

### Configure Custom URL-Filtering Profiles



For supported software information, click here.

URL-filtering profiles enforce actions on HTTP flows based on URL category and URL reputation. You can use predefined URL-filtering profiles, and you can create custom profiles that you can use when configuring internet protection rules. You can use custom URL-filtering profiles for devices that are connected to a Secure Web Gateway (SWG) and want to send traffic to the internet. You can use a single URL-filtering profile with one or more internet protection rules. URL filtering processes any traffic that matches an internet protection rule in a URL-filtering profile. Any logs that are generated are sent to the logging profile associated with the URL-filtering profile.

This article describes how to configure custom URL-filtering profiles and how to view URL categories.

# Configure Custom URL-Filtering Profiles

In URL-filtering profiles, you can create allow lists and deny lists of URLs.

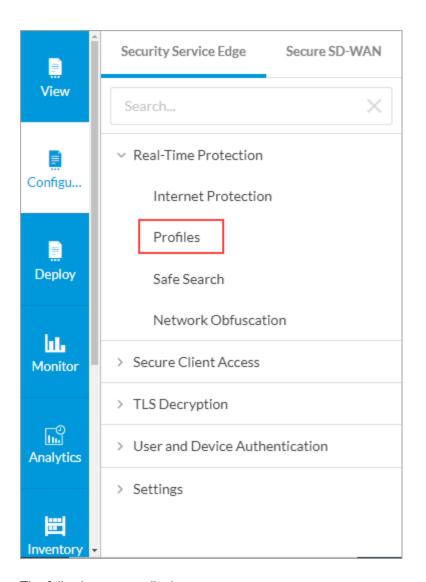
The URL-filtering profile processes enforceable actions for a session in the following order:

- Deny-listed URLs—Specify either fixed strings or regular expression (regex) patterns to match deny-listed URLs. Specify the deny list action to take for all matching HTTP flows. If you do not configure a deny list action, the default action is taken, which is to drop the session.
- Allow-listed URLs—Specify either fixed strings or perl-compatible regular expression (PCRE) patterns to match allow-listed URLs. URLs that match the allow list configuration are allowed, and no security actions are taken. Optionally, you can enable logging to create a log of allow-listed URLs.
- Category action map—Create a set of rules that specify the URL-filtering action to take for each URL category that
  is associated with a URL. In each rule, you can specify one or more predefined or custom URL categories. The
  action can be a packet or session action, or a predefined or custom captive portal action. VOS devices evaluate
  URL category and URL reputation action rules simultaneously, and they enforce the more severe action. For
  example, if the category rule action is to block and the reputation rule is to allow, the block action is taken.
- Reputation action map—Create a set of rules that specify the URL-filtering action to take for each URL reputation that is associated with the URL. In each rule, you can specify one or more URL reputation values. The action can be a packet or session action, or a predefined or custom captive portal action.

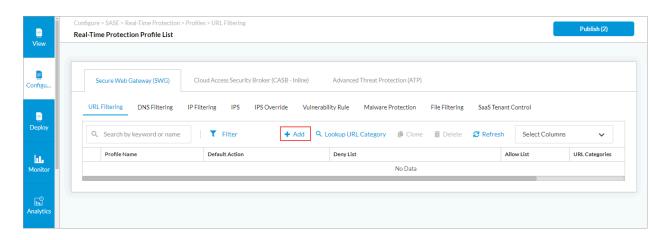
If this evaluation does not determine an action, the default action configured for the URL-filtering profile is taken.

To configure custom URL-filtering profiles:

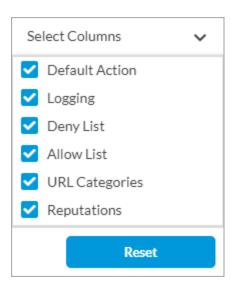
1. Go to Configure > Real-Time Protection > Profiles:



