

Setup Host Mapping on Sx500 Series Stackable Switches

Objective

The Domain Name System (DNS) translates website names to the IP address of the server which hosts the website. Multiple DNS servers can be configured on the switch to resolve IP addresses. The switch saves frequently-queried domain names acquired from the DNS servers in a local DNS cache. It can save up to 64 static addresses, 64 dynamic addresses, and one extra dynamic entry for each IP address configured on the switch by DHCP. The switch tries to match the domain names with static entries first, then dynamic ones if unsuccessful, and then request the configured DNS servers if it could not find it in the mapped addresses.

This article explains how to setup host mapping on Sx500 Series Stackable Switches so that known domain names can be mapped to their respective servers.

Applicable Devices

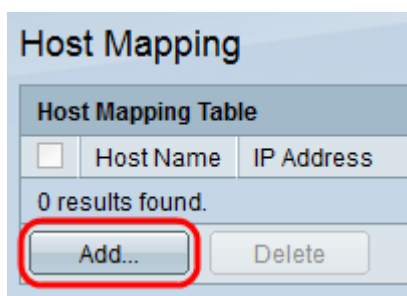
- Sx500 Series Stackable Switches

Software Version

- v1.2.7.76

Setup Host Mapping

Step 1. Log in to the web configuration utility and choose **IP Configuration > Domain Name System > Host Mapping**. The *Host Mapping* page opens.



Step 2. To add a host mapping, click **Add**. The *Add Host Mapping* page opens.

IP Version: Version 6 Version 4

IPv6 Address Type: Link Local Global

Link Local Interface: FE1/2/1

Host Name:

IP Address:

IP Address 2:

IP Address 3:

IP Address 4:

Apply Close

Step 3. In the IP Version field, click either the **Version 4** radio button or **Version 6** radio button based upon the type of host IP address (IPv4 or IPv6).

Note: You may not have the option for Version 6 if you do not have the IPv6 interface enabled. Refer article entitled *IPv6 Interface Configuration on Sx500 Series Stackable Switches* for further details.

IP Version: Version 6 Version 4

IPv6 Address Type: Link Local Global

Link Local Interface: FE1/2/1

Host Name: www.example.com

IP Address: 2001:DB8:0:ABCD::1

IP Address 2: 2001:DB8:0:BCDE::1

IP Address 3: 2001:DB8:0:CDEF::1

IP Address 4: 2001:DB8:0:FABC::1

Apply Close

Step 4. If IPv6 is chosen in Step 3, click one of the IPv6 Address Type radio buttons.

- Link Local — The IPv6 address identifies hosts on a single network link. A link local address is not routable and can be used for communication only in the local network.
- Global — The IPv6 address is a global Unicast IPv6 type that is visible and reachable from other networks.

Step 5. If Link Local is chosen for the IPv6 address type, choose the interface where it is received from the Link Local Interface drop-down list. You may see prefixes of all the available interfaces in the list. The default prefix is FE80 which is a non-routable local interface.

Step 6. In the Host name field, enter a valid domain name of up to 158 characters.

Step 7. In the IP address field, enter the IP address of the host. This IP address entry

depends on what IP version was clicked in the IP Version field.

Note: If you clicked Version 6 in Step 3, you can input up to four IP addresses (1 active and 3 backup addresses). You do not have this option in IPv4.

IP Version: Version 6 Version 4
IPv6 Address Type: Link Local Global
Link Local Interface: FE1/2/1
Host Name: www.example.com
IP Address: 2001:DB80:0:ABCD::1
IP Address 2: 2001:DB80:0:BCDE::1
IP Address 3: 2001:DB80:0:CDEF::1
IP Address 4: 2001:DB80:0:FABC::1
Apply Close

Host Mapping

Host Mapping Table		
<input type="checkbox"/>	Host Name	IP Address
<input type="checkbox"/>	www.example.com	2001:db80:0:abcd:1
<input type="checkbox"/>	www.example.com	2001:db80:0:bcde:1
<input type="checkbox"/>	www.example.com	2001:db80:0:cdef:1
<input type="checkbox"/>	www.example.com	2001:db80:0:fabcd:1

Add... Delete

Step 8. Click **Apply** at the bottom of the window to save the settings. The settings are applied.

Host Mapping

Host Mapping Table		
<input checked="" type="checkbox"/>	Host Name	IP Address
<input checked="" type="checkbox"/>	www.example.com	2001:db80:0:abcd:1
<input checked="" type="checkbox"/>	www.example.com	2001:db80:0:bcde:1
<input checked="" type="checkbox"/>	www.example.com	2001:db80:0:cdef:1
<input checked="" type="checkbox"/>	www.example.com	2001:db80:0:fabcd:1

Add