Block HTTPS Access for a Particular Site on RV016, RV042, RV042G and RV082 VPN Routers

Objective

Hyper Text Transfer Protocol Secure (HTTPS) is a combination of Hyper Text Transfer Protocol (HTTP) with SSL/TLS protocol to provide encrypted communication or secure communication.

This document explains how to block users from accessing desired https websites or URLs. This will help the user to block unwanted or known malicious sites for security and other reasons like parental controls.

Applicable Devices

- RV016
- RV042
- RV042G
- RV082

Software Version

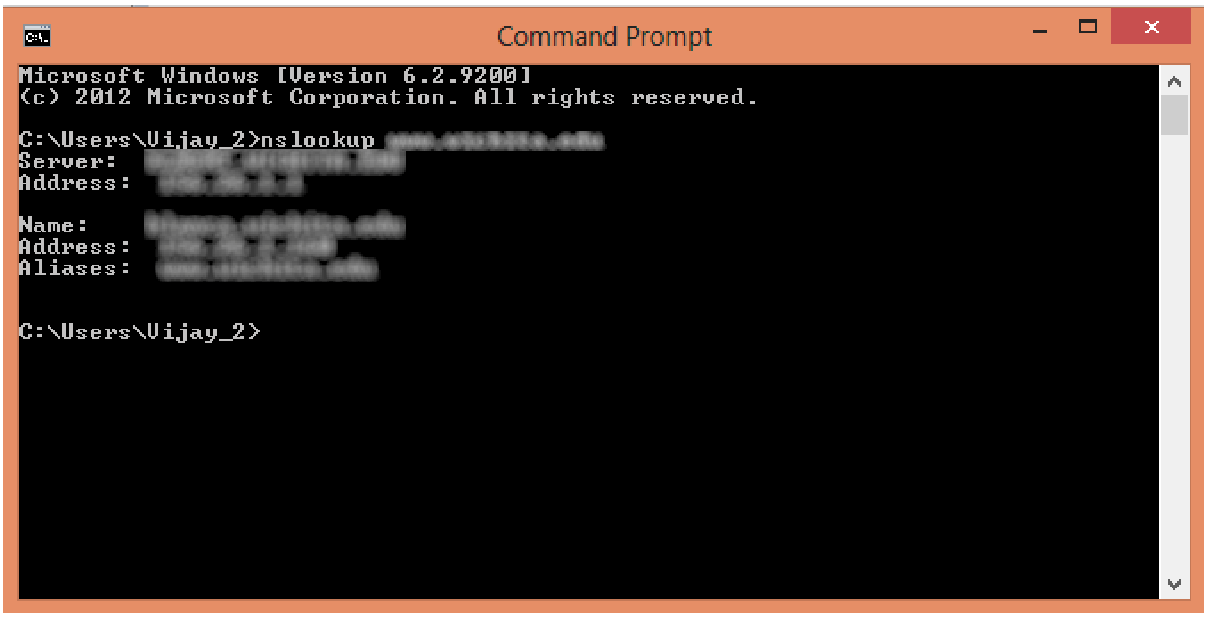
- 4.2.2.08

Block HTTPS Access

You need to find the IP address of the particular website that you wish to block. To do that, please follow the below Steps 1 and 2.

Step 1. On your PC, open the command prompt by **Start > Run**. Then, type **cmd** in the Open field. (In Windows 8, just type **cmd** in the **Start screen**.)

Step 2. In the Command Prompt window, enter **nslookup** <space> URL. The URL is the website you want to block. For instance, if you wanted to block the website "www.example.com" you would enter:
nslookup www.example.com.



