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## Configure DoS Protection



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

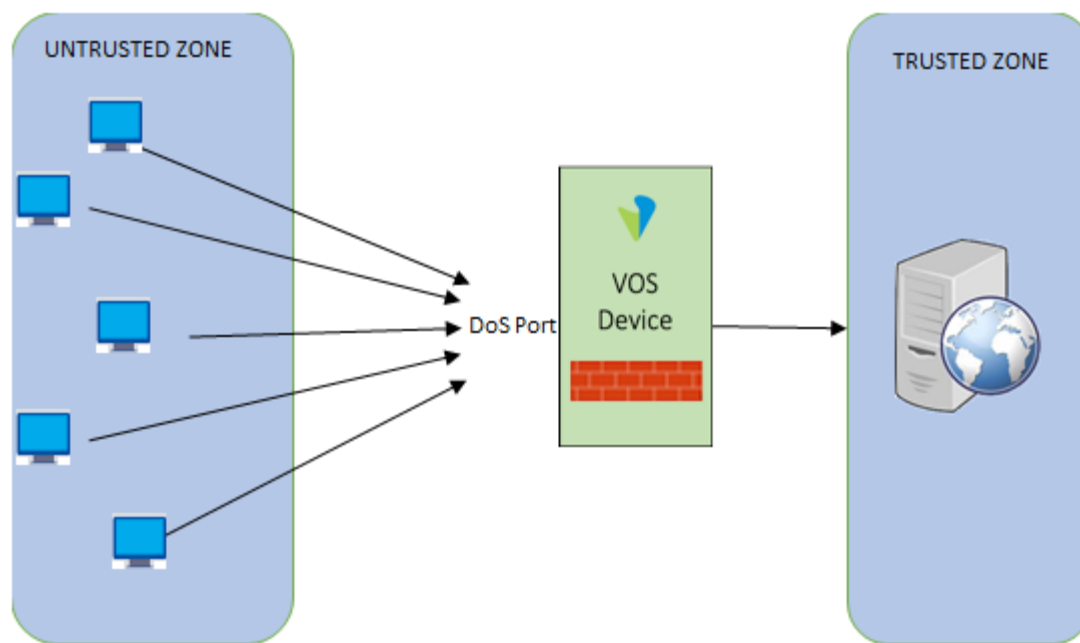
You can configure Versa Operating System™ (VOS™) devices to detect and mitigate denial-of-service (DoS) attacks. A DoS attack is an attempt to disrupt network services and deny network access by overloading unnecessary traffic using multiple sources.

Note: Protection against DoS attacks is resource intensive, so use it only for critical systems and enable it only for the subnet or subset of servers that need to be protected.

When a malicious entity launches DoS attack on a customer's network infrastructure, a high volume of traffic floods the network with the intent of exhausting the hardware and software resources. As a result, the network becomes unavailable for its intended users. DoS attack attempts include:

- Divert high-volume traffic from multiple sources to the network
- Create unnecessary TCP sessions
- Flood the network
- Scan ports
- Sweep the host
- Attack the network with packet-based methods

To defend against such attacks, you configure DoS protection policy and profiles to detect and prevent zone-based or endpoint-based DoS attacks.



In a DoS policy, you can match the following criteria:

- Source zone
- Destination zone
- Source address
- Destination address
- IP headers
- TCP and UDP services
- Time of day

You use the match criteria to separate the incoming traffic into fine-grained traffic streams. For example, you can specify criteria to match all traffic originating from the internet and destined to a specific web server. As another example, you can specify criteria to match all traffic originating from within an enterprise that is destined towards to a data center resource like a file server.

To apply DoS protection, you define DoS protection profiles, and then you reference the profile in a DoS protection policy. DoS protection profiles monitor thresholds for various protocols based on an endpoint-classified or aggregate basis. The Versa security appliance monitors the traffic rate for the various traffic protocols that matches the above match criteria and enforces the mitigation actions when the configured thresholds exceed. For TCP SYN flood, the enforcement actions allow for allow, alert, random early drop or TCP SYN cookies. There are two types of protection profiles:

- Aggregate DoS profile
- Classified DoS profile

A DoS protection profile provides detailed control for denial-of-service (DoS) protection policies. A DoS protection profile specifies the threshold rate of incoming packets and the action the firewall takes to protect against the DoS attack. The DoS protection profile is attached to the DoS protection policy rule, which establishes the matching criteria for packets that are subject to Deny, Allow, or Protect actions.

A DoS policy allows you to control the number of sessions between interfaces, zones, addresses and region. You can configure the DoS protection profile to define the flood thresholds for these protocols:

- ICMP
- ICMPv6
- Other IP
- SCTP
- TCP
- UDP

The DoS protection profile specifies:

- Maximum number of sessions.
- Profile type—Type of DoS protection profile:
  - Aggregate profile—Applies the thresholds in the DoS protection profile to all the packets that match the rule criteria with which this profile is associated.
  - Classified Profile—Applies the threshold configured in the profile to all the packets that match the classification criteria.
- Classification key—For a classified profile, the classification key allows you to classify the attack based on the source IP address, the destination IP address, or both the source and destination IP addresses.

