

# Configure Web Filtering on the RV13x and RV32x Series Routers

## Objective

Web filtering is a feature on your router that can enhance an already secured network and promote productivity in the workplace by screening websites according to a score on a Web Reputation Index, adding keywords or domain names to a blacklist, and by server IP address.

An administrator or a company may have existing guidelines that discuss general network security, the Internet of things, and rules they want to implement on a network yet find an exception to the rules when it comes to a particular department. The administrator can create scheduled rules and bind them to exception lists granting access to specific websites during a certain time of the day or granting access to all websites to a specific user or users while the rest of the users on the network have denied access.

This article aims to show you how to configure web filtering on the RV Series Routers. This configuration will also emphasize the importance of the features.

## Applicable Devices

- RV130
- RV130W
- RV325
- RV320

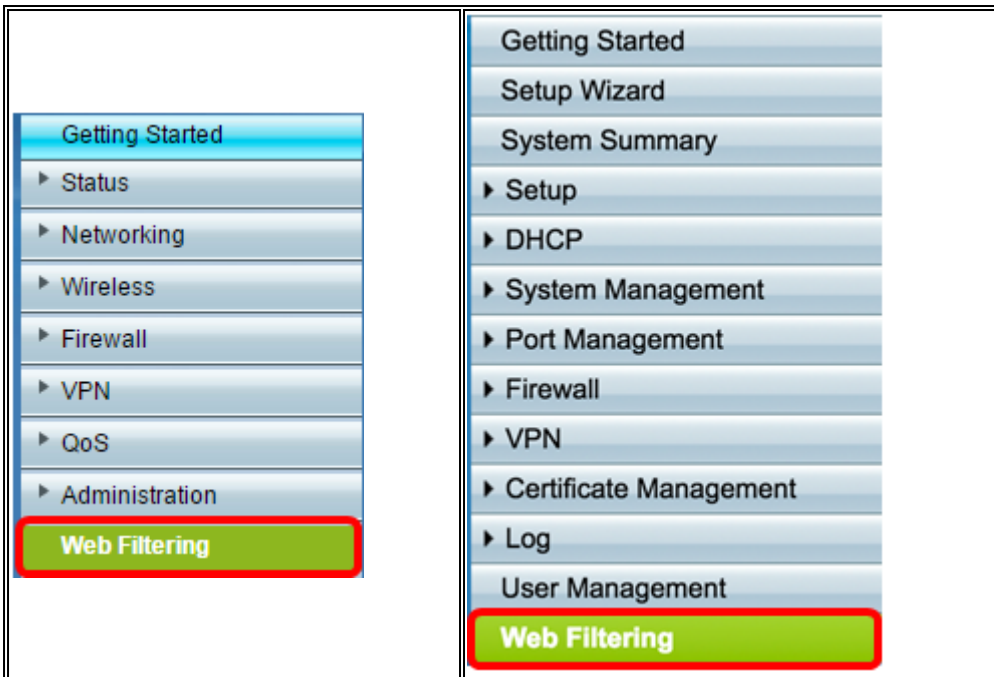
## Software Version

- 1.0.3.14 – RV130, RV130W
- 1.3.1.12 – RV320, RV325

## Configure Web Filtering

Step 1. Log in to the web-based utility and choose **Web Filtering**.