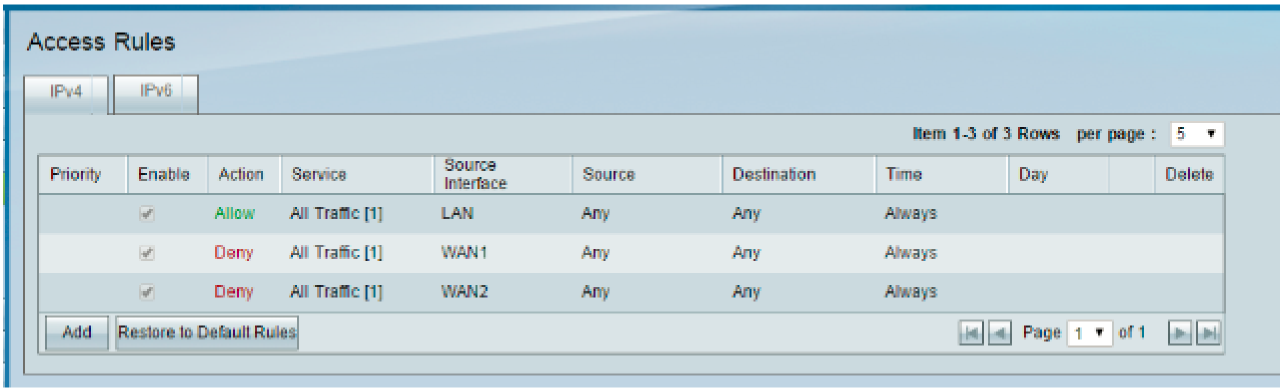
```
Microsoft Windows [Version 6.2.9200]
(c) 2012 Microsoft Corporation. All rights reserved.

C:\Users\Vijay_2>nslookup [redacted]
Server:   [redacted]
Address:  [redacted]

Name:     [redacted]
Address:  [redacted]
Aliases:  [redacted]


C:\Users\Vijay_2>
```

The following fields will be displayed:

- Server — Displays the name of the DNS server which provides information to the router.
- Address — Displays the IP address of the DNS server which provides information to the router.
- Name — Displays the name of the server which hosts the website that you entered in Step 2.
- Address — Displays the IP address of the server which hosts the website that you entered in Step 2.
- Aliases — Displays the Fully Qualified Domain Name (FQDN) of the server which hosts the website that you entered in Step 2.

The server address of the website is what we need.

Step 3. Log into the Router Configuration Utility to choose **Firewall > Access Rules**. The *Access Rule* page opens:

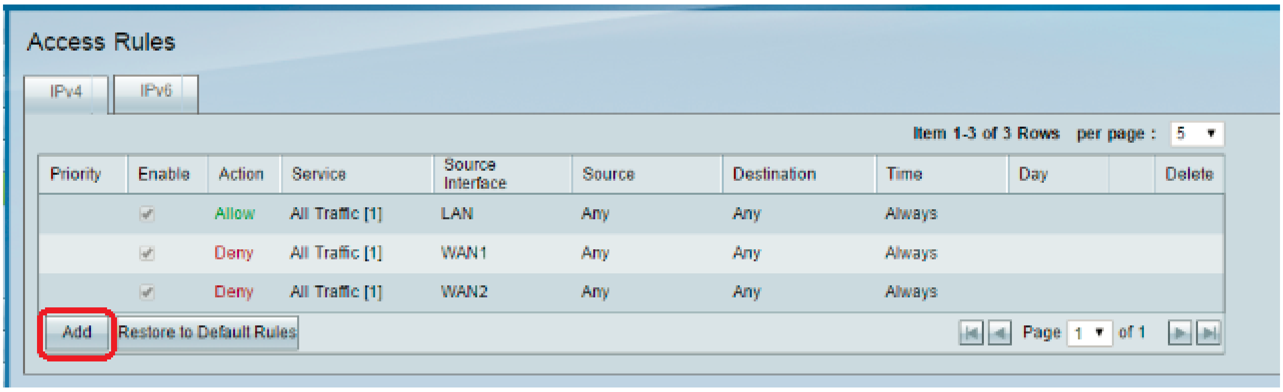


Access Rules

Item 1-3 of 3 Rows per page : 5

Priority	Enable	Action	Service	Source Interface	Source	Destination	Time	Day	Delete
	✓	Allow	All Traffic [1]	LAN	Any	Any	Always		
	✓	Deny	All Traffic [1]	WAN1	Any	Any	Always		
	✓	Deny	All Traffic [1]	WAN2	Any	Any	Always		

Step 4. Click **Add** to add a new rule. The *Access Rules* window appears:



Access Rules

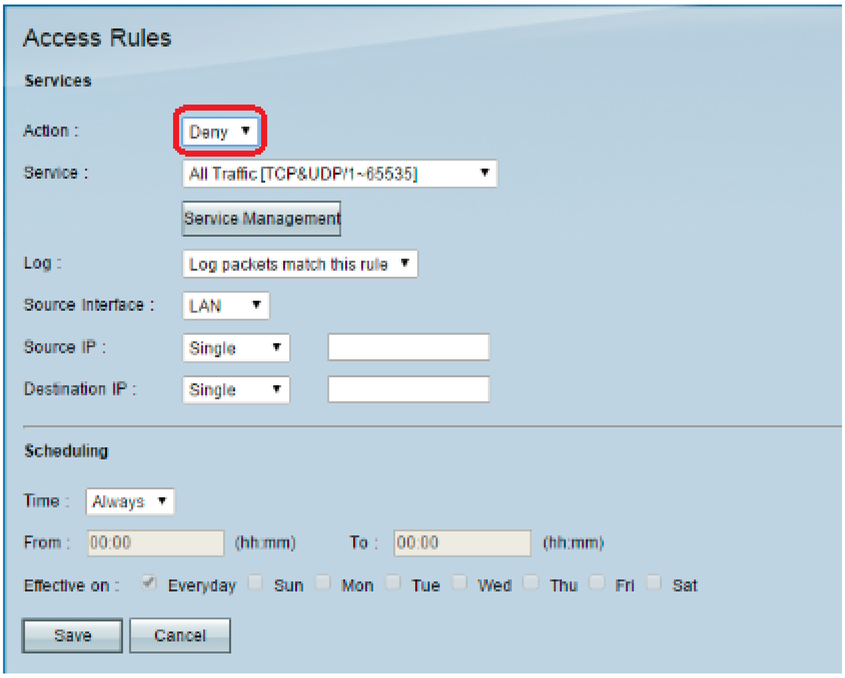
IPv4 | IPv6

Item 1-3 of 3 Rows per page : 5

Priority	Enable	Action	Service	Source Interface	Source	Destination	Time	Day	Delete
	☑	Allow	All Traffic [1]	LAN	Any	Any	Always		
	☑	Deny	All Traffic [1]	WAN1	Any	Any	Always		
	☑	Deny	All Traffic [1]	WAN2	Any	Any	Always		

Add | Restore to Default Rules | Page 1 of 1

Step 5. Choose **Deny** from the Action drop-down list to block the desired website.



Access Rules

Services

Action : Deny

Service : All Traffic [TCP&UDP/1~65535]

Service Management

Log : Log packets match this rule

Source Interface : LAN

Source IP : Single

Destination IP : Single

Scheduling

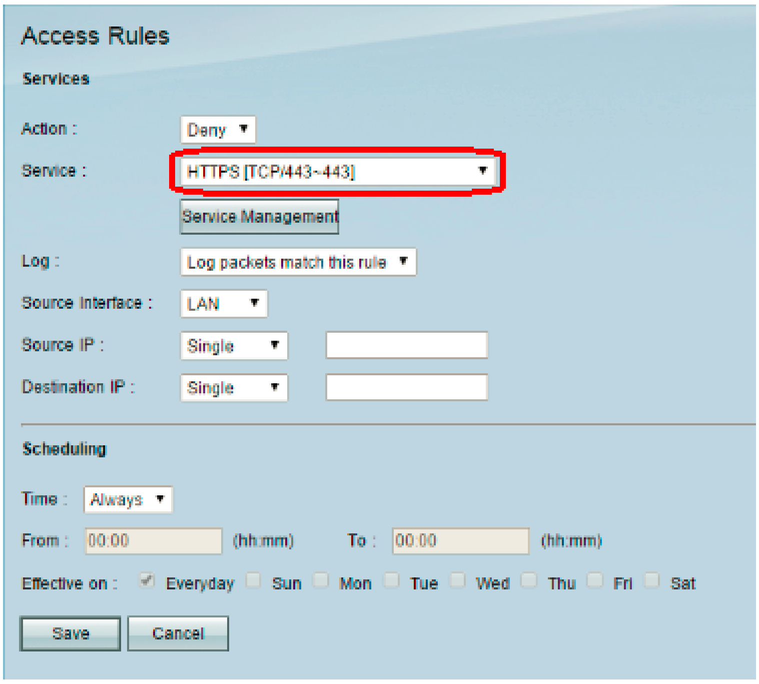
Time : Always

From : 00:00 (hh:mm) To : 00:00 (hh:mm)