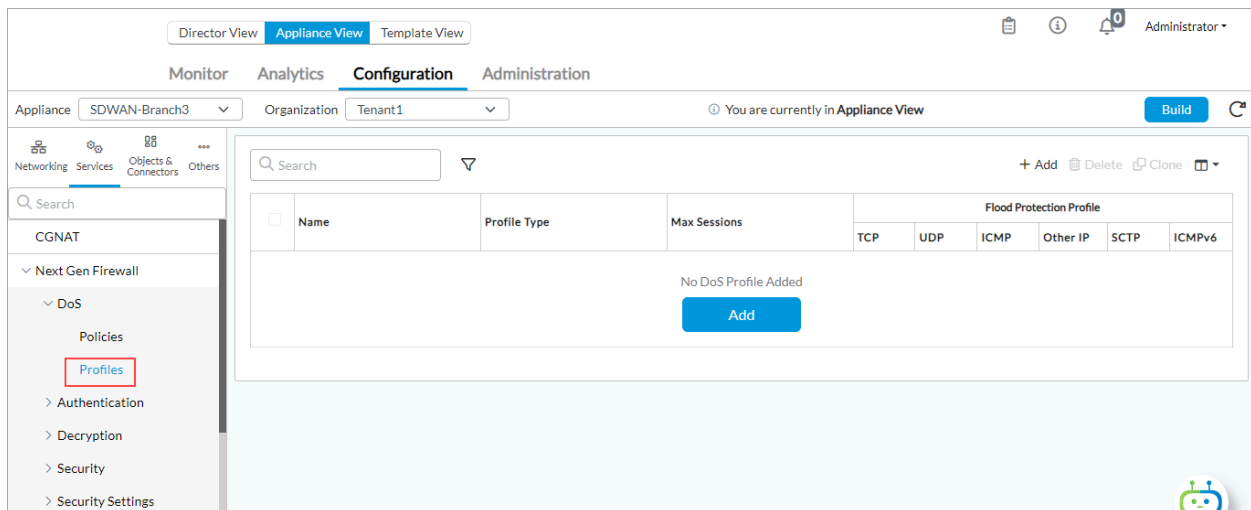
An aggregate DoS protection profile monitors the thresholds configured for various protocols for all the traffic that matches the rule in the DoS policy. The aggregate DoS profile is useful to defend against DoS attacks targeted across an entire subnet (instead of endpoints based on specific IP addresses) and the source of the DoS traffic spans a wide range of IP addresses.


In a classified DoS profile, you set the classification key to source and destination IP address to monitor the thresholds based on a per-source and destination IP address basis. The rate at which packets are received is tracked per-protocol, per-source-and-destination-IP-address. You use classified DoS profiles to defend against DoS attacks targeted against specific endpoint hosts, based on the destination IP address or to narrow down the source of the DoS traffic to a few source IP addresses.

- If the DoS profile is configured as classified type then the thresholds configured for the various protocols are monitored based on the classification key for the traffic that matches the rule in the DoS policy.
- If the classification key is set to source IP address then the thresholds are monitored based on a per-source-IP-address. The rate at which packets are received is tracked per-protocol, per-source-IP-address.
- If the classification key is set to destination IP address then the thresholds are monitored based on a per-destination-IP-address basis. The rate at which packets are received is tracked per-protocol, per-destination-IP-address.

## Configure a DoS Protection Profile

1. In Director view:
  - a. Select the Configuration tab in the top menu bar.
  - b. Select Templates in the horizontal menu bar.
  - c. Select an organization in the left menu bar.
  - d. Select a template from the dashboard. The view changes to Appliance view.
2. Or, in Director view:
  - a. Select the Administration tab in the top menu bar.
  - b. Select Appliance in the left menu bar.
  - c. Select the device from the main pane. The view changes to Appliance view.
3. Select the Configuration tab in the top menu bar.
4. Select Services > Next-Gen Firewall > DoS > Profiles in the left menu bar, or select Services > Stateful Firewall > DoS > Profiles in the left menu bar, and then select an entity from the Organization list.



5. Click the  Add icon. In the Add DoS Profile window, enter information for the following fields.

## Add DoS Profile



Name \*

Description

Tags

Type

☐ Aggregate Profile

☒ Classified Profile

Classification Key

Max Sessions

Flood Protection

Protocol	Enable	Alarm Rate Packets (seconds)	Activate Rate Packets (seconds)	Maximum Rate Packets (seconds)	Drop Period (seconds)	Actions
TCP	<input type="checkbox"/>	<input type="text" value="100000"/>	<input type="text" value="100000"/>	<input type="text" value="100000"/>	<input type="text" value="300"/>	SYN Coc ▼
UDP	<input type="checkbox"/>	<input type="text" value="100000"/>	<input type="text" value="100000"/>	<input type="text" value="100000"/>	<input type="text" value="300"/>	
ICMP	<input type="checkbox"/>	<input type="text" value="100000"/>	<input type="text" value="100000"/>	<input type="text" value="100000"/>	<input type="text" value="300"/>	
Other IP	<input type="checkbox"/>	<input type="text" value="100000"/>	<input type="text" value="100000"/>	<input type="text" value="100000"/>	<input type="text" value="300"/>	
SCTP	<input type="checkbox"/>	<input type="text" value="100000"/>	<input type="text" value="100000"/>	<input type="text" value="100000"/>	<input type="text" value="300"/>	
ICMPv6	<input type="checkbox"/>	<input type="text" value="100000"/>	<input type="text" value="100000"/>	<input type="text" value="100000"/>	<input type="text" value="300"/>	