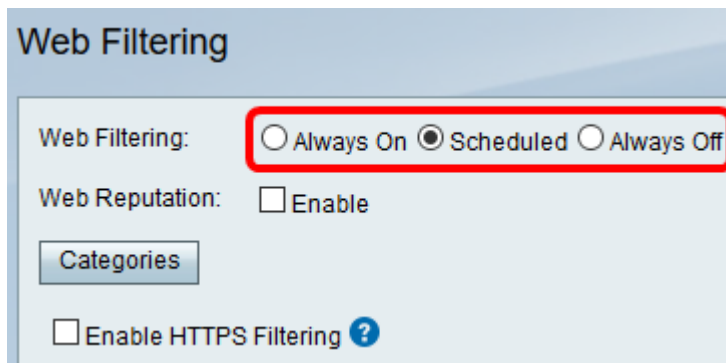
RV130, RV130W	RV320, RV325
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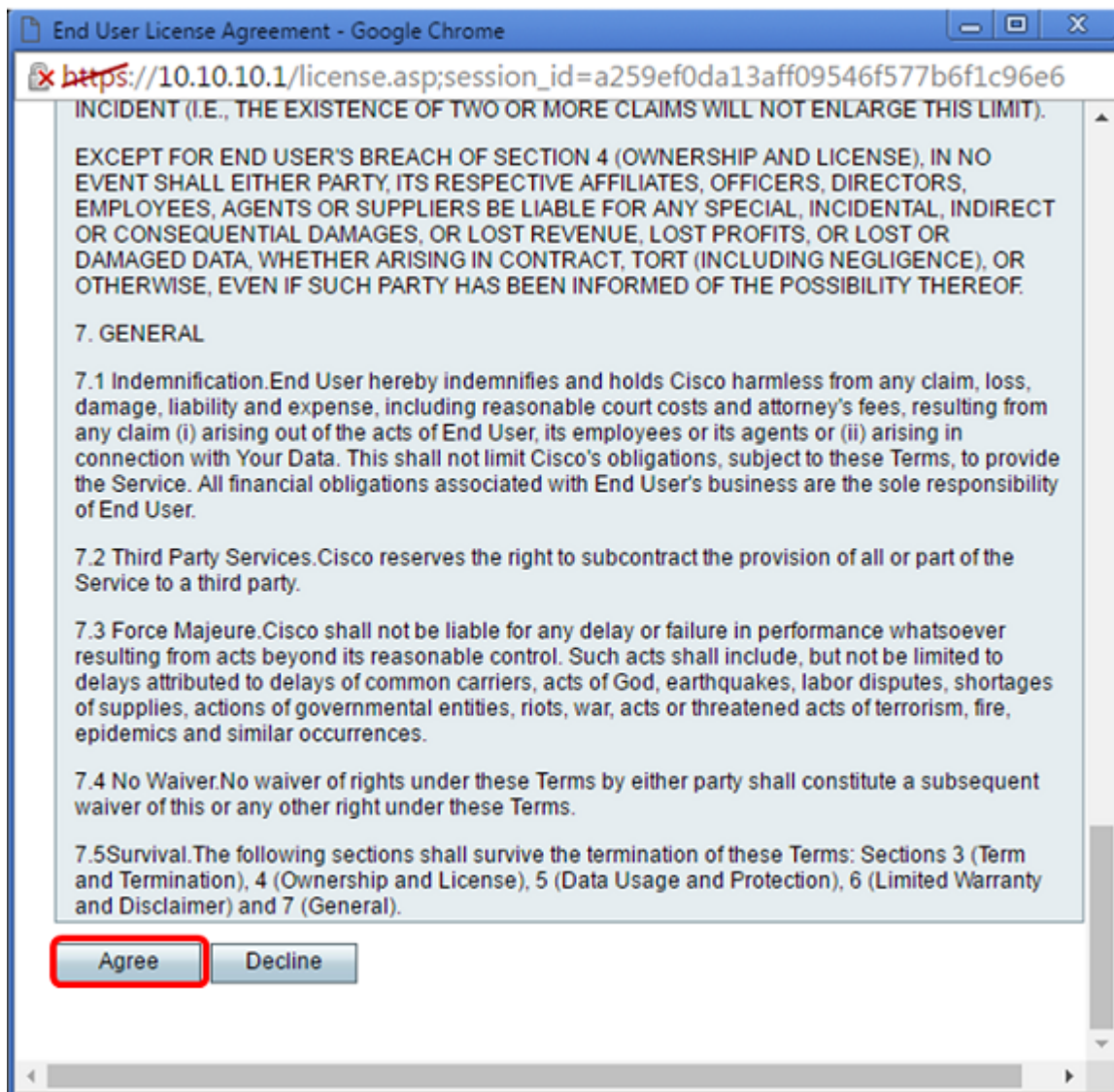
Step 2. Choose a radio button in the Web Filtering area. By default, Web Filtering is set to Always Off. The options are:

- Always On — Web filtering is always enabled.
- Scheduled — Set a schedule to implement web filtering.
- Always Off — Disables web filtering.