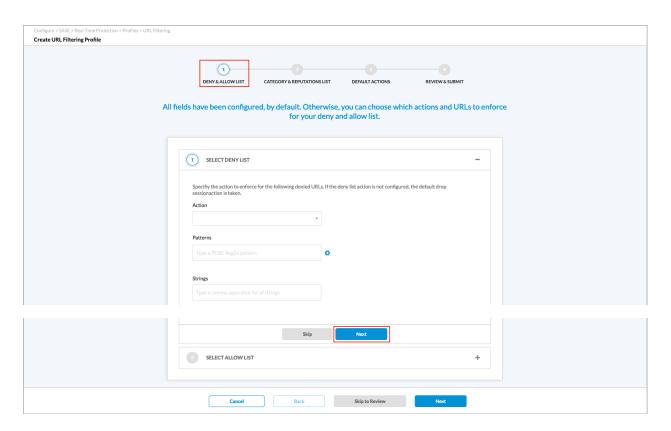
#### The following screen displays:



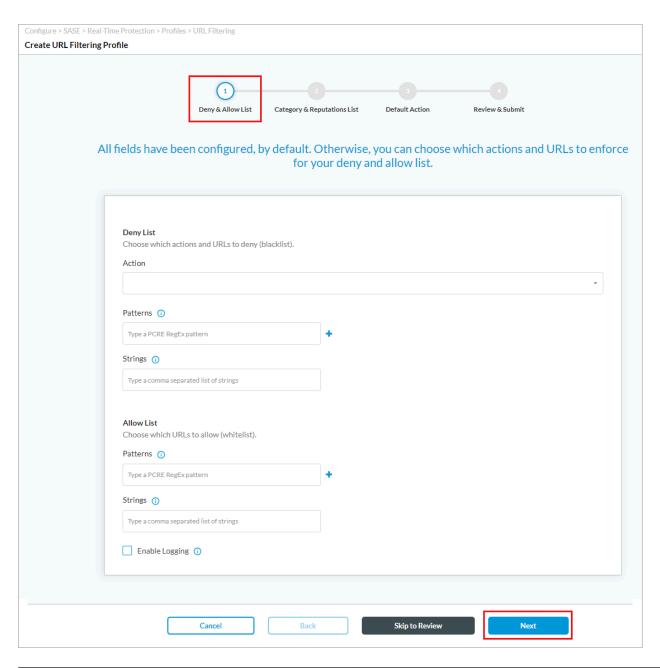
2. To customize which columns display, click Select Columns and then click the columns to select or deselect the ones you want to display. Click Reset to return to the default columns settings.



3. Click + Add to create a rule. The Create URL Filtering screen displays with Deny and Allow List selected by default. By default, all fields are configured. You can customize the actions and URLs to enforce by entering the following information in the Deny and Allow List section. Enter information for the following fields.



For Releases 12.1.1 and later, Deny List and Allow List display on the same screen, and you do not have to click Next to move to the Allow List section. The fields are the same.

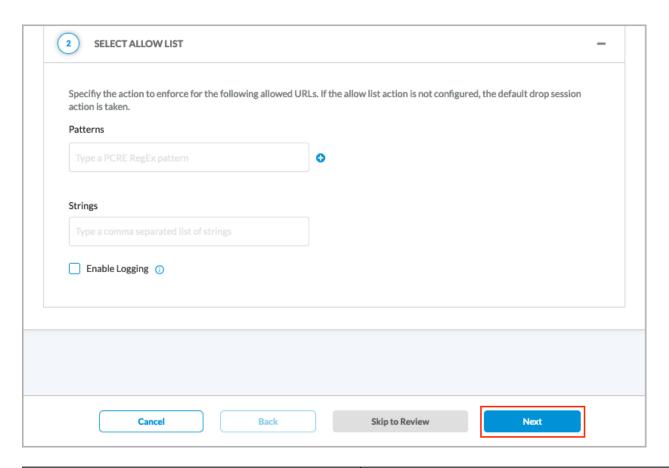


Field	Description
Action	Select the action to apply to the URL filter:  Alert—Allow the URL and generate an entry in the URL-filtering log.  Allow—Allow the URL without generating an entry in the URL-filtering log.  Ask—The browser presents an information page

https://docs.versa-networks.com/Security\_Service\_Edge\_(SSE)/Configuration\_from\_Concerto/Configure\_Custom\_URL-Filteri... Updated: Wed, 23 Oct 2024 08:35:38 GMT