OK

Cancel

Field	Description
Name (Required)	Enter a name for the aggregate DoS protection profile.
Description	Enter a text description for the profile.
Tags	Enter a keyword or phrase that allows you to filter the profile. This is useful when you have many profiles and want to view those that are tagged with a particular keyword.
Type	<p>Select the type of profile:</p> <ul style="list-style-type: none"> <li>◦ Aggregate Profile—Applies the thresholds in the DoS protection profile to all the packets that match the rule criteria with which this profile is associated.</li> <li>◦ Classified Profile—Applies the threshold configured in the profile to all the packets that match the classification criteria.</li> </ul>
Classification Key	<p>For a classified profile, select the key to classify the attack:</p> <ul style="list-style-type: none"> <li>◦ Destination IP Only—Apply the DoS profile on the destination IP address of the attack.</li> <li>◦ Source IP Only—Apply the DoS profile on the source IP of the attack.</li> <li>◦ Source and Destination IP—Apply the DoS profile on both the source and destination of the attack.</li> </ul>
Max Sessions	<p>Enter the maximum number of sessions to allow for traffic that meets the DoS protection rule to which this DoS profile is applied.</p> <p><i>Range: 1 through 4194304</i></p>
Flood Protection (Group of Fields)	
◦ Protocol and Enable	Click Enable on the desired line to enable flood protection for that protocol
◦ Alarm Rate	Enter the threshold rate at which to generate a DoS alarm, in packets per second.

	<p><i>Range:</i> 1 through 20000000 packets per second</p> <p><i>Default:</i> 100000 packets per second</p>
<ul style="list-style-type: none"> <li>◦ Active Rate</li> </ul>	<p>Enter the threshold rate at which to activate a DoS response, in packets per second.</p> <p><i>Range:</i> 1 through 20000000 packets per second</p> <p><i>Default:</i> 100000 packets per second</p>
<ul style="list-style-type: none"> <li>◦ Maximal Rate</li> </ul>	<p>Enter the threshold rate of incoming packets, in packets per second. When this threshold is exceeded, all packets are dropped.</p> <p>For aggregate DoS protection profile, this limit applies to all the traffic processed by the DoS protection rule with which this DoS protection profile is associated.</p> <p>For classified DoS protection profile, this limit applies to the traffic on a classified basis (based on the source IP address, destination IP address, or both), for the traffic processed by the DoS protection rule with which this DoS protection profile is associated.</p> <p><i>Range:</i> 1 through 20000000 packets per second</p> <p><i>Default:</i> 100000 packets per second</p>
<ul style="list-style-type: none"> <li>◦ Drop Period</li> </ul>	<p>Enter the duration, in seconds, when offending packets are dropped. Traffic dropped during this time is not counted when triggering an alert.</p> <p><i>Range:</i> 1 through 18000 seconds</p> <p><i>Default:</i> 300 seconds</p>
<ul style="list-style-type: none"> <li>◦ Actions</li> </ul>	<p>Select the action to take when the active rate threshold is breached:</p> <ul style="list-style-type: none"> <li>◦ Random Early Drops—Randomly drop packets.</li> </ul>

	<ul style="list-style-type: none"> <li>◦ SYN Cookies—Generate an acknowledgment, and ensure that the connection is not dropped during a SYN flood attack. This is the default.</li> </ul> <p><i>Default:</i> SYN Cookies</p>
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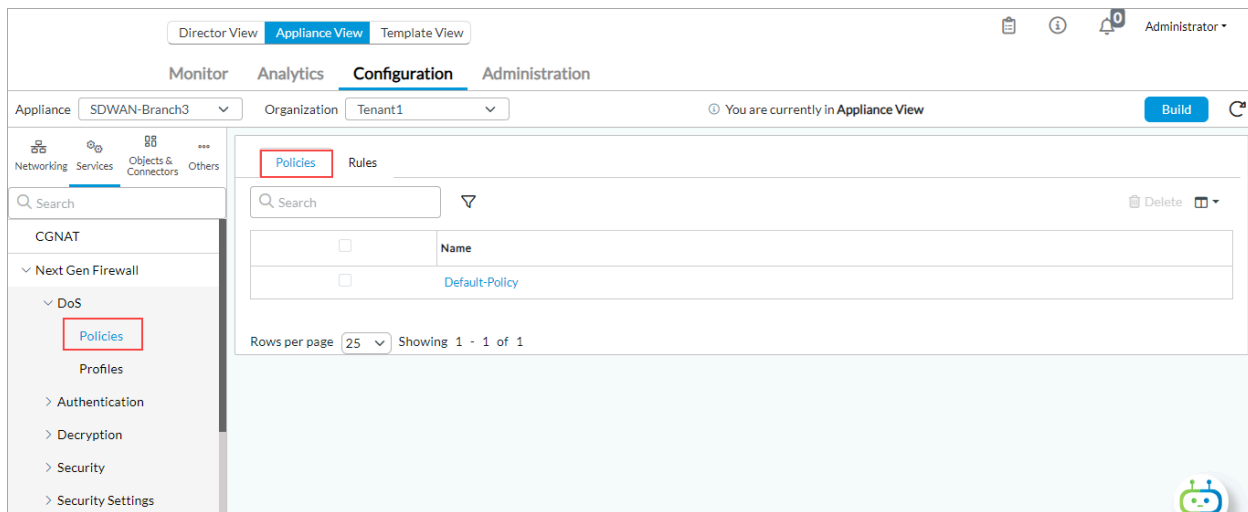
6. Click OK.


