from_Director/Security_Configuration/Configure_Intrusi...

Updated: Wed, 23 Oct 2024 08:18:09 GMT

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and the documentation at <https://suricata.readthedocs.io>.

The following is an example of a snort rule:

```
alert tcp $EXTERNAL_NET any -> $HOME_NET $HTTP_PORTS (msg:"Directory Traversal"; flow:to_server;  
content:"GET"; depth:3; nocase; http_method; content:"|2e 2e 5c|"; http_uri; classtype:web-application-  
attack; sid:1910000001; )
```

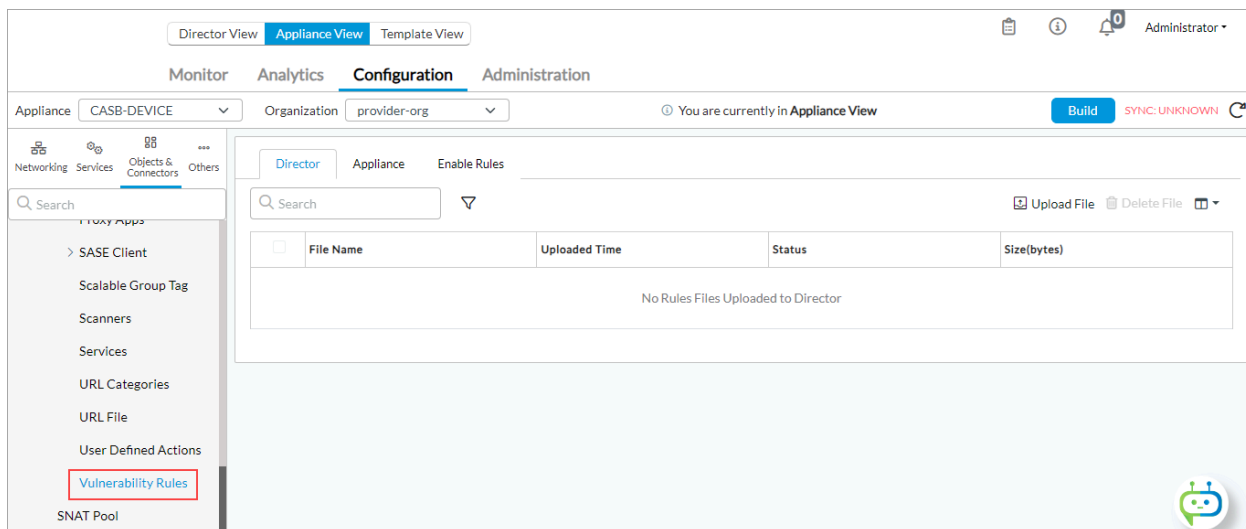
Currently, VOS devices do not support the following keywords in custom signatures: hash, protected_content, http_encode, and byte_math.


It is recommended that a custom signature be in the SID range 4293000000 through 4294000000.

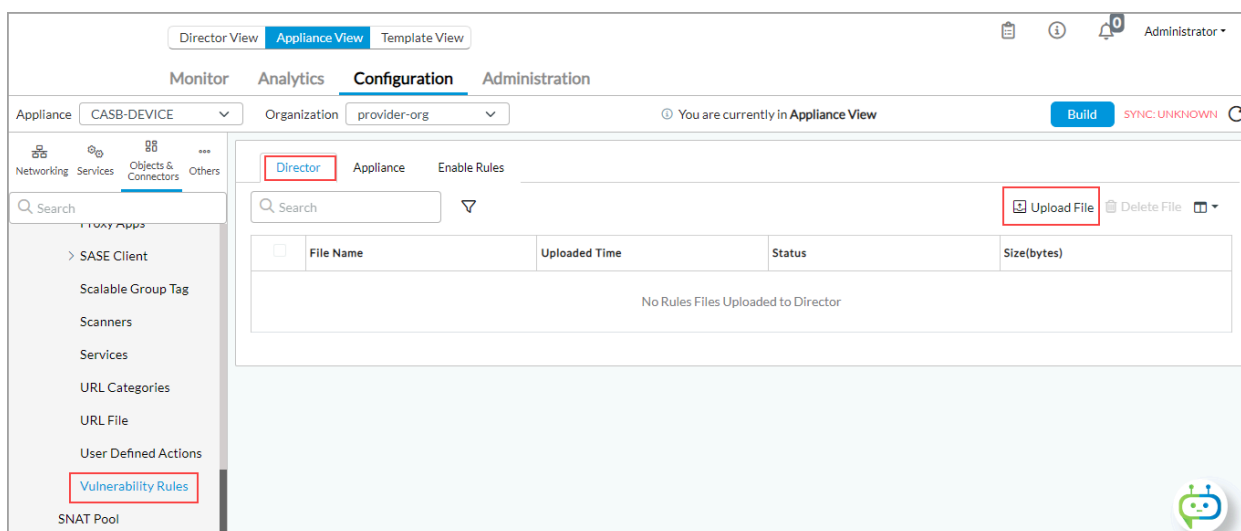
Configure Custom IPS Signatures

An IPS signature file contains vulnerability rules. To configure a custom IPS signature file:

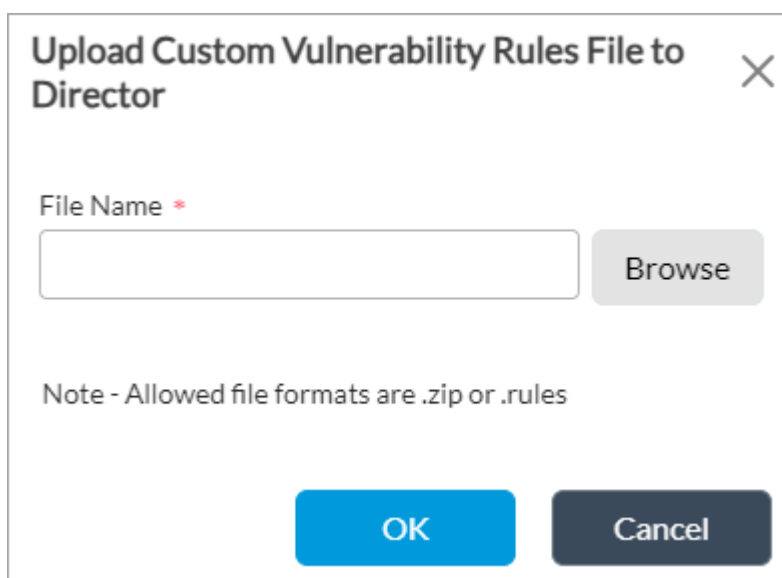
1. In Director view:
 - a. Select the Administration tab in the top menu bar.
 - b. Select Appliance in the left menu bar.
 - c. Select an appliance in the main pane. The view changes to Appliance view.
2. Select the Configuration tab in the top menu bar.
3. Select Objects and Connectors > Objects > Custom Objects > Vulnerability Rules in the left menu bar.