Effective on : ☑ Everyday □ Sun □ Mon □ Tue □ Wed □ Thu □ Fri □ Sat

Save | Cancel

Step 6. Choose **HTTPS [TCP/443~443]** from the Service drop-down list as we are blocking an HTTPS URL.



Access Rules

Services

Action : Deny

Service : HTTPS [TCP/443~443]

Service Management

Log : Log packets match this rule

Source Interface : LAN

Source IP : Single

Destination IP : Single

Scheduling

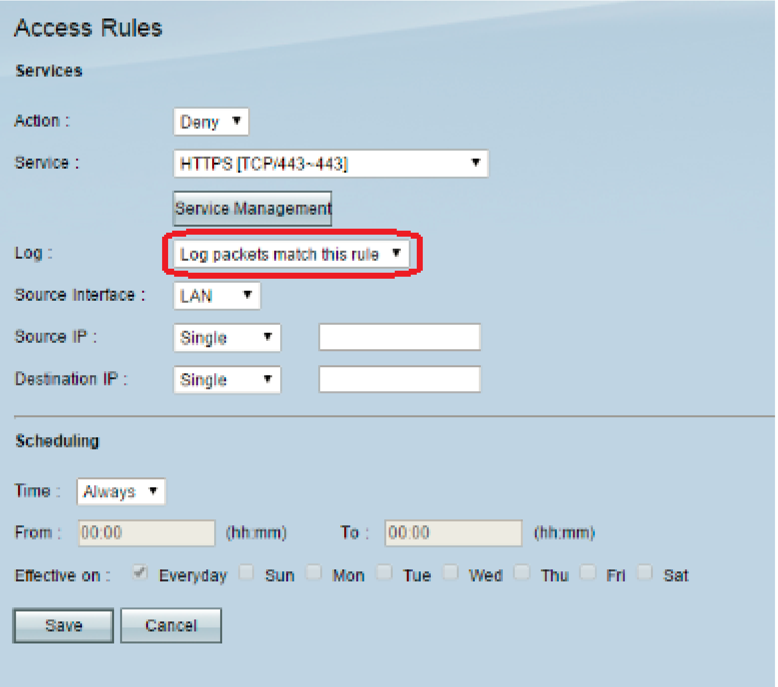
Time : Always

From : 00:00 (hh:mm) To : 00:00 (hh:mm)

Effective on : ☑ Everyday □ Sun □ Mon □ Tue □ Wed □ Thu □ Fri □ Sat

Save | Cancel

Step 7. Choose the desired option for the Log Management from the Log drop-down list.



Access Rules

Services

Action : Deny

Service : HTTPS [TCP/443~443]