**Note:** For this example, a scheduled web filter will be created.



Step 3. The End User License Agreement will appear as soon as web filtering is enabled by choosing either Always On or Scheduled. Go over the agreement and click **Agree** to continue with the setup.



Step 4. Click **Save**.

**Web Filtering**

Web Filtering:  Always On  Scheduled  Always Off

Web Reputation:  Enable

Enable HTTPS Filtering ?

**Schedule Table**

<input type="checkbox"/>	Name	Description
<input type="checkbox"/>	No data to display	

Step 5. Check the Web Reputation check box to enable filtering based on a web reputation index.

**Note:** Content will be filtered according to the notoriety of a website or URL based on a web reputation index. If the score falls below 40, the website will be blocked. To read more about web reputation, click [here](#).

**Web Filtering**

Web Filtering:  Always On  Scheduled  Always Off

Web Reputation:  Enable

Enable HTTPS Filtering ?

Step 6. Click **Categories** to manage and apply filters. You will be taken to the Category page.

**Web Filtering**

Web Filtering:  Always On  Scheduled  Always Off

Web Reputation:  Enable

Enable HTTPS Filtering ?

Step 7. Click a radio button to quickly define the filtering extent that would best fit the network policies. The options are High, Medium, Low, and Custom.

- Low — Adult/Mature Content and Security are enabled with this option. Check the appropriate sub check boxes to further fine tune your filter.
- Medium — Adult/Mature Content, Illegal/Questionable, and Security are enabled with this option. Check the appropriate sub check boxes to further fine tune your filter.
- High — Adult/Mature Content, Business/Investment, Entertainment, Illegal/Questionable, IT Resources, Lifestyle/Culture, and Security are enabled with this option. Check the appropriate sub check boxes to further fine tune your filter.
- Custom — No defaults to allow custom admin-created filters.

**Note:** For this example, a medium category is chosen.

## Web Filtering

### Categories

- High
- Medium
- Low
- Custom

Adult/Mature Content(6) ▶

Business/Investment(13) ▶

Entertainment(9) ▶

Illegal/Questionable(14) ▶

IT Resources(6) ▶

Lifestyle/Culture(15) ▶

Other(6) ▶

Security(11) ▶

Restore to Default Categories

Save

Cancel

Back

Step 8. Click **Save** and **Back** to return to the Filter page to continue the setup.