4. In the main pane, select the Director tab.
5. To upload a custom vulnerability rules file to the Director from a local folder:
 - a. Select the  Upload icon.

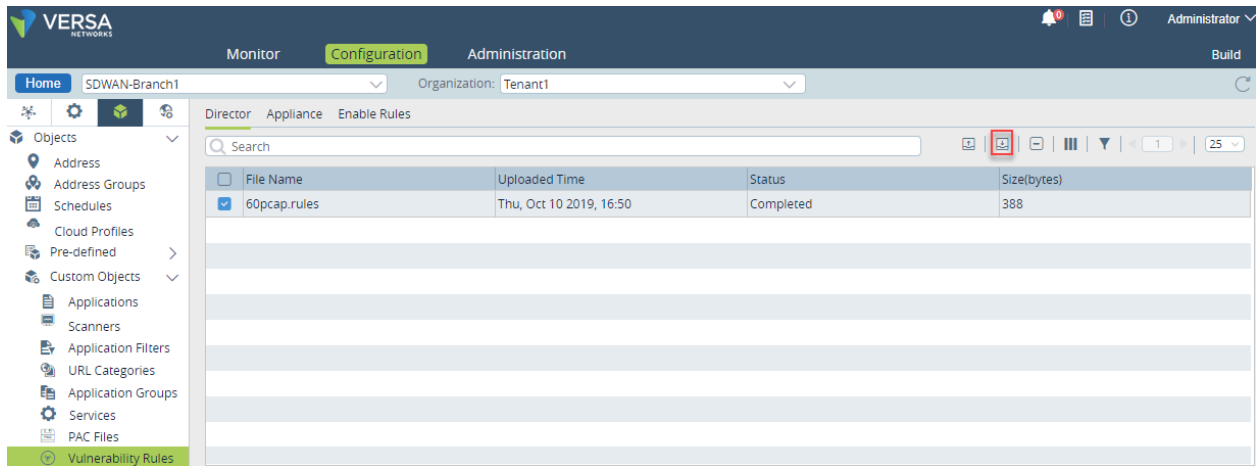


- b. Click Browse, select the desired file from a local folder, and then click OK.




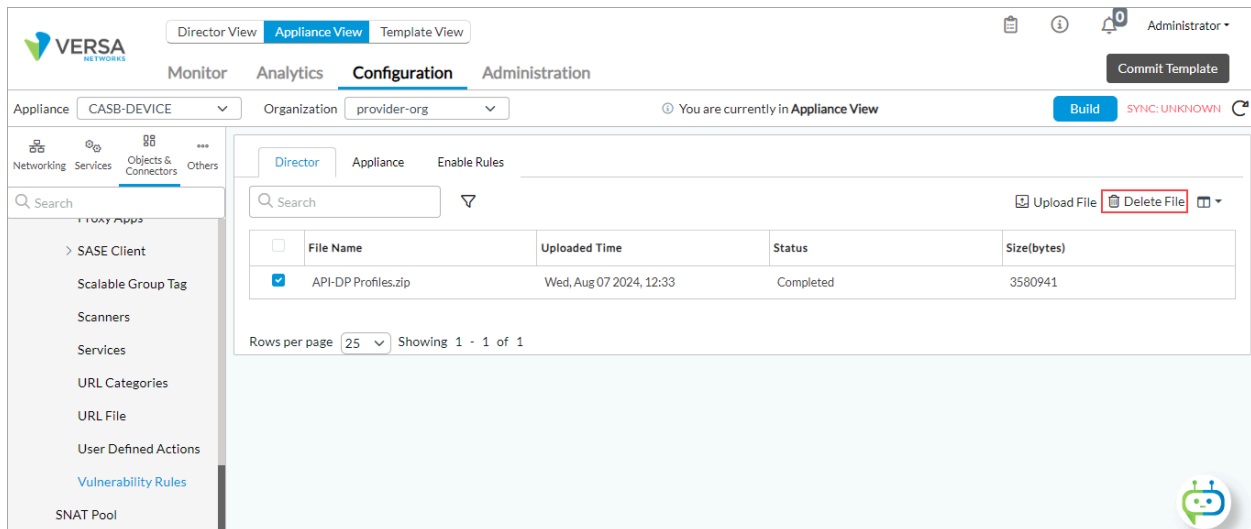
6. (For Releases 21.2 and earlier.) To download a custom vulnerability rules file from the Director to a local folder:

- a. Select the file in the main panel and click the  Download icon.



b. Enter a name for the file and click Save.

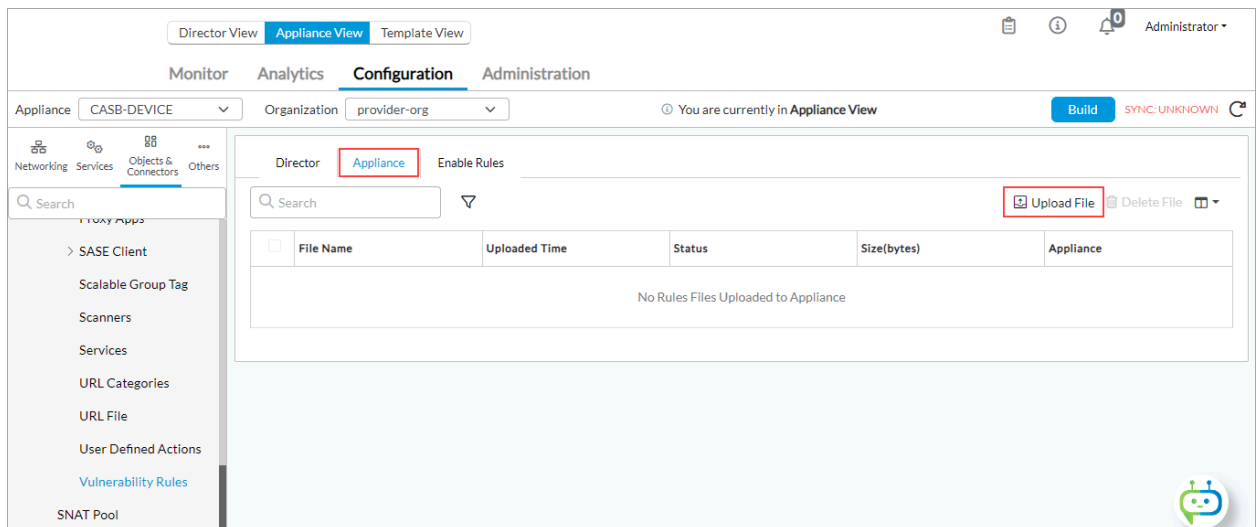
7. To delete a custom vulnerability rules file, select the file in the main pane and then click the  Delete icon.