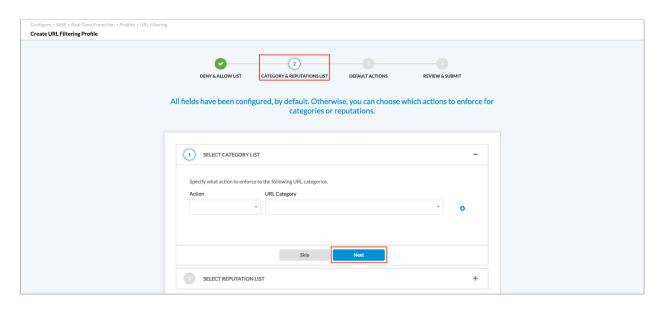
Field	Description
	that allows the user to either cancel the operation by clicking Cancel or continue with the operation by clicking OK (for HTTP and HTTPS).
	<ul> <li>Block—Block the URL and generate an entry in the URL-filtering log. No response page is display, and the user cannot continue with the website.</li> </ul>
	<ul> <li>Drop packet—The browser waits for a response from the server and then drops the packets. It is not possible to determine whether the packet was dropped because of no response from the server or because a firewall blocked access to the website.</li> </ul>
	<ul> <li>Drop session—The browser waits for a response from the server and drops the session. It is not possible to determine whether the session was dropped because of no response from the server or because a firewall blocked access to the website.</li> </ul>
	<ul> <li>Justify—The browser presents an information page that allows the user to either cancel the operation by clicking Cancel or continue with the operation after entering a justification message and clicking OK (for HTTP and HTTPS).</li> </ul>
	<ul> <li>Reject—The browser displays an alert and resets the connection to the server. It is not possible to determine whether this occurred because of no response from the server or because a firewall blocked access to the website.</li> </ul>
	Note that all actions except Allow generate an entry in the URL-filtering log.
Patterns	Add specific URL patterns to block. You can specify a fixed string or a perl-compatible regular expression
	(PCRE). Click the • Add icon to add more patterns.
Strings	Enter the complete URL string of a URL to block.

4. Click Next. In the Select Allow List section, enter information for the following fields.

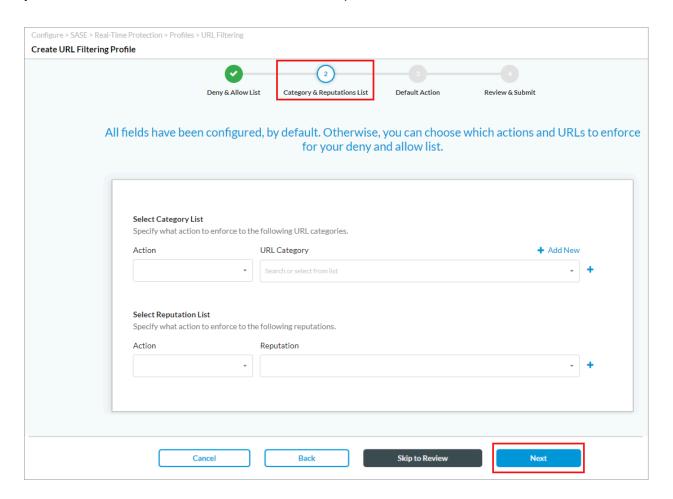


Field	Description
	Enter specific URL patterns to allow. You can specify
Patterns	a fixed string or a PCRE. Click the  Add icon to add more patterns.
Strings	Enter the complete URL string of a URL to allow.
Enable Logging	Click to send the log information about the listed URLs to Versa Analytics.

5. Click Next to go to the Category and Reputations List screen. In the Select Category List section, enter information for the following fields. Note that you can specify a category or a reputation, or both. If you specify both, URLs must match both the category and the reputation.