Log : Log packets match this rule

Source Interface : LAN

Source IP : Single

Destination IP : Single

Scheduling

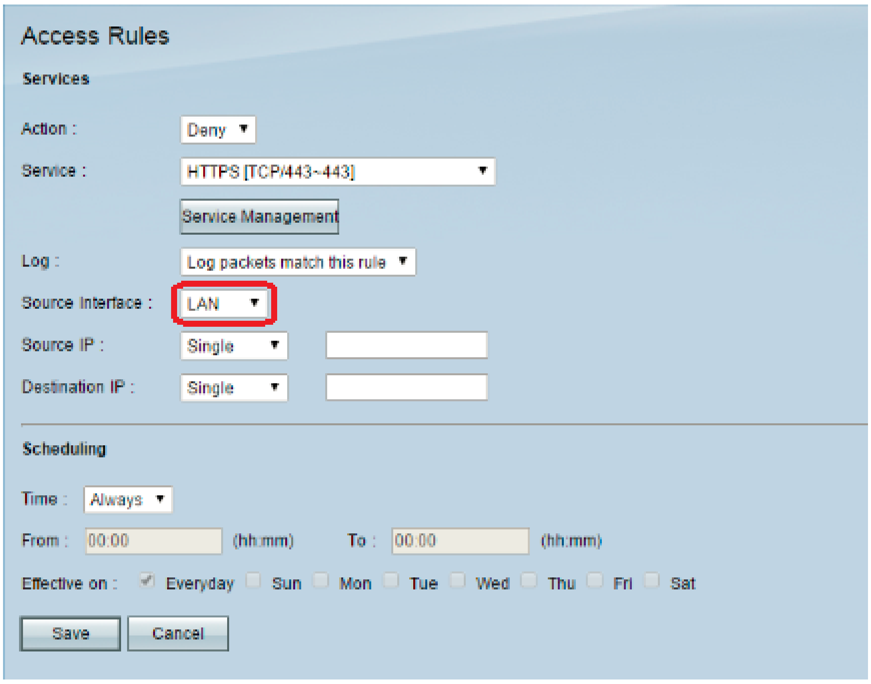
Time : Always

From : 00:00 (hh:mm) To : 00:00 (hh:mm)

Effective on : ☑ Everyday □ Sun □ Mon □ Tue □ Wed □ Thu □ Fri □ Sat

- Log packets match this rule — Will log the packets which are blocked.
- Not log — Will not log any packets.

Step 8. Choose **LAN** from the Source Interface drop-down list as we have to block the URL request which will come from the routers LAN interface.



Access Rules

Services

Action : Deny

Service : HTTPS [TCP/443~443]

Log : Log packets match this rule

Source Interface : LAN

Source IP : Single

Destination IP : Single

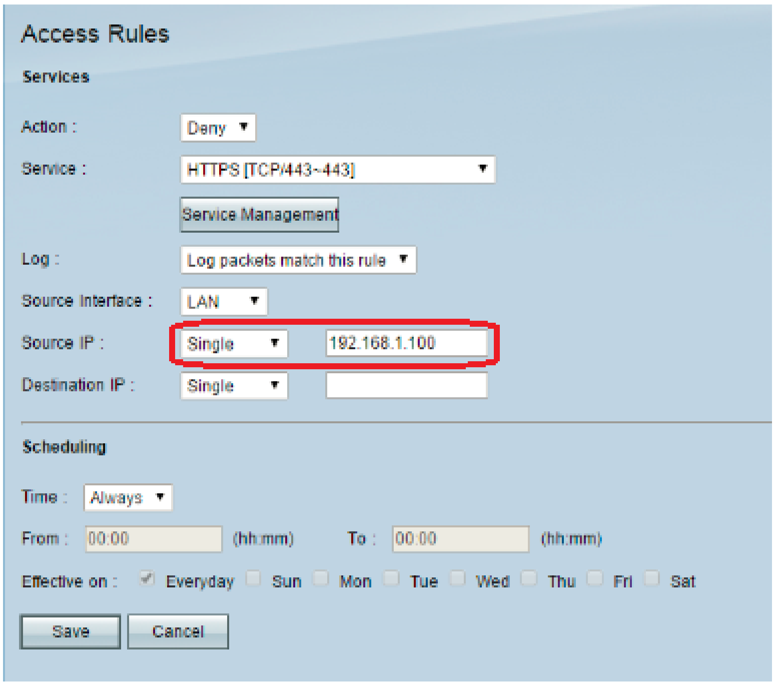
Scheduling

Time : Always

From : 00:00 (hh:mm) To : 00:00 (hh:mm)

Effective on : ☑ Everyday □ Sun □ Mon □ Tue □ Wed □ Thu □ Fri □ Sat

Step 9. Choose the desired option from the Source IP drop-down list. Then enter the IP address(es) of the machine(s) that are not allowed to access the website:



Access Rules

Services

Action : Deny

Service : HTTPS [TCP/443~443]

Log : Log packets match this rule

Source Interface : LAN

Source IP : Single 192.168.1.100

Destination IP : Single

Scheduling

Time : Always

From : 00:00 (hh:mm) To : 00:00 (hh:mm)