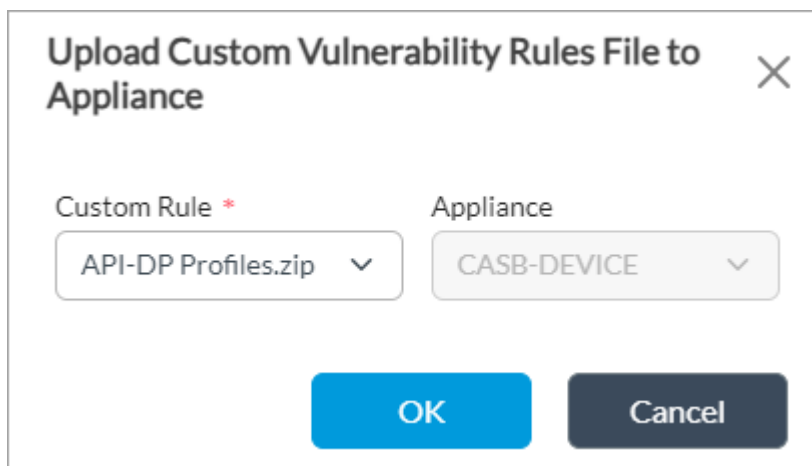
8. To associate a VOS device with a custom vulnerability rules file, select the Appliance tab.


9. To upload a custom vulnerability rules file to the Director node from a local folder:

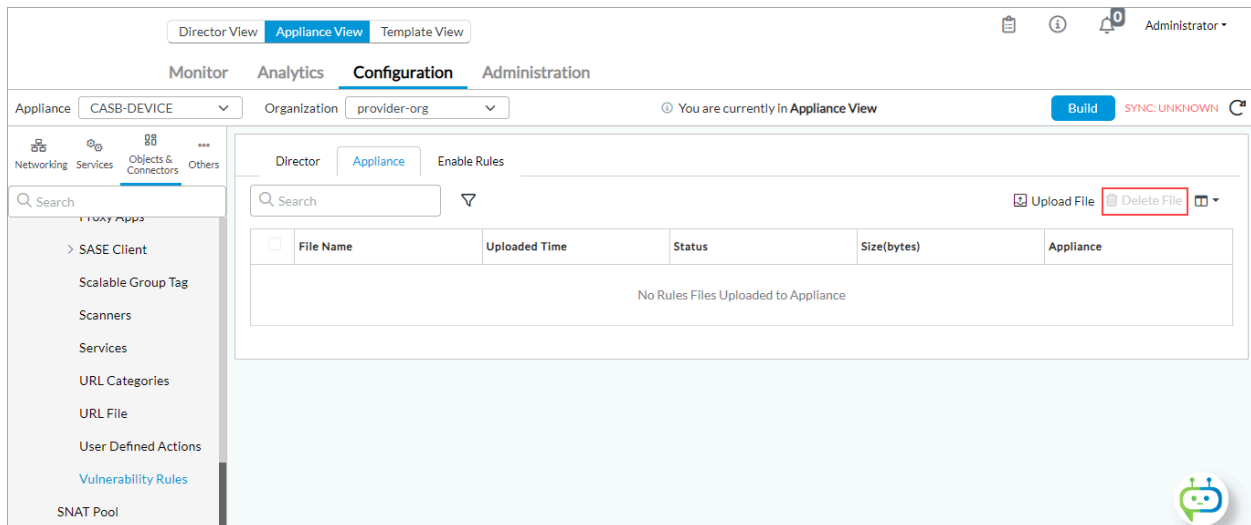
a. Select the  Upload icon.




- b. Select a rule in the Custom Rule field and click OK.

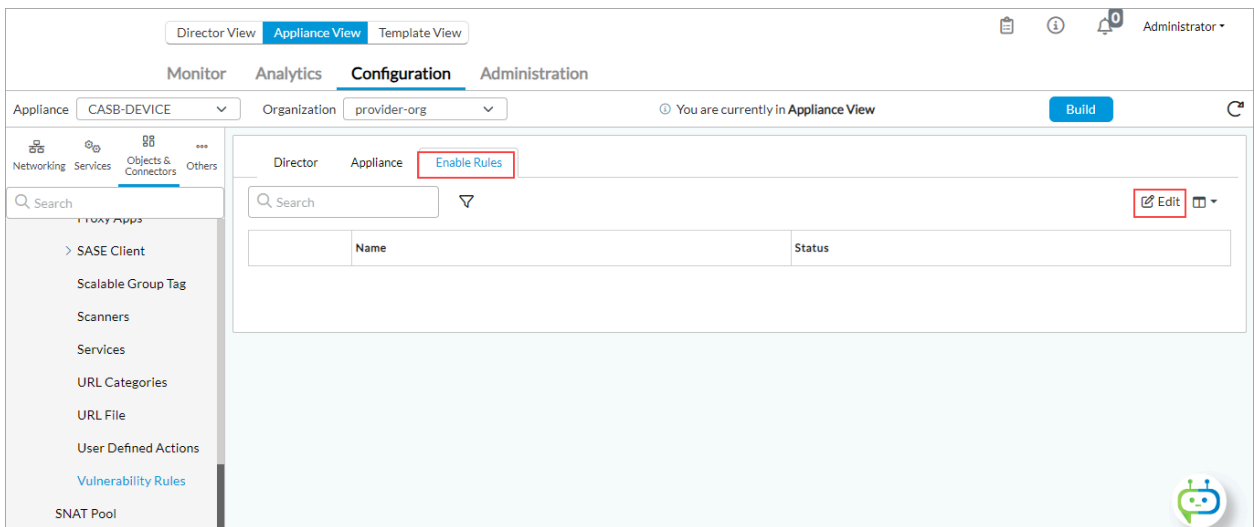


10. To delete custom vulnerability rules file, select the file in the main pane and then select the  Delete icon.



11. To enable the custom IPS signature for vulnerability profiles on a tenant:

- a. Select the Enable Rules tab, select the rule from the main pane, and click the  Edit icon.



- b. Click the Enable checkbox to enable a rule for the custom IPS signature.

Enable Rules

×

Name

Enable


OK

Cancel

c. Click OK.

Deactivate Custom IPS Signatures for Custom Vulnerability

To deactivate a custom IPS signature for custom vulnerability:

1. In Director view:
 - a. Select the Administration tab in the top menu bar.
 - b. Select Appliance in the left menu bar.
 - c. Select an appliance in the main pane. The view changes to Appliance view.
2. Select the Configuration tab in the top menu bar.
3. Select Objects and Connectors > Objects > Custom Objects > Vulnerability Rules in the left menu bar.
4. Click the Enable Rules tab.
5. Click the  Edit icon in the main pane to edit the setting in Enable Rules window.

Director View
Appliance View
Template View

Monitor
Analytics
Configuration
Administration

Appliance: CASB-DEVICE
Organization: provider-org
You are currently in Appliance View
Build

Networking
Services
Objects & Connectors
Others

SASE Client
Scalable Group Tag
Scanners
Services
URL Categories
URL File
User Defined Actions
Vulnerability Rules
SNAT Pool

Director
Appliance
Enable Rules

Q Search

▽

Edit

Name

Status

https://docs.versa-networks.com/Secure_SD-WAN/01_Configuration_from_Director/Security_Configuration/Configure_Intrusi...