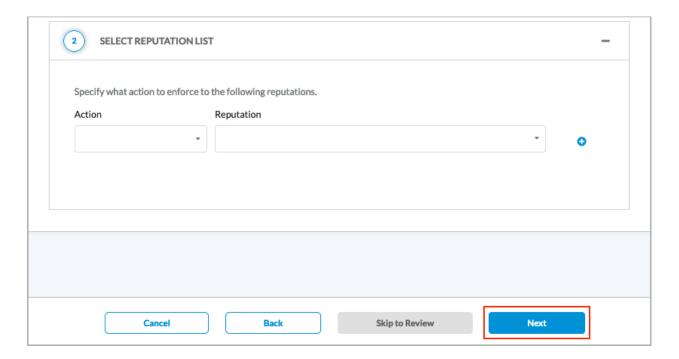


For Releases 12.1.1 and later, Select Category List and Select Reputation List display on the same screen, and you do not have to click Next to move to the Select Reputation List section. The fields are the same.



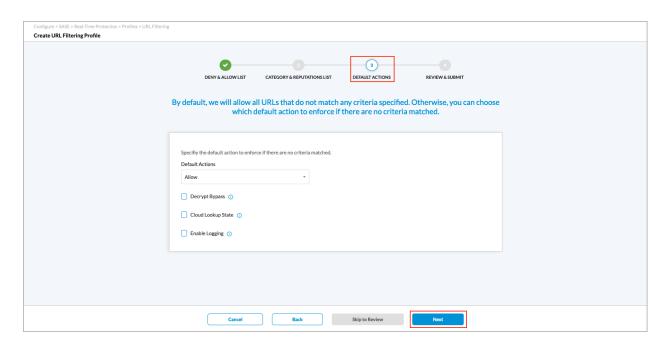
Field	Description
Action	Select the action to enforce on a specific URL category match:  Alert—Allow the URL and generate an entry in the URL-filtering log.  Allow—Allow the URL without generating an entry in the URL-filtering log.  Ask—The browser presents an information page that allows the user to either cancel the operation by clicking Cancel or continue with the operation by clicking OK (for HTTP and HTTPS).  Block—Block the URL and generate an entry in the URL-filtering log. No response page is display, and the user cannot continue with the website.  Drop packet—The browser waits for a response from the server and then drops the packets. It is not possible to determine whether the packet was dropped because of no response from the server or because a firewall blocked access to the website.  Drop session—The browser waits for a response from the server and drops the session. It is not possible to determine whether the session was dropped because of no response from the server or because a firewall blocked access to the website.  Justify—The browser presents an information page that allows the user to either cancel the operation by clicking Cancel or continue with the operation after entering a justification message and clicking OK (for HTTP and HTTPS).  Reject—The browser displays an alert and resets the connection to the server. It is not possible to determine whether this occurred because of no response from the server or because a firewall blocked access to the website.
URL Category	Select one or more URL categories on which to take the specified action. Click the • Add icon to add more URL categories.