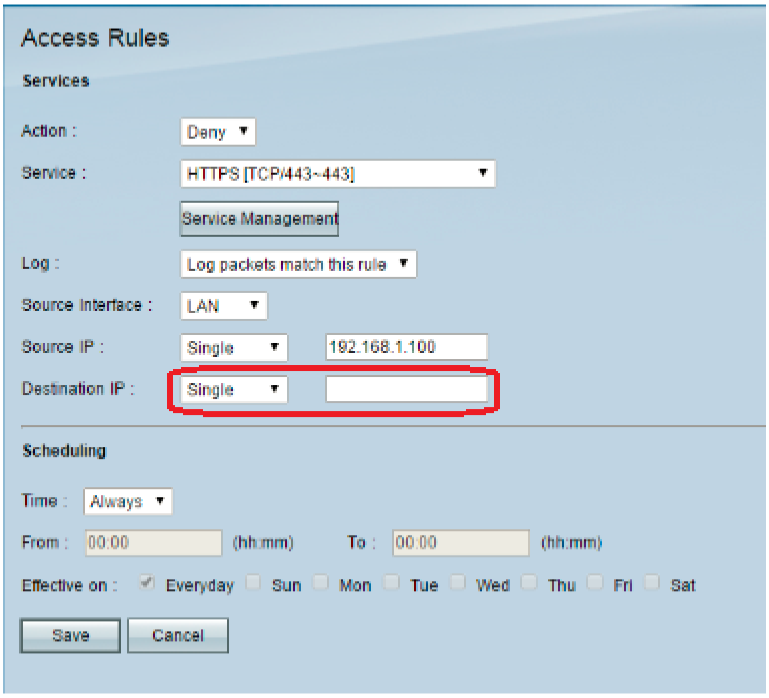
Effective on : ☑ Everyday □ Sun □ Mon □ Tue □ Wed □ Thu □ Fri □ Sat

- Single — The rule blocks packets from a single IP address in the LAN interface.

- Range — The rule blocks packets from a range of IP addresses (IPv4 only) in the LAN interface. Enter the first IP address of the range in the first field and then enter the final IP address in the second field.

- ANY — The rule applies to all IP address in the LAN interface.

Step 10. Choose the desired option from the Destination IP drop-down list. Then enter the IP address of the URL that you wish to block. Refer to Step 1 and Step 2 to help you find this information.



Access Rules

Services

Action : Deny

Service : HTTPS [TCP/443~443]

Log : Log packets match this rule

Source Interface : LAN

Source IP : Single 192.168.1.100

Destination IP : Single

Scheduling

Time : Always

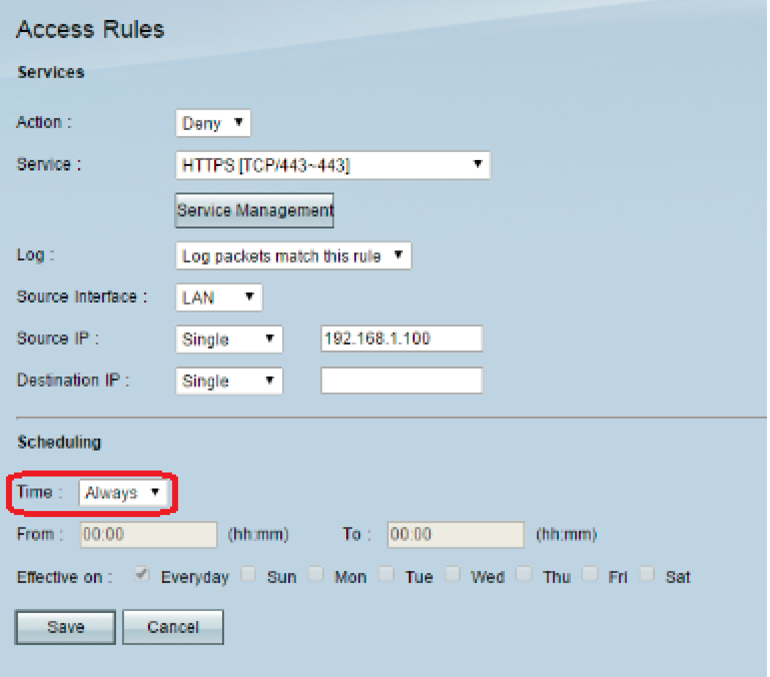
From : 00:00 (hh:mm) To : 00:00 (hh:mm)

Effective on : ☑ Everyday □ Sun □ Mon □ Tue □ Wed □ Thu □ Fri □ Sat

- Single — The rule blocks packets from a single IP address in the LAN interface.