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6. Deselect the Enable checkbox.

Enable Rules

Name

Enable

OK

Cancel

7. Click OK.

View Signature Compilation Status and Loaded Signatures

If you change the vulnerability profile in an existing access policy rule, the database is recompiled and it takes some time for the new vulnerability profile to take effect. During this transition, you can view the status of the profile from the time you change the profile to time a profile takes effect.

To check the compilation status:

1. In Director view:

a. Select the Configuration tab in the top menu bar.

b. Select Devices > Devices in the horizontal menu bar.

c. Select a device in the main pane. The view changes to Appliance view.

Director ViewAppliance ViewTemplate View

MonitorConfigurationWorkflowsAdministrationAnalytics

OrganizationTenant1You are currently in Director ViewConfiguration > Tenant1 > DevicesExport All RecordsExport

Templates >Devices >Objects >

Appliances >Device GroupsDevice Bind Data

NameMgmt. AddressTagsTypeService Start TimeSoftware VersioOrganizationsStatus

Config SyncReachabilityService

SDWAN-Branch210.20.64.104Branch,FremontBranchWed, Jan 10 2024, 15:1922.1.3-GATenant5,Tenant9,Tena...UnknownUnkno...

SDWAN-Branch410.20.64.108Seattle,BranchBranchSun, Dec 03 2023, 10:4122.1.2-GATenant5,Tenant9,Tena...UnknownUnkno...

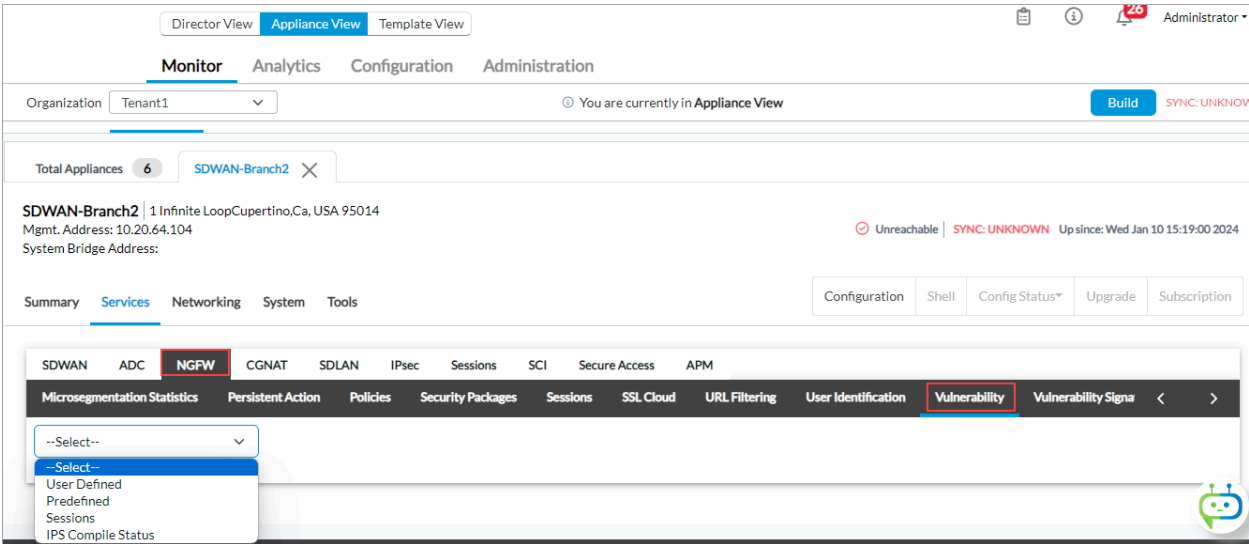
SDWAN-Branch510.20.64.101Susans_branch5_tagBranchThu, Nov 09 2023, 11:4222.1.2-GATenant5,Tenant9,Tena...UnknownUnkno...

SDWAN-Controller110.48.80.11controllerControllerFri, Jun 14 2024, 18:4522.1.3-GATenant2,Tenant3,Tena...Up

SDWAN-Controller210.48.80.12controllerControllerWed, Jan 10 2024, 15:4722.1.3-GATenant1,Tenant2,Tena...Up

2. Select the Monitor tab in the top menu bar.

3. Select Services > NGFW > Vulnerability in the left menu bar.



4. Select IPS Compile Status from the drop-down. The extended window displays the details of the profile.

IPS Compile Status								
Search								
	Brief Status	Load IPS Signature	Ignore IPS Signature	Fail IPS Signature	Load App ID Signature	Ignore App ID Signature...	Fail App ID Signature	Compile Time
>	Ready	0	0	0	0	0	0	00:00:00

The following table explains the fields in the output:

Field	Description
Brief Status	Status of the compilation: <ul style="list-style-type: none">Ready—IPS signature compilation is done.Compiling—IPS signature is being compiled.Abort-LowMem—If you enable the vulnerability profile in an access policy profile a traffic is dropped. You must disable the vulnerability profile in the access policy pr
Load IPS Signature	Number of loaded signatures.
Ignore IPS Signature	Number of ignored IPS signatures.
Fail IPS Signature	Number of failed IPS signatures.
Load App ID Signature	Number of loaded Application ID signatures.
Ignore App ID Signature	Number of ignored Application ID signatures.

Fail App ID Signature	Number of failed Appli ID signatures.
Compile Time	Time taken for the compilation. process

To check the compilation status:

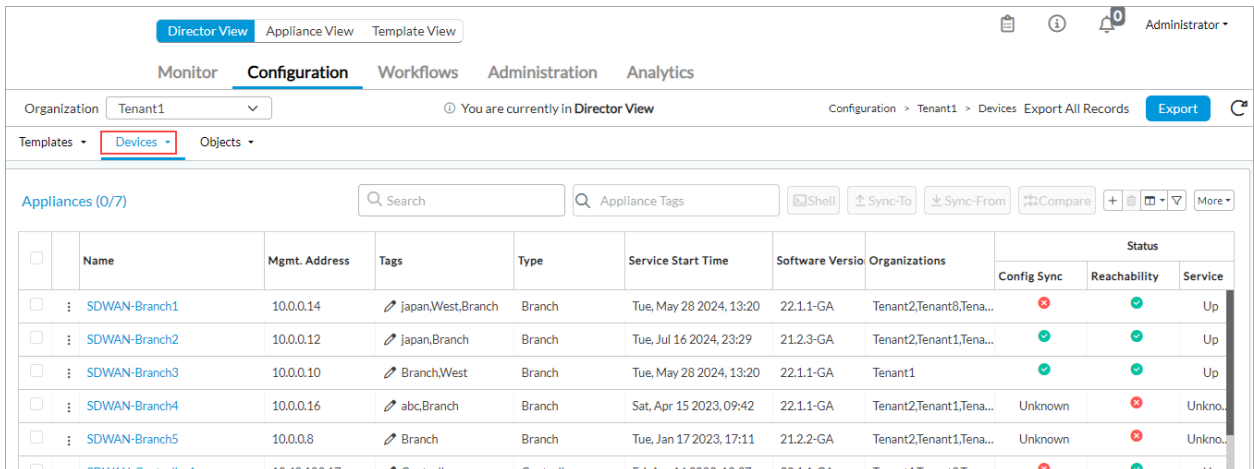
1. In Director view:
 - a. Select the Configuration tab in the top menu bar.
 - b. Select Devices > Devices in the horizontal menu bar.
 - c. Select a device in the main pane. The view changes to Appliance view.
2. Select the Monitor tab in the top menu bar.
3. Select Services > NGFW > Vulnerability in the left menu bar.
4. Select the Vulnerability Signatures tab.
5. Select an option from the drop-down, and click view for the vulnerability profile you loaded.