## Configure a DoS Protection Policy

To configure a DoS policy, you create rules to match the incoming traffic. For traffic that matches different rules of the DoS policy, you apply aggregate or classified DoS profiles, or both.

## Configure a DoS Policy

1. In Director view:
  - a. Select the Administration tab in the top menu bar.
  - b. Select Appliances in the left menu bar.
  - c. Select a device name in the main panel. The view changes to Appliance view.
2. Select the Configuration tab in the top menu bar.
3. Select Services > Next Gen-Firewall > DoS > Policies in the left menu bar, or select Services > Stateful Firewall > DoS > Policies in the left menu bar, and then select an entity from the organization list.



4. Select the Policies tab, and then click the  Add icon. In the Add DoS Policy popup window, enter information for the following fields.



Add DoS Policy

Name \*

Description

Tags

OK

Cancel


Field	Description
Name (Required)	Enter a name for the DoS protection policy.
Description	Enter a text description for the DoS protection policy.
Tags	Enter a keyword or phrase that allows you to filter the policy name. Tags are useful when you have many policies and want to view those that are tagged with a particular keyword.

5. Click OK

## Configure DoS Policy Rules

A DoS policy consists of a set of rules, where each rule specifies the traffic match criteria and the action to take on matching traffic. The rules are evaluated in order, starting with the first rule. When traffic matches a rule, that rule's action is taken, and no more rules are evaluated.

To create an aggregate DoS protection policy rule:

- In Director view:
  - Select the Administration tab in the top menu bar.
  - Select Appliances in the left menu bar.
  - Select a device name in the main panel. The view changes to Appliance view.
- Select the Configuration tab in the top menu bar.
- Select Services > Next-Gen Firewall > DoS in the left menu bar, and select an entity from the Organization list.
- Select the Rules tab and click the  Add icon. The Add DoS Rule popup window displays.

[https://docs.versa-networks.com/Secure\\_SD-WAN/01\\_Configuration\\_from\\_Director/Security\\_Configuration/Configure\\_DoS\\_P...](https://docs.versa-networks.com/Secure_SD-WAN/01_Configuration_from_Director/Security_Configuration/Configure_DoS_P...)

Updated: Wed, 23 Oct 2024 08:18:35 GMT

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5. (For Releases 21.2.1 and later.) If you have already added one or more rules, the Configure Rule Order popup window displays.
- Select where you want to insert the policy rule, either at the beginning or end of the existing rules.

The screenshot shows a modal window titled "Add" with a close button (X) in the top right corner. Inside the window, there are two radio buttons: "Insert the rule last" (which is selected) and "Insert the rule top". Below these is a search bar labeled "Search Rule". Under the search bar, there is a list of results showing "1. test". Below the list, it says "End of records". At the bottom right of the window, there are two buttons: "OK" and "Cancel".

- If you select a rule and then click the Add icon, the Configure Rule Order popup window displays the following options:

**Add** [X]

☒ Insert the rule last  
☐ Insert the rule top  
☐ Insert the rule in specific placement

Search Rule

1. test
2. test1
End of records

OK Cancel

- c. Select the order to insert the rule (at the beginning or end bottom of the existing rules, or before or after the selected rule).
  - d. Click OK. The Add DoS Rule popup window displays.
6. Select the General tab and enter information for the following fields.

**Add DoS Rule** [X]

General Source Destination Headers/Schedule Enforce

Name \*

Description

Tags

☐ Disable Rule

OK Cancel

Field	Description
Name (Required)	Enter a name for the DoS rule.
Description	Enter a text description for the DoS rule.
Tags	Enter a keyword or phrase that allows you to filter the rule name. This is useful when you have many rules and want to view those that are tagged with a particular keyword.
Disable Rule	Click to disable the decryption rule.

7. Select the Source tab to define the source zone and the source address of the incoming (source) traffic to which the DoS rule applies. Enter information for the following fields.

Add DoS Rule

General
Source
Destination
Headers/Schedule
Enforce

☐
Source Zone
+ New Zone
+

Source Zone Not Configured

☐
Source Address
+ New Address
+ New Address Group
+

Source Address Not Configured

☐ Source Address Negate

☐
Region
+

Region Not Configured

☐
State
+

State Not Configured

☐
City
+

City Not Configured

☐ Source Location Negate

☐
Custom Geo Circle
+

Custom Geo Circle Not Configured

OK
Cancel

Note that in Releases 21.2 and earlier, the Source and Destination information was on the same tab.