6. Click Next. In the Select Reputation List section, enter information for the following fields.

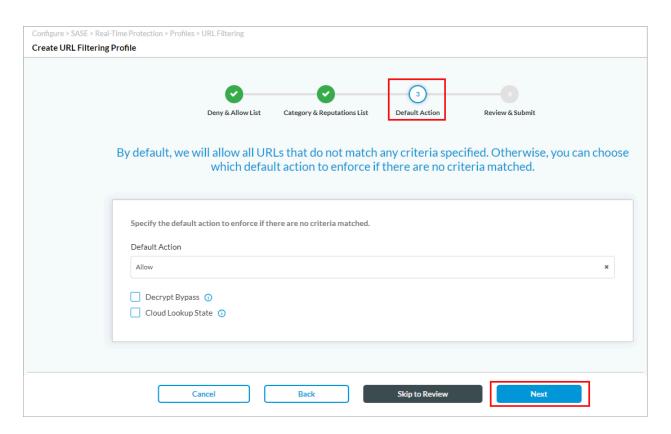


Field	Description
Action	Select the action to enforce on a specific URL category match:  Alert—Allow the URL and generate an entry in the URL-filtering log.  Allow—Allow the URL without generating an entry in the URL-filtering log.  Ask—The browser presents an information page that allows the user to either cancel the operation by clicking Cancel or continue with the operation by clicking Cancel or continue with the operation by clicking OK (for HTTP and HTTPS).  Block—Block the URL and generate an entry in the URL filtering log. No response page is display, and the user cannot continue with the website.  Drop packet—The browser waits for a response from the server and then drops the packets. It is not possible to determine whether the packet was dropped because of no response from the server or because a firewall blocked access to the website.  Drop session—The browser waits for a response from the server and drops the session. It is not possible to determine whether the session was dropped because of no response from the server or because a firewall blocked access to the website.  Justify—The browser presents an information page that allows the user to either cancel the operation by clicking Cancel or continue with the operation after entering a justification message and clicking OK (for HTTP and HTTPS).  Reject—The browser displays an alert and resets the connection to the server or because a firewall blocked access to the website to determine whether this occurred because of no response from the server or because a firewall blocked access to the website.
	Note that all actions except Allow generate an entry in the URL-filtering log.
Reputation	Select the reputation on which to take the specified action. Click the   Add icon to add more reputations.

7. Click Next to go to the Default Actions screen, and then enter information for the following fields. If you do not specify an action in the category and reputation lists, the default action is taken.

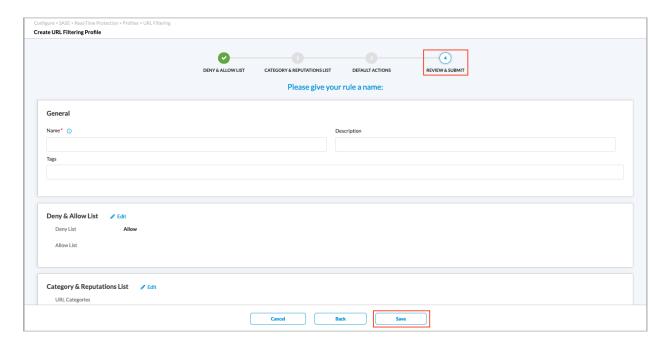


For Releases 12.1.1 and later, the Default Action screen does not display the Enable Logging field.

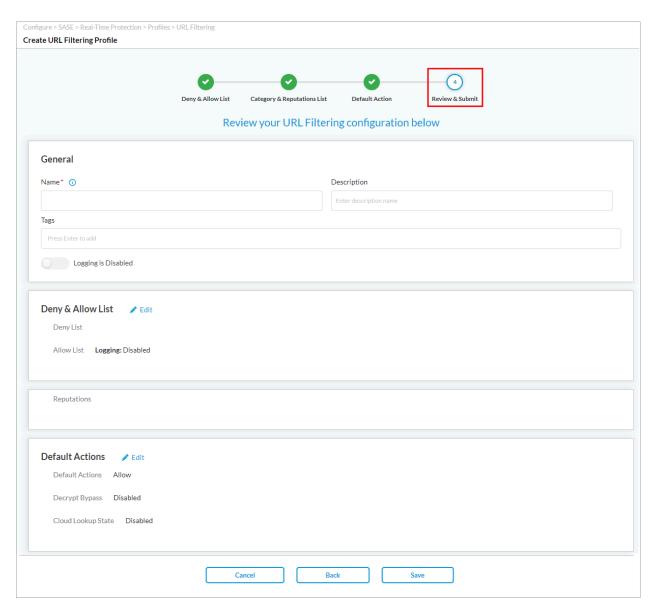


	captive portal redirection. The decryption policy decrypts SSL sessions to display only the captive portal response. After the captive portal action is performed, SSL decryption is bypassed, and users can directly access the URL. To disable decryption for traffic matching a custom action, select a custom action (Default action) and select Decrypt-Bypass.  If you do not select the Decrypt Bypass option, SSL decryption is enabled and URL filtering uses the host and URI of the actual URL for categorization. This action further decrypts captive portal redirection from actions such as Ask and Justify.
Cloud Lookup State	Click to enable cloud lookup. If the cloud lookup state is not enabled for this profile, it is inherited from the tenant VOS device.
(Releases 11.4.1 and earlier) Enable Logging	Click to send log information to Versa Analytics.

8. Click Next to go to the Review and Deploy screen.



Releases 12.1.1 and later:



- 9. In the General section, enter a name for the URL-filtering profile and, optionally, a description and tags.
- 10. For all other sections, review the information. If you need to make changes, click the Edit icon.
- 11. Click Save.