The screenshot displays the Versa Director web interface. At the top, the 'Monitor' tab is selected in the main navigation bar. Below it, the 'Configuration' tab is active in the left-hand menu. The 'Vulnerability Signatures' sub-tab is highlighted with a red box. The main content area shows a list of predefined vulnerability signatures for the selected device, 'SDWAN-Branch1'. The list includes items like 'All Anomaly Rules', 'All Attack Rules', 'Client Protection', 'Database Profile', 'ICS Profile', 'Lateral Movement Detection', 'Linux OS Profile', 'MAC OS Profile', 'Malware Profile', 'Server Protection', 'Versa Branch Profile', 'Versa Recommended Profile', and 'Windows OS Profile'. A search bar is located at the top right of the list. The interface also shows the device's status as 'Reachable' and 'SYNC: OUT_OF_SYNC'.

Modify IPS System Parameters

To change the IPS system parameters:

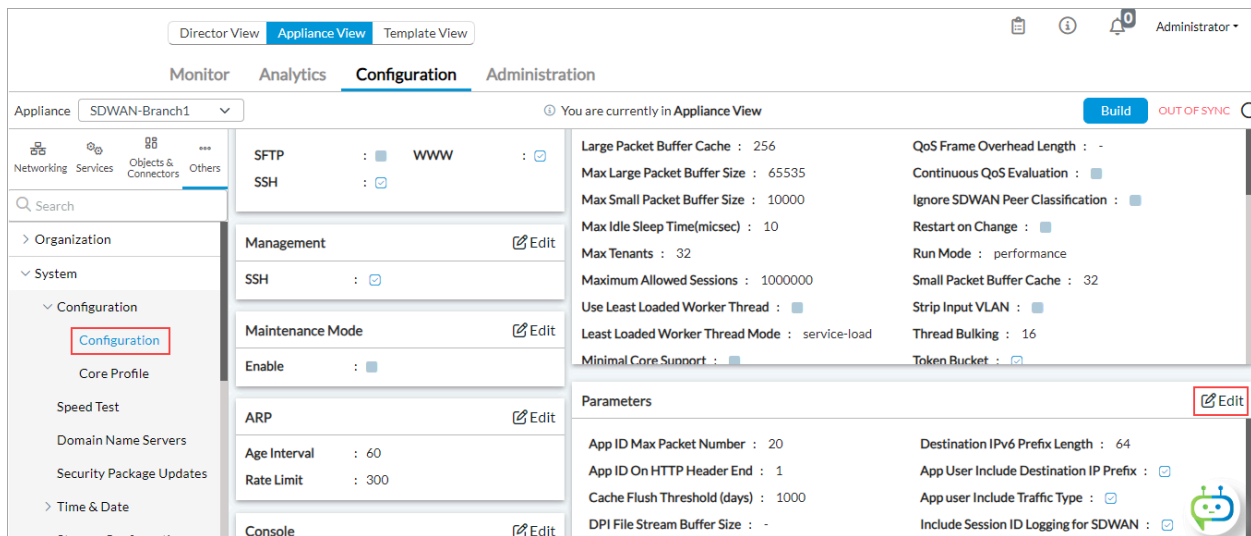
1. In Director view:
 - a. Select the Configuration tab in the top menu bar.
 - b. Select Devices > Devices in the horizontal menu bar.
 - c. Select a device from the main pane. The view changes to Appliance view.



The screenshot shows the Director View interface. The top navigation bar includes 'Director View', 'Appliance View', and 'Template View'. The main menu bar has 'Monitor', 'Configuration', 'Workflows', 'Administration', and 'Analytics'. The 'Configuration' tab is selected. Below the menu bar, there's a breadcrumb trail: 'Configuration > Tenant1 > Devices'. A 'Devices' dropdown menu is open, showing 'Appliances (0/7)'. Below this, a table lists several appliances:


Name	Mgmt. Address	Tags	Type	Service Start Time	Software Version	Organizations	Config Sync	Reachability	Service
SDWAN-Branch1	10.0.0.14	Japan,West,Branch	Branch	Tue, May 28 2024, 13:20	22.1.1-GA	Tenant2,Tenant8,Tena...	✗	✓	Up
SDWAN-Branch2	10.0.0.12	Japan,Branch	Branch	Tue, Jul 16 2024, 23:29	21.2.3-GA	Tenant2,Tenant1,Tena...	✓	✓	Up
SDWAN-Branch3	10.0.0.10	Branch,West	Branch	Tue, May 28 2024, 13:20	22.1.1-GA	Tenant1	✓	✓	Up
SDWAN-Branch4	10.0.0.16	abc,Branch	Branch	Sat, Apr 15 2023, 09:42	22.1.1-GA	Tenant2,Tenant1,Tena...	Unknown	✗	Unkno.
SDWAN-Branch5	10.0.0.8	Branch	Branch	Tue, Jan 17 2023, 17:11	21.2.2-GA	Tenant2,Tenant1,Tena...	Unknown	✗	Unkno.

2. Select Configuration in the top menu bar.
3. Select Others > System > Configuration > Configuration in the left menu bar.



The screenshot shows the Appliance View interface for 'SDWAN-Branch1'. The top navigation bar includes 'Director View', 'Appliance View', and 'Template View'. The main menu bar has 'Monitor', 'Analytics', 'Configuration', and 'Administration'. The 'Configuration' tab is selected. Below the menu bar, there's a breadcrumb trail: 'Configuration > Tenant1 > Devices'. A 'Build' button and 'OUT OF SYNC' status are visible. The left sidebar shows a tree view with 'Configuration' selected. The main pane displays system parameters for 'SDWAN-Branch1'.