Add DoS Rule

General

Source/Destination

Headers/Schedule

Enforce

☐

Source Zone

+ -

+ New Zone

☐

Destination Zone

+ -

+ New Zone

☐

Source Address

+ -

+ New Address Group

+ New Address

☐

Destination Address

+ -

+ New Address Group









+ New Address

☐ Source Address Negate

☐ Destination Address Negate

OK

Cancel

Field	Description
Source Zone	Select the source zone, to apply the rule to traffic originating from any interfaces in that zone. Click the  Add icon to add zones. Click  New Zone to create a new zone.
Source Address	Select the source address, to apply the rule to traffic originating from a specific IP address. Click  New Address Group to create a new address group. Click  New Address to create a new address.
Source Address Negate	Click to match any source addresses except the configured addresses.
Region	(For Releases 22.1.2 and later.) Click the  Add icon, and then select a region. To create a region, see <a href="#">Create a Region</a> .
State	(For Releases 22.1.2 and later.) Click the  Add icon, and then select a state.
City	(For Releases 22.1.2 and later.) Click the  Add icon, and then select a city.
Source Location Negate	Click to select any source locations except the configured source locations.
Custom Geo Circle	(For Releases 22.1.2 and later.) Click the  Add icon, and then select a custom geographic circle. A geographic circle consists of a point and the area enclosed by a circle drawn around that point. You specify the point by its latitude and longitude coordinates, and you specify the size of the circle by a distance. To configure a custom geographic circle, see <a href="#">Configure Custom Geographic Circles</a> .

8. Select the Destination tab to define the destination zone and the destination address of the outgoing (destination) traffic to which the DoS rule applies. Enter information for the following fields.

Add DoS Rule

General
Source
Destination
Headers/Schedule
Enforce

☐
Destination Zone
+ New Zone
+

Destination Zone Not Configured

☐
Destination Address
+ New Address
+ New Address Group
+

Destination Address Not Configured

☐ Destination Address Negate

☐
Region
+

Region Not Configured

☐
State
+

State Not Configured

☐
City
+






City Not Configured


☐ Destination Location Negate

☐
Custom Geo Circle
+

Custom Geo Circle Not Configured

OK
Cancel

Field	Description
Destination Zone	Select the destination zone, to apply the rule to traffic arriving from any interfaces into that zone. Click the  Add icon to add more destination zones. Click + New Zone to create a new zone.
Destination Address	Select the destination address, to apply the rule to traffic arriving from a specific IP address. Click the  Add icon to add more destination addresses. Click + New Address to create a new address. Click + New Address Group to create a new address group.
Destination Address Negate	Click to match any destination addresses except the configured addresses.
Region	(For Releases 22.1.2 and later.) Click the  Add icon, and then select a region. To create a region, see <a href="#">Create a Region</a>
State	(For Releases 22.1.2 and later.) Click the  Add icon, and then select a state.
City	(For Releases 22.1.2 and later.) Click the  Add icon, and then select a city.

Field	Description
Destination Location Negate	Click to select any destination locations except the configured destination locations.
Custom Geo Circle	(For Releases 22.1.2 and later.) Click the  Add icon, and then select a custom geographic circle. A geographic circle consists of a point and the area enclosed by a circle drawn around that point. You specify the point by its latitude and longitude coordinates, and you specify the size of the circle by a distance. To configure a custom geographic circle, see <a href="#">Configure Custom Geographic Circles</a> .

9. Select the Header/Schedule tab to defined match criteria based on the contents of the IP packet header and to set a time at which to apply the policy. Enter information for the following fields.

Add DoS Rule

General

Source

Destination

Headers/Schedule

Enforce

IP

IP Version

--Select--

IP Flags

--Select--

DSCP

+

TTL

Condition

Greater than or equal to

Value (Max 255)

Others

Schedules

--Select--

+ Schedule

☐

Service List


+ New Service +




Service List Not Configured

OK

Cancel



Field	Description
IP (Group of Fields)	
<ul style="list-style-type: none"> <li>IP Version</li> </ul>	<p>Select the IP version:</p> <ul style="list-style-type: none"> <li>IPv4</li> <li>IPv6</li> </ul>
<ul style="list-style-type: none"> <li>IP Flags</li> </ul>	<p>Select whether data packets can be fragmented:</p> <ul style="list-style-type: none"> <li>Don't Fragment</li> <li>More Fragments</li> </ul>
<ul style="list-style-type: none"> <li>DSCP</li> </ul>	<p>Click the  Add icon to add a differentiated services code point (DSCP) value.</p>
TTL (Group of Fields)	
<ul style="list-style-type: none"> <li>Condition</li> </ul>	<p>Select the TTL condition to use for the match. The TTL is the number of hops that a packet can travel before it is discarded and indicates the lifespan of a packet. The condition can be one of the following boolean values:</p> <ul style="list-style-type: none"> <li>Equal to</li> <li>Greater than or equal to</li> <li>Less than or equal to</li> </ul>
<ul style="list-style-type: none"> <li>Value</li> </ul>	<p>Enter the value for the TTL.</p>
Others (Group of Fields)	
<ul style="list-style-type: none"> <li>Schedules</li> </ul>	<p>Select a schedule to set the time and frequency at which the rule is in effect. Click + Schedule to create a new schedule.</p>
<ul style="list-style-type: none"> <li>+ Schedule</li> </ul>	<p>Click to create a schedule. In the Create Schedule popup window, enter information for the following fields.</p>