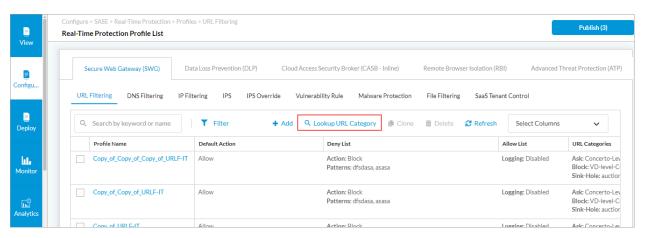
## **Display URL Categories**

For Releases 12.1.1 and later.

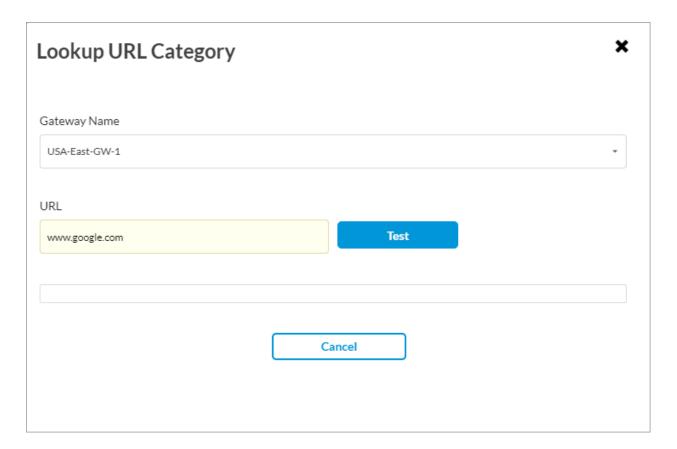
You can look up the category for a URL in the database of predefined URLs, and you can display information about the URL and its reputation.

To display information about a predefined URL:

- 1. Go to Configure > Real-Time Protection > Profiles > Secure Web Gateway (SWG) > URL Filtering.



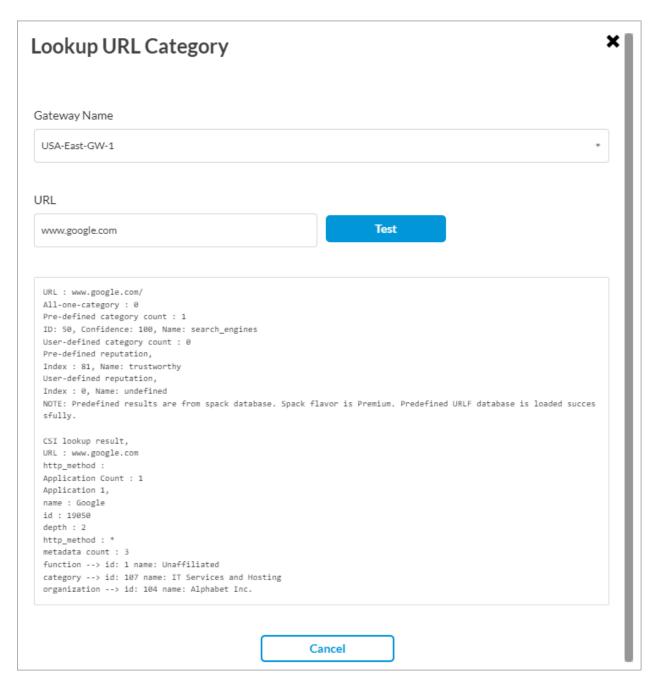
3. In the Look Up URL Category popup window, enter information for the following fields.



Field	Description
Gateway Name	Select the organization for which you want to look up the URL category.

Field	Description
URL	Enter the URL for which you want to look up the URL category. For example, www.google.com.

4. Click Test. The Look Up URL Category popup window displays information about the URL, including its predefined category and reputation. For example:



5. Click Cancel.

# **Supported Software Information**

Releases 11.1.1 and later support all content described in this article, except:

• Release 12.1.1 adds support for looking up the category of a predefined URL. Fields in Create URL Filtering Profile screen display on a single screen and not sections.

#### **Additional Information**

Configure SASE Internet Protection Rules