Parameter	Value
SFTP	WWW
SSH	✓
Management	✗ Edit
SSH	✓
Maintenance Mode	✗ Edit
Enable	✗
ARP	✗ Edit
Age Interval	60
Rate Limit	300
Console	✗ Edit
Large Packet Buffer Cache	256
Max Large Packet Buffer Size	65535
Max Small Packet Buffer Size	10000
Max Idle Sleep Time(micsec)	10
Max Tenants	32
Maximum Allowed Sessions	1000000
Use Least Loaded Worker Thread	✗
Least Loaded Worker Thread Mode	service-load
Minimal Core Support	✗
QoS Frame Overhead Length	-
Continuous QoS Evaluation	✗
Ignore SDWAN Peer Classification	✗
Restart on Change	✗
Run Mode	performance
Small Packet Buffer Cache	32
Strip Input VLAN	✗
Thread Bulking	16
Token Bucket	✗
App ID Max Packet Number	20
App ID On HTTP Header End	1
Cache Flush Threshold (days)	1000
DPI File Stream Buffer Size	-
Destination IPv6 Prefix Length	64
App User Include Destination IP Prefix	✓
App user Include Traffic Type	✓
Include Session ID Logging for SDWAN	✓

4. In the Parameters pane, click the  Edit icon to edit the IPS parameters. In the Edit Parameters popup window, select General tab and enter information for the following fields.

Edit Parameters

General
Storage
LEF
Dynamic Scale
DPI / IPS Custom Config

App ID On HTTP Header End
1

Cache Flush Threshold (days)
1000

DPI File Stream Buffer Size

IPS SDB Memory Limit (MIB)
2048

IPS SDB Purge Timeout (days)
0

Max DPI Stream Depth

Panic On Assert
1

Security Memory Limit
90

IPS Signature Memory Limit (MIB)
1024

URLF Premium DB Min RAM Size
7168

URLF Sample DB Min RAM Size
4096

URLF Other DB Min RAM Size
2048

App ID Max Packet Number
20

IPS Action During Signature Compilation
Deny

☐ IPS based App-ID detection

☒ IPS Close On Memory Failure

☐ Receive Checksum Computation

☐ Stream Ignore Asymmetric Traffic

☐ IPS Async Signature Compilation

☒ Enable App ID Max Packet

OK
Cancel

5. Select DPI/IPS Custom Config tab and enter information for the following fields.

Edit Parameters

General
Storage
LEF
Dynamic Scale
DPI / IPS Custom Config

DPI

Inspection Profile
Max File Inspection
Max Inspection
Max Stream Reassembly

IPS

Inspection Profile
Javascript Deobfuscation
Max File Inspection
Max Inspection

Max Packet Inspection
Max Stream Inspection
☐ Javascript Extended Detection

OK
Cancel

For Releases 21.2 and earlier:

Edit Parameters

Max DPI Stream Depth

App ID On HTTP Header End

DPI File Stream Buffer Size

URLF Premium DB Min RAM Size

URLF Sample DB Min RAM Size

URLF Other DB Min RAM Size

Panic On Assert

Security Memory Limit

IPS SDB Purge Timeout (days)

Cache Flush Threshold (days)

IPS SDB Memory Limit (MIB)

2048

IPS Signature Memory Limit (MIB)

1024

☒ IPS App ID Detection
☐ IPS Close On Memory Failure
☐ IPS Async Signature Compilation

☐ Stream TCP Checksum Validation
☐ Stream Fastpath Normalize Packet
☐ Stream TCP Evasion Detection

☐ Receive Checksum Computation
☐ IP Javascript Extended Detection

IP Javascript Deobfuscation

--Select--

IPS Action During Signature Compilation

--Select--

Storage

Hard Disk

Common Pool Size

Max Size

Path

Ram Disk

Common Pool Size

Max Size

OK

Cancel

Field Name	Description
IPS SDB Purge Timeout	Enter how long to save the compilation details in the IPS signature database when y This file is deleted after the specified number of days, and a new file is generated the Range: 0 through 65535 days

IPS SDB Memory Limit	Enter the memory limit of the signature database. If system RAM is below this value, file.
IPS Signature Memory Limit	Enter the memory limit of the IPS signature database. If the memory of the IPS data fail to load. <i>Default:</i> 1024 MB
IPS App ID Detection	Click to have both the IPS engine and the application engine perform application id. <i>Default:</i> Enabled
IPS Close On Memory Failure	Click to drop a session if memory is not available. <i>Default:</i> Disabled
IPS Async Signature Compilation	(For Releases 22.1.3 and later.) Click to have the IPS signature compilation occur in compilation then takes place in a separate thread without blocking the other ongoing IPS signature is being compiled, traffic is processed using the previous version of IP
IPS Javascript Extended Detection	Click to perform extended Javascript detection after deobfuscation completes.
IPS Javascript Deobfuscation	Select an option to convert a Javascript or an HTML program to a simple, understand
IPS Action During Signature Compilation	Select the action to take when a signature compilation is in progress. You can either

6. Click OK.

Note: You can set other IPS parameters from the CLI.

View Vulnerability Information

To view information about a VOS device's vulnerability, you can do the following:

- View vulnerability profile statistics and logs
- View vulnerability threats and logs
- View packet capture logs

Display Vulnerability Profile Statistics and Logs

To view profile statistics for predefined profiles:

1. In Appliance view, select the Monitor tab in the top menu bar.
2. Select Services > NGFW > Vulnerability.
3. In the drop-down menu, select Predefined.

The screenshot shows the Versa Networks SD-WAN Appliance View interface. The top navigation bar includes tabs for Director View, Appliance View (selected), and Template View. The main menu bar has Monitor, Analytics, Configuration, and Administration. The Organization dropdown is set to 'provider-org'. The status bar indicates 'You are currently in Appliance View' and 'OUT OF SYNC'. The left sidebar shows 'Total Appliances: 6' and 'SDWAN-Branch1'. The main content area displays the 'SDWAN-Branch1' details, including its location, management address, and system bridge address. The 'Services' tab is selected, and the 'NGFW' sub-tab is active. The 'Vulnerability' sub-tab is selected, and the 'Predefined' dropdown is open. The table below shows the statistics for predefined profiles.