- Range — The rule blocks packets from a range of IP addresses (IPv4 only) in the LAN interface. Enter the first IP address of the range in the first field and then enter the final IP address in the second field. Typically, this option is not used as it will be inaccurate sometimes and will block other websites.

Step 11. Choose the desired scheduling option in the Scheduling section.



Access Rules

Services

Action : Deny

Service : HTTPS [TCP/443~443]

Log : Log packets match this rule

Source Interface : LAN

Source IP : Single 192.168.1.100

Destination IP : Single

Scheduling

Time : Always

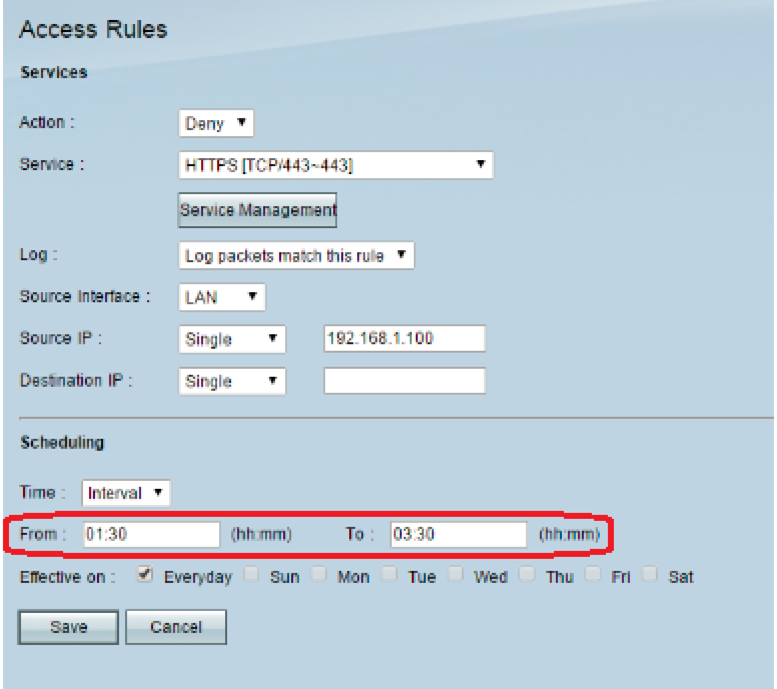
From : 00:00 (hh:mm) To : 00:00 (hh:mm)

Effective on : ☑ Everyday □ Sun □ Mon □ Tue □ Wed □ Thu □ Fri □ Sat

- Always — This rule blocks the website all the time.

- Interval — This rule blocks the website only at a particular time or day of the week.

Step 12. If you select **Interval** at Step 11, enter the desired start and end time in the *From* and *To* fields.



Access Rules

Services

Action : Deny

Service : HTTPS [TCP/443~443]