## Web Filtering

Categories

High

Medium

Low

Custom

Adult/Mature Content(6) ▶

Business/Investment(13) ▶

Entertainment(9) ▶

Illegal/Questionable(14) ▶

IT Resources(6) ▶

Lifestyle/Culture(15) ▶

Other(6) ▶

Security(11) ▶

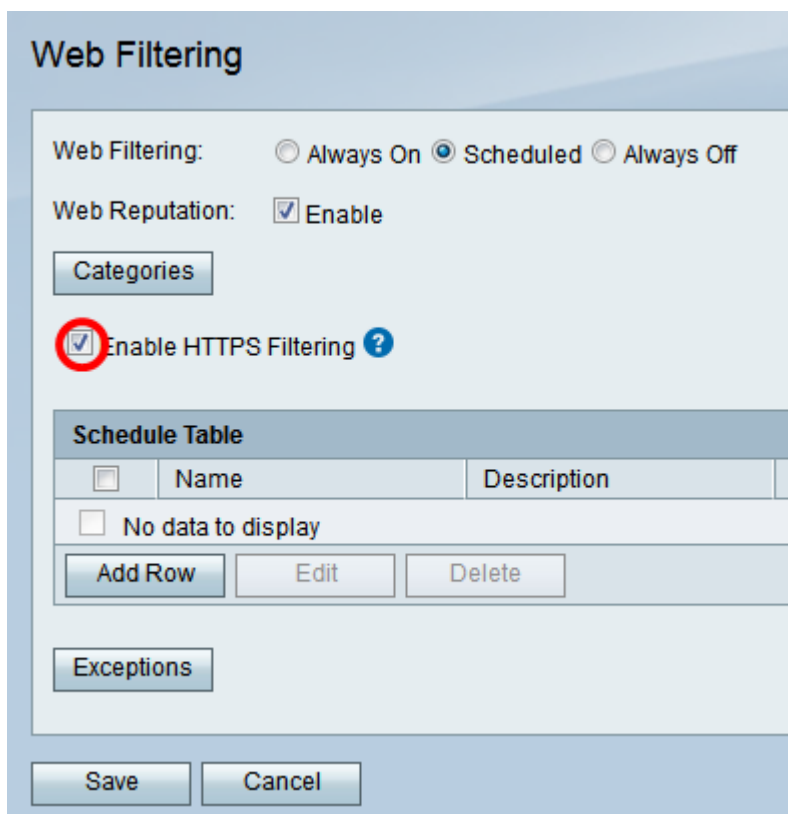
Restore to Default Categories

Save Cancel Back

Step 9. Check the Enable HTTPS filtering check box to filter content based on the web server's IP address instead of the URL. Websites with secured HTTP or HTTPS will be accessible. If you want to block websites regardless of a secured URL, leave the check box unchecked.

**Note:** Since the URL is encrypted, often multiple websites will use the same web server IP

address. If that is the case, the router will not block that page if there are multiple website categories associated with that IP address. However, the router will block the page if there is only one category associated with that page, if adult content hosts are associated, or if the IP address is known to host or distribute malware.



**Web Filtering**

Web Filtering:  Always On  Scheduled  Always Off

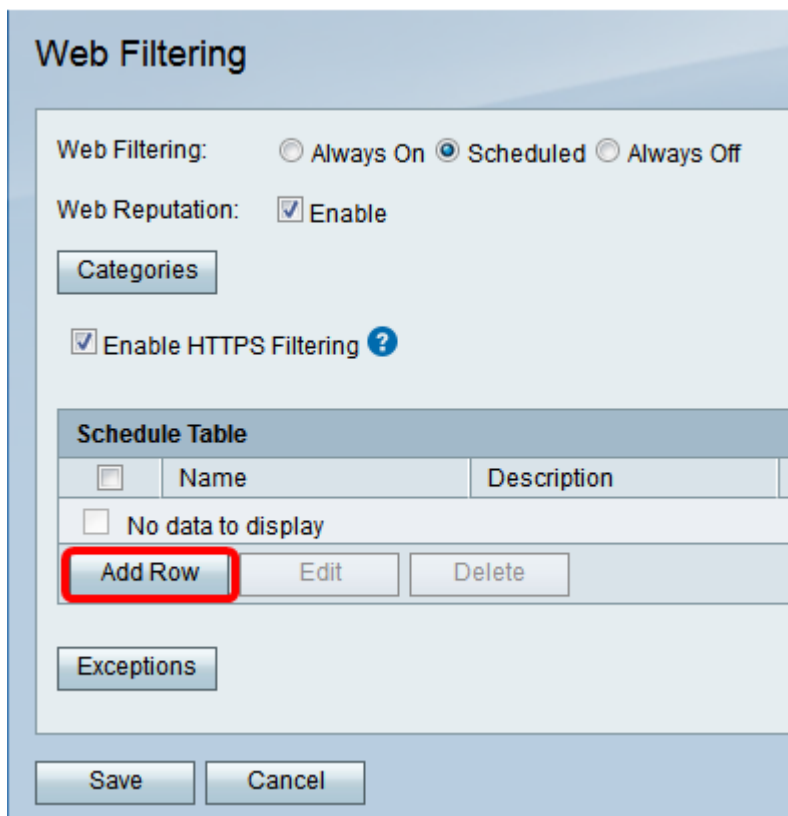
Web Reputation:  Enable

Enable HTTPS Filtering ?