Name	Total Sessions	Total Packet Ev...	Total Stream E...	Total MPM Mat...	Total Rule Proc...	Total Rule Mat...	Total Packet Ca...	Total Packet Q...	Packet Capture...	Total Logged R...
✓ All Anomaly Rules	0	0	0	0	0	0	0	0	0	0
Profile to load all Anomaly SI...										
> All Attack Rules	0	0	0	0	0	0	0	0	0	0
> Client Protection	0	0	0	0	0	0	0	0	0	0
> Database Profile	0	0	0	0	0	0	0	0	0	0
> ICS Profile	0	0	0	0	0	0	0	0	0	0

4. Click the > right arrow next to the name of the predefined profile.

Summary

Services

Networking

System

Tools

Configuration

Shell

Config Status*

Upgrade

Subscription

SDWAN

NGFW

CGNAT

SDLAN

IPsec

Sessions

SCI

Secure Access

APM

Microsegmentation Statistics

Persistent Action

Policies

Security Packages

Sessions

SSL Cloud

URL Filtering

User Identification

Vulnerability

Vulnerability Sign

<

>

Predefined

Search

Clear

	Name	Total Sessions	Total Packet Ev...	Total Stream E...	Total MPM Mat...	Total Rule Proc...	Total Rule Mat...	Total Packet Ca...	Total Packet Q...	Packet Capture...	Total Logged R...
	All Anomaly Rules	0	0	0	0	0	0	0	0	0	0

Name	Signature Hit Count	Drop Count	Reset Count	Alert Count	Total Packet Captured	Packet Capture Failed
Profile to load all Anomaly SI...	0	0	0	0	0	0

>	All Attack Rules	0	0	0	0	0	0	0	0	0
>	Client Protection	0	0	0	0	0	0	0	0	0
>	Database Profile	0	0	0	0	0	0	0	0	0
>	ICS Profile	0	0	0	0	0	0	0	0	0

To view profile statistics for custom profiles:

1. In Appliance view, select the Monitor tab in the top menu bar.
2. Select Services > NGFW > Vulnerability.

Director ViewAppliance ViewTemplate View

Monitor

Analytics

Configuration

Administration

Organization Tenant1

You are currently in Appliance View

Build

SDWAN-Branch1

1 Hacker Way, Menlo Park, CA, USA 94025

Mgmt. Address: 10.0.0.15

System Bridge Address: 0A:30:07:36:01:00

Reachable

SYNC: IN_SYNC

Up since: Fri Aug 2 10:36:32 2024

Summary

Services

Networking

System

Tools

Configuration

Shell

Config Status*

Upgrade

Subscription

SDWAN

NGFW

CGNAT

SDLAN

IPsec

Sessions

SCI

Secure Access

APM

tent Action

Policies

Security Packages

Sessions

SNAT

SSL Cloud

URL Filtering

User Confidence Score

User Identification

Vulnerability

Vulnerability Signature

<

>

User Defined

Search

Clear

	Name	Total Sessions	Total Packet Eve...	Total Stream Ev...	Total MPM Matc...	Total Rule Proce...	Total Rule Matc...	Total Packet Cap...	Total Packet Qu...	Packet Capture ...	Total Logged Rul...
>	VP1	0	0	0	0	0	0	0	0	0	0

3. In the drop-down menu, select User Defined .
4. Click the > right arrow next to the name of the custom profile. The extended window displays the statistics.

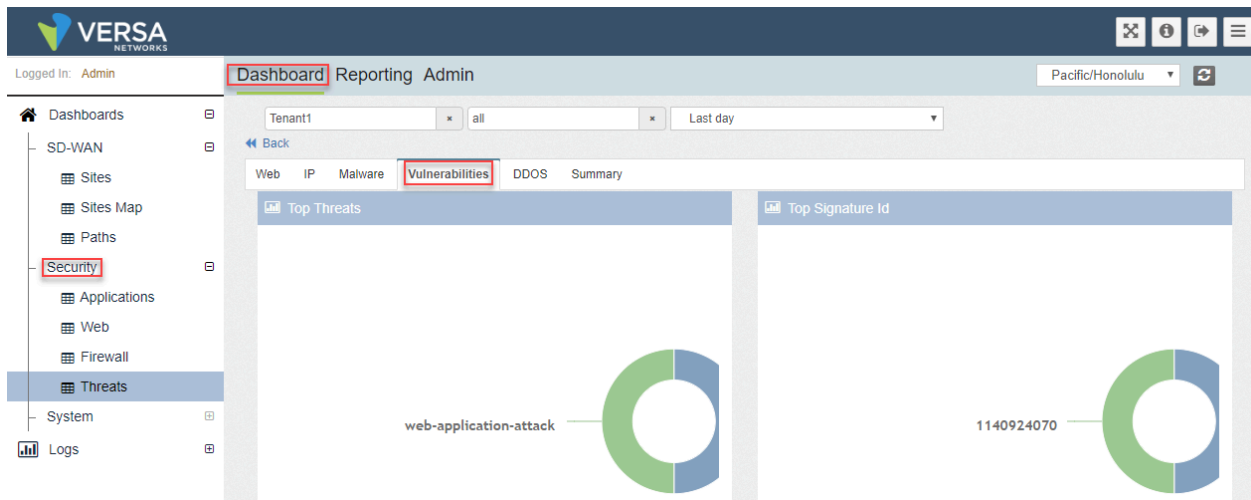
	Name	Signature Hit Count	Drop Count	Reset Count	Alert Count	Total Packet Captured	Packet Capture Failed
	r1	0	0	0	0	0	0

View Vulnerability Threats and Logs

When an attack is detected, the IPS engine blocks the traffic, and the Director node logs the details on the Analytics node.

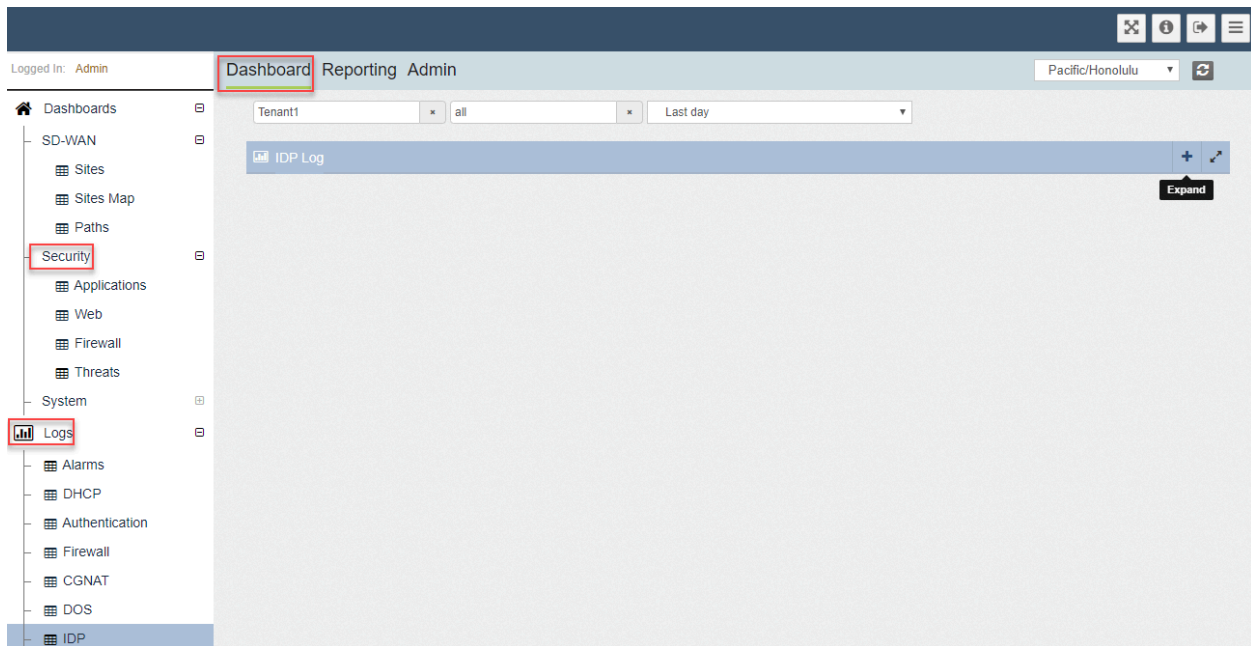
To view the vulnerability threats:

1. Log in to the Analytics node that is integrated with the Director node.
2. Select Dashboard in the top menu bar.
3. Select Security > Threats in the left navigation bar. The following window displays, showing the security panes with top data.