Log : Log packets match this rule

Source Interface : LAN

Source IP : Single 192.168.1.100

Destination IP : Single

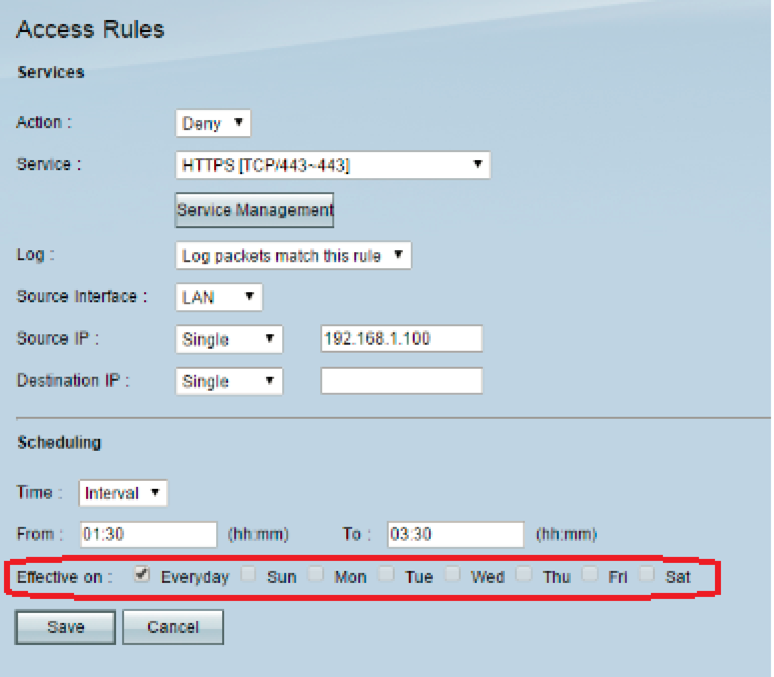
Scheduling

Time : Interval

From : 01:30 (hh:mm) To : 03:30 (hh:mm)

Effective on : ☑ Everyday □ Sun □ Mon □ Tue □ Wed □ Thu □ Fri □ Sat

Step 13. If you select **Interval** at Step 11, check the desired day(s) on which you want to block the website or check the **Everyday** checkbox to block the website on each and every day.



Access Rules

Services

Action : Deny

Service : HTTPS [TCP/443~443]

Log : Log packets match this rule

Source Interface : LAN

Source IP : Single 192.168.1.100

Destination IP : Single

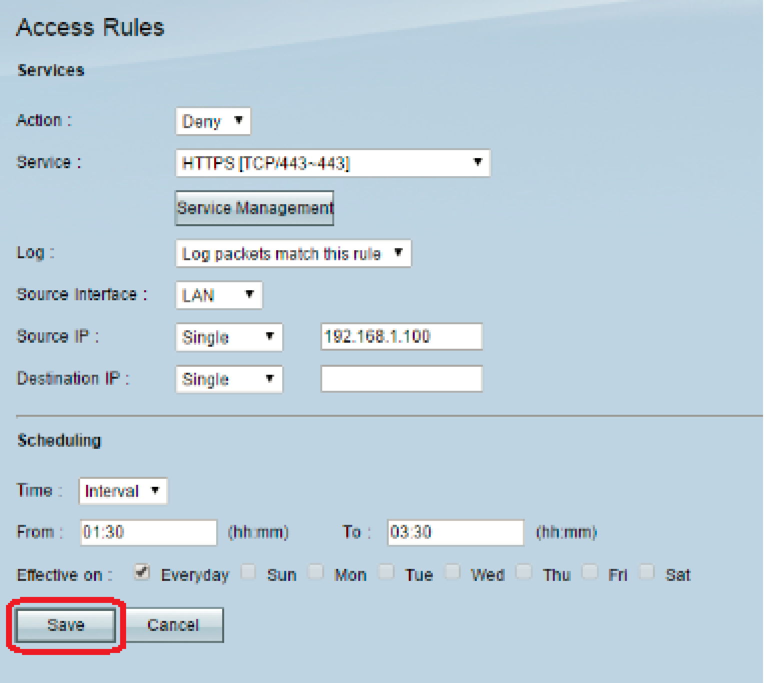
Scheduling

Time : Interval

From : 01:30 (hh:mm) To : 03:30 (hh:mm)

Effective on : ☑ Everyday □ Sun □ Mon □ Tue □ Wed □ Thu □ Fri □ Sat

Step 14. Click **Save** to save the settings. The specified website will be blocked.



Access Rules

Services

Action : Deny

Service : HTTPS [TCP/443~443]

Log : Log packets match this rule

Source Interface : LAN

Source IP : Single 192.168.1.100

Destination IP : Single

Scheduling

Time : Interval

From : 01:30 (hh:mm) To : 03:30 (hh:mm)

Effective on : ☑ Everyday □ Sun □ Mon □ Tue □ Wed □ Thu □ Fri □ Sat

Redo Step 1 to Step 15 to block more URLs.