	<div data-bbox="857 210 1620 804"> <h3>Create Schedule</h3> <p>Name <span>*</span></p> <input type="text"/> <p>Description <span>*</span></p> <input type="text"/> <p>Tags</p> <input type="text"/> <p>Recurrence</p> <div>Non-Recurring <span>▼</span></div> <div> <div>Start Date <span>*</span> <span>📅</span></div> <div>Start Time <span>*</span> <span>⌵</span></div> <div>End Date <span>*</span> <span>📅</span></div> <div>End Time <span>*</span> <span>⌵</span></div> </div> <div> <div>yyyy/mm/dd</div> <div>--Select--</div> <div>yyyy/mm/dd</div> <div>--Select--</div> </div> <p>No records added</p> <p>OK</p> </div> <ul style="list-style-type: none"> <li>◦ Name (Required)—Enter a name for the schedule.</li> <li>◦ Description—Enter a description for the schedule.</li> <li>◦ Tags—Enter a keyword or phrase that allows you to filter the schedule name.</li> <li>◦ Recurrence—Select Non-Recurring (for a one-time schedule), Daily, or Weekly.</li> <li>◦ State Date, Start Time, End Date, and End Time (Required)—Enter or select the starting and ending date and time for the schedule. Then click the  Add icon.</li> </ul> <p>Then, click OK.</p> <p>For more information, see <a href="#">Configure Schedule Objects</a>.</p>
Services (Group of Fields)	
<ul style="list-style-type: none"> <li>◦ Service List</li> </ul>	<p>Select the services to allow or block. Click the  Add icon to select a service from the drop-down list. The list includes predefined and user-defined services. A service is defined based on the destination address and port.</p>
<ul style="list-style-type: none"> <li>◦  Service</li> </ul>	<p>Click to create a service. In the Add Service popup window, enter information for the following fields.</p>

	<div data-bbox="857 212 1624 793"> <h3>Add Service</h3> <p>Name *</p> <input type="text"/> <p>Description <span style="float: right;">Tags</span></p> <div> <input type="text"/> <input type="text"/> </div> <p> <input checked="" type="radio"/> Protocol         <input type="radio"/> Protocol Value       </p> <p>Protocol *</p> <div> <input type="text" value="TCP"/> <input type="text" value="0..255"/> </div> <p> <input type="radio"/> Port Range         <input checked="" type="radio"/> Source/Destination Port         <input type="radio"/> ICMP       </p> <p>Port ⓘ</p> <div> <input type="text"/> <div> <div>Source Port</div> <div>Destination Port</div> </div> </div> <div> <div>ICMP Type</div> <div>ICMP Code</div> </div> <div>Use /- for values</div> <div>OK</div> </div> <ul style="list-style-type: none"> <li>◦ Name (Required)—Enter a name for the service.</li> <li>◦ Description—Enter a description for the service.</li> <li>◦ Tags—Enter a keyword or phrase that allows you to filter the service name.</li> <li>◦ Protocol (Required)—Click and enter a protocol name in the second Protocol field.</li> <li>◦ Protocol Value—Click and enter a protocol number in the second Protocol Value field.</li> <li>◦ Port Range—Click and in the second Port field, enter a source or destination port number.</li> <li>◦ Source/Destination Port—Click and enter a port number in the Source Port and Destination Port fields.</li> <li>◦ ICMP—Click to enter ICMP Type and ICMP Code fields.</li> </ul> <p>Then, click OK.</p> <p>For more information, see <a href="#">Configure Service Objects</a>.</p>
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10. Select the Enforce tab to define the actions to take on the packets that match the rule. Enter information for the following fields.

Add DoS Rule

General

Source

Destination

Headers/Schedule

Enforce

Action Setting

☐ Allow

☒ Deny

☐ Protect

Logging Setting

LEF Profile

--Select--

☐ Default Profile

DDos Profile

Aggregate Profile

--Select--

Classified Profile

--Select--

OK

Cancel

Field	Description
Action Setting	<p>Select an action to take for packets that match the DoS protection policy rule:</p> <ul style="list-style-type: none"> <li>◦ Allow—Permit the packets.</li> <li>◦ Deny—Drop the packets.</li> <li>◦ Protect—Enforce protection on the packets defined in the DoS protection profile that match the rule. These packets are compared with the configured threshold rates to determine whether to trigger an alarm, activate another action, or drop a packet when the threshold rate is exceeded.</li> </ul>
DDos Profile (Group of Fields)	
◦ Aggregate Profile	Select an aggregate profile that you configured in <a href="#">Configure a DoS Protection Profile</a> , above. Click + Add New to add a new DoS profile.
◦ Classified Profile	Select the classified profile that you configured in <a href="#">Configure a DoS Protection Profile</a> , above. Click + Add New to add a new DoS profile.
Logging Setting (Group of Fields)	
◦ LEF Profile	Select a LEF profile. DoS logs are forwarded to the active collector of the LEF profile. For information about configuring a LEF profile, see <a href="#">Configure Log Export Functionality</a> . For information about associating a LEF profile to the configuration of a feature or service, see <a href="#">Apply Log Export Functionality</a> .
◦ Default Profile	Click to have the profile be the default LEF profile.

11. Click OK.

## Display DoS Policy Statistics

To view statistics about the number of packets that have matched a DoS policy rule and hence had a policy action taken on them:

1. Select the Administration tab in the top menu bar.
  - a. Select Appliances in the left menu bar.

- b. Select a device name in the main panel. The view changes to Appliance view.
2. Select the Monitor tab in the top menu bar.
3. Select the Provider Organization > Services tab.
4. Select NGFW > DoS Policies and select a DoS policy from the drop-down. The DoS policy statistics display.

The screenshot shows the Versa Networks Appliance View interface. The top navigation bar includes tabs for Director View, Appliance View (selected), and Template View. Below this is a sub-navigation bar with tabs for Monitor, Analytics, Configuration, and Administration. The Monitor tab is selected, and the Organization is set to Tenant1. The main content area shows the DoS Policies configuration page. The interface includes a top navigation bar with tabs like SDWAN, NGFW, CGNAT, Secure Access, SDLAN, IPsec, Sessions, SCI, and APM. The NGFW tab is selected, and the DoS Policies sub-tab is active. A dropdown menu shows 'Default-Policy'. Below this is a table of DoS policies with columns for Rule Name, UDP Drop Count, ICMP Drop Count, ICMPv6 Drop Count, OIP Drop Count, TCP Syn Drop Count, DoS Hit Count, Sctp Drop Count, and Session Drop Count. Two policies are listed: 'test' and 'test1', both with zero drop counts.

Rule Name	UDP Drop Count	ICMP Drop Count	ICMPv6 Drop Count	OIP Drop Count	TCP Syn Drop Count	DoS Hit Count	Sctp Drop Count	Session Drop Count
test	0	0	0	0	0	0	0	0
test1	0	0	0	0	0	0	0	0

5. Click a rule name to view its configuration.

The screenshot shows the Configuration : test1 dialog box. The dialog has a title bar with a close button (X). The main content area displays the configuration for the 'test1' rule. The configuration is shown in a JSON-like format:

```
{
  - dos-policy: {
    name: "test1",
    rule-disable: false,
    - set: {
      action: "allow"
    }
  }
}
```


## Monitor DoS Threats

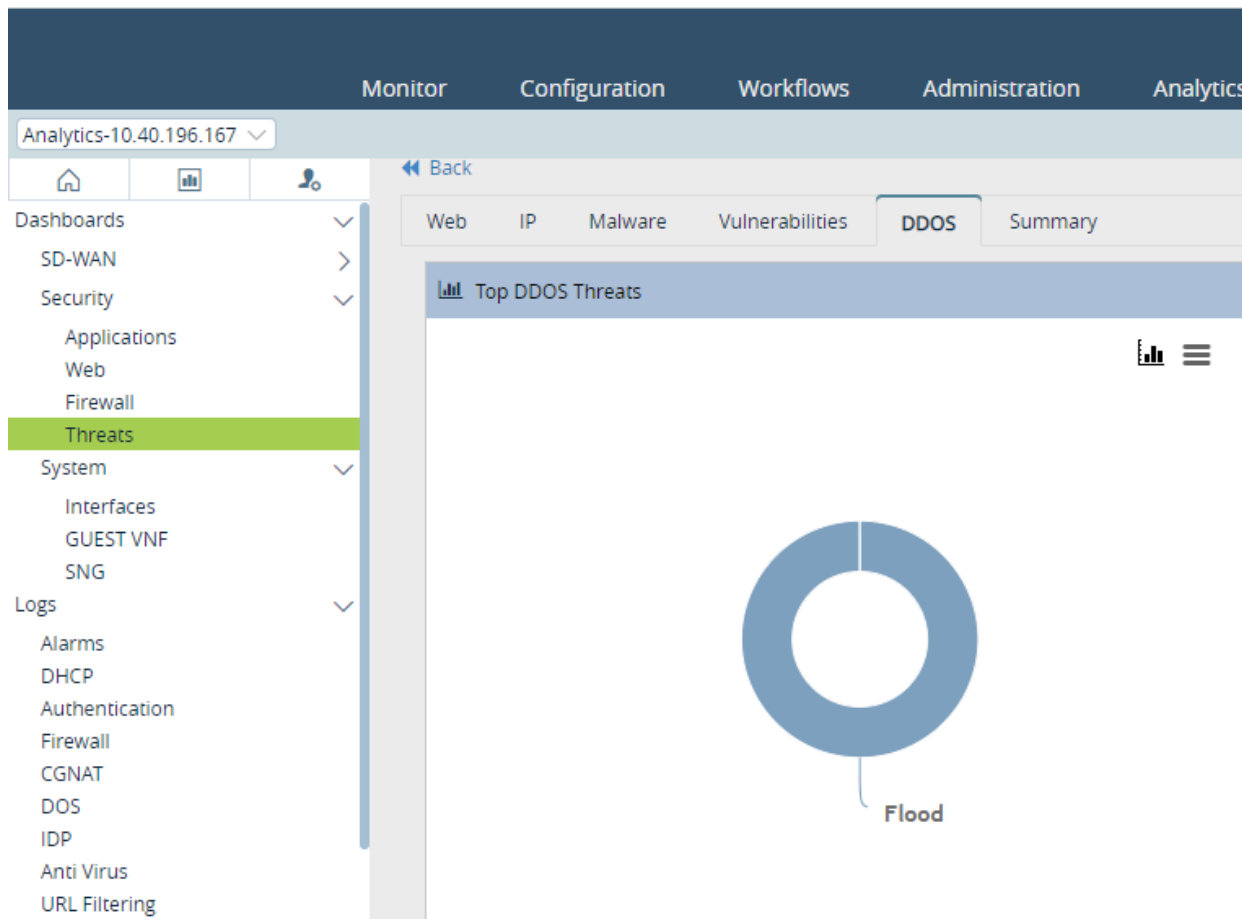
To monitor the DoS threats that are occurring in your network, view DoS threat monitoring reports:

[https://docs.versa-networks.com/Secure\\_SD-WAN/01\\_Configuration\\_from\\_Director/Security\\_Configuration/Configure\\_DoS\\_P...](https://docs.versa-networks.com/Secure_SD-WAN/01_Configuration_from_Director/Security_Configuration/Configure_DoS_P...)

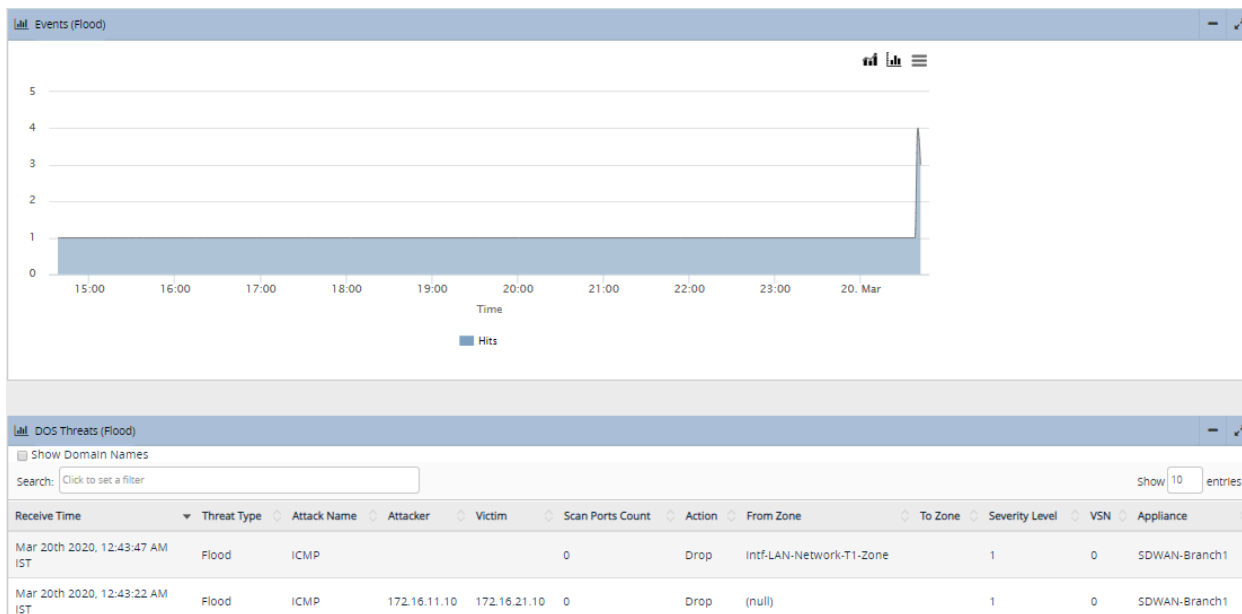
Updated: Wed, 23 Oct 2024 08:18:35 GMT

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1. In Director view, select the Analytics tab from the top menu bar. The view changes to Analytics view.
2. Select Home  > Security > Threats in the left menu bar to view the security threats dashboard. For more information, see [Security Dashboard](#).
3. Select the DoS tab to display information about the top DoS threats.



4. Drill down to display detailed DoS logs matching the drill key.



4. Select Home > Logs > DoS in the left menu bar to display DoS threat logs.

**DOS Threat Log**

Show Domain Names  
Search:  Show 10 entries

Receive Time	Threat Type	Attack Name	Attacker	Victim	Scan Ports Count	Action	From Zone	To Zone	Severity Level	VSN	Appliance
Mar 20th 2020, 12:43:22 AM IST	Flood	ICMP	172.16.11.10	172.16.21.10	0	Drop	(null)		1	0	SDWAN-Branch1
Mar 20th 2020, 12:42:48 AM IST	Flood	TCP SYN			0	Drop	Intf-LAN-Network-T1-Zone		1	0	SDWAN-Branch1
Mar 20th 2020, 12:41:45 AM IST	Flood	TCP SYN	172.16.11.10	172.16.21.10	0	Drop	(null)		1	0	SDWAN-Branch1
Mar 20th 2020, 12:41:10 AM IST	Flood	TCP SYN	172.16.11.10	172.16.21.10	0	Drop	(null)		1	0	SDWAN-Branch1

## Supported Software Information

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

- Releases 21.2.1 and later support configuring rule order for DoS policy rules.

[https://docs.versa-networks.com/Secure\\_SD-WAN/01\\_Configuration\\_from\\_Director/Security\\_Configuration/Configure\\_DoS\\_P...](https://docs.versa-networks.com/Secure_SD-WAN/01_Configuration_from_Director/Security_Configuration/Configure_DoS_P...)

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## Additional Information

[Apply Log Export Functionality](#)

[Configure Log Export Functionality](#)

[Monitor Device Services](#)

[Security Dashboards](#)

[Versa Analytics Scaling Recommendations](#)