To view the vulnerability logs:

1. Log in to the Analytics node that is integrated with the Director node.
2. Select Dashboard in the top menu bar.



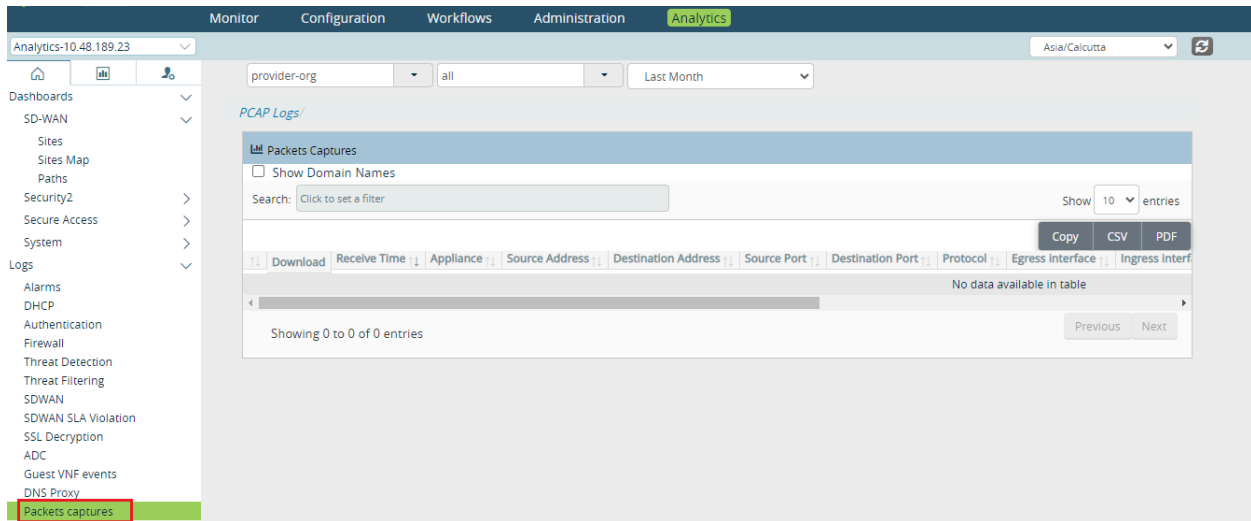
3. Select Logs> IDP in the left navigation bar. The following window displays, listing the detailed logs.

Receive Time	Threat Type	Signature Message	Class Message	Action	Signature Identifier	Signature Revision	Group Id	Signature Priority	Profile	Profile Rule	Direction	Protocol	Hit Count
Oct 22nd 2019, 11:31:59 AM IST	attempted-admin	OS-OTHER Bash CGI environment variable injection attempt	Attempted Administrator Privilege Gain	alert	1000004536	1	1	1	Versa Recommended Profile-Modify_Action_To_Alert	Attack CVSS Score Rule Filter	ToServer	TCP	1
Oct 22nd 2019, 11:31:59 AM IST	attempted-admin	OS-OTHER Bash CGI environment variable injection attempt	Attempted Administrator Privilege Gain	alert	1000004536	1	1	1	Versa Recommended Profile-Modify_Action_To_Alert	Attack CVSS Score Rule Filter	ToServer	TCP	1
Oct 22nd 2019, 11:31:58 AM IST	attempted-admin	OS-OTHER Bash CGI environment variable injection attempt	Attempted Administrator Privilege Gain	alert	1000004536	1	1	1	Versa Recommended Profile-Modify_Action_To_Alert	Attack CVSS Score Rule Filter	ToServer	TCP	1
Oct 22nd 2019, 11:31:58 AM IST	attempted-admin	OS-OTHER Bash CGI environment variable injection attempt	Attempted Administrator Privilege Gain	alert	1000004536	1	1	1	Versa Recommended Profile-Modify_Action_To_Alert	Attack CVSS Score Rule Filter	ToServer	TCP	1
Oct 22nd 2019, 11:31:46 AM IST	attempted-admin	OS-OTHER Bash CGI environment variable injection attempt	Attempted Administrator Privilege Gain	alert	1000004536	1	1	1	Versa Recommended Profile-Modify_Action_To_Alert	Attack CVSS Score Rule Filter	ToServer	TCP	1
Oct 22nd 2019, 11:31:45 AM IST	attempted-admin	OS-OTHER Bash CGI environment variable injection attempt	Attempted Administrator Privilege Gain	alert	1000004536	1	1	1	Versa Recommended Profile-Modify_Action_To_Alert	Attack CVSS Score Rule Filter	ToServer	TCP	1

View Packet Capture Logs

To view the packet capture logs:

1. Log in to the Analytics node that is integrated with the Director node.
2. Select Dashboards in the left menu bar.
3. Select Logs > Packet Captures in the left menu bar. The following window displays, showing details of the packets captured.



Troubleshoot IDS/IPS

Run these CLI commands to troubleshoot vulnerability-based security issues:

- **show orgs org *tenant-name* sessions ips brief**
- **show orgs org *tenant-name* sessions ips detail**
- **show orgs org-services *tenant-name* security ips statistics**
- **show orgs org-services *tenant-name* security profiles ips signature predefined-profile**
- **show orgs org-services *tenant-name* security profiles ips signature user-defined-profile**
- **show orgs org-services *tenant-name* security profiles ips statistics signature predefined-profile**
- **show orgs org-services *tenant-name* security profiles ips statistics signature user-defined-profile**
- **show orgs org-services *tenant-name* security profiles ips statistics predefined**
- **show orgs org-services *tenant-name* security profiles ips statistics user-defined**

Supported Software Information

Releases 20.2 and later support all content described in this article, except:

- Release 22.1.3 makes changes to the IPS Async Signature Compilation option.

Additional Information

[Apply Log Export Functionality](#)

[Configure Antivirus](#)

[Configure Log Export Functionality](#)

https://docs.versa-networks.com/Secure_SD-WAN/01_Configuration_from_Director/Security_Configuration/Configure_Intrusi...

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[Configure NGFW](#)

[Configure Security Profile Groups](#)

[Versa Analytics Scaling Recommendations](#)