**Schedule Table**

<input type="checkbox"/>	Name	Description
<input type="checkbox"/>	No data to display	

Step 10. Under Schedule Table, click **Add Row** to create a scheduled rule or policy to be implemented.



**Web Filtering**

Web Filtering:  Always On  Scheduled  Always Off

Web Reputation:  Enable

Enable HTTPS Filtering ?

**Schedule Table**

<input type="checkbox"/>	Name	Description
<input type="checkbox"/>	No data to display	

Step 11. Create a user-defined name in the *Name* Field to make identifying rules easier.



**Note:** In the example below, Medium Filter is used.

Schedule Table	
<input type="checkbox"/>	Name
<input checked="" type="checkbox"/>	Medium Filter

Add Row Edit Delete

Step 12. Enter a description for this rule in the *Description* field to make identifying rules and policies easier.

**Note:** In the example below, blocks adult/mature, social media on MWF is used.

Description
blocks adult/mature, social media on MWF

Step 13. Check the check box for the day of the week you would like this rule to take effect.

**Note:** For this example, Monday, Wednesday, and Friday have been selected.

Showing 1 - 5 of 0 5 per page									
Sun	Mon	Tue	Wed	Thu	Fri	Sat	Start(hh:mm)	End(hh:mm)	Active
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	08:00	17:00	<input checked="" type="checkbox"/>

Page 1 of 0

Step 14. Using military time, enter the time of the day you would like for the rule to take effect. This allows you to switch rules and policies through out the day.

**Note:** For this example, 08:00 to 17:00 is used.

Showing 1 - 5 of 0 5 per page									
Sun	Mon	Tue	Wed	Thu	Fri	Sat	Start(hh:mm)	End(hh:mm)	Active
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	08:00	17:00	<input checked="" type="checkbox"/>

Page 1 of 0

Step 15. Check the Active check box to enable the scheduled rule.

Showing 1 - 5 of 0 5 per page									
Sun	Mon	Tue	Wed	Thu	Fri	Sat	Start(hh:mm)	End(hh:mm)	Active
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	08:00	17:00	<input checked="" type="checkbox"/>

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**Note:** There is no limit to the number of rules to be implemented.

Step 16. Click **Save**.

**Note:** It is important to save your configuration after enabling/disabling. Otherwise, you will lose your settings after moving through the different steps of the setup.

Schedule Table		
<input type="checkbox"/>	Name	Description
<input type="checkbox"/>	Medium Filter	blocks adult/matu
<input type="button" value="Add Row"/>	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
<input type="button" value="Exceptions"/>		
<input type="button" value="Save"/>	<input type="button" value="Cancel"/>	

Step 17 (Optional). Click **Exceptions**. You will be taken to the exceptions list page.

Schedule Table		
<input type="checkbox"/>	Name	Description
<input type="checkbox"/>	Medium Filter	blocks adult/matu
<input type="button" value="Add Row"/>	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
<input type="button" value="Exceptions"/>		
<input type="button" value="Save"/>	<input type="button" value="Cancel"/>	

### Web Filtering

White List		
<input type="checkbox"/>	Type	Value
<input type="checkbox"/> No data to display		
<input type="button" value="Add Row"/>	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>

Black List		
<input type="checkbox"/>	Type	Value
<input type="checkbox"/> No data to display		
<input type="button" value="Add Row"/>	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>

Exculsion List		
<input type="checkbox"/>	Type	Value
<input type="checkbox"/> No data to display		
<input type="button" value="Add Row"/>	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>

Step 18 (Optional). Create a list to either allow, deny, or exclude in the filtering process. Choose the type of list you want to create. The options are:

- White List — If the incoming URL is included in the White List, the URL is allowed. If not, check the web category.
- Black List — If the incoming URL is included in the Blacklist, the URL is not allowed.
- Exclusion List — If the incoming URL is in the Exclusion List and its Web Reputation index value is not lower than 40, the URL is safe and allowed and vice versa. If the incoming URL is not in the Exclusion List, check if it is in the Black List. If it is in the Black List, the URL is blocked. If it is not in the Black List, check if it is in the White List.

**Note:** If the reputation index value of a URL is not lower than 40, then it is safe and will be allowed access.

Step 19. To create an entry, click **Add Row**.

**Note:** For this example, a Black List is created.

The screenshot shows the 'Web Filtering' configuration page. It contains three sections: 'White List', 'Black List', and 'Exclusion List'. Each section has a table with columns for 'Type' and 'Value'. Below each table is an 'Add Row' button, an 'Edit' button, and a 'Delete' button. The 'Add Row' button for the 'Black List' section is highlighted with a red box. At the bottom of the page are 'Save', 'Cancel', and 'Back' buttons.

Step 20. From the Type drop-down list, select whether you want data to be blocked according to a keyword, or through a domain name.

**Note:** For this example, Domain Name is chosen.

**Black List**

<input type="checkbox"/>	Type	Value
<input type="checkbox"/>	Domain Name	

**Excursion List**

No data to display

Buttons: Add Row, Edit, Delete, Save, Cancel, Back

Step 21. In the *Value* field, enter the domain name.

**Note:** For this example, [www.facebook.com](http://www.facebook.com) is used. If HTTPS filtering is enabled, any incoming URL using HTTPS will not be blocked.

You must save before you can edit or delete.

**Black List**

<input type="checkbox"/>	Type	Value
<input checked="" type="checkbox"/>	Domain Name	www.facebook.com

Buttons: Add Row, Edit, Delete, Save, Cancel, Back

Step 22. Click Save.

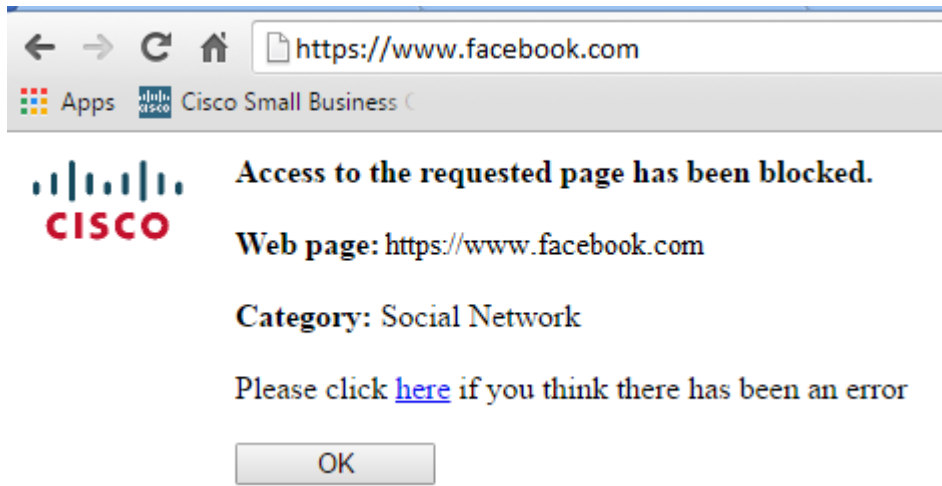
**Schedule Table**

<input type="checkbox"/>	Name	Description
<input type="checkbox"/>	Medium Filter	blocks adult/mature, social media

Buttons: Add Row, Edit, Delete, Exceptions, Save, Cancel

Step 23 (Optional). To verify that a website or URL has been filtered or blocked, go to a web browser and enter the domain name you have just blacklisted.

**Note:** In this example, it would be [www.facebook.com](http://www.facebook.com).



You should now have successfully configured web filtering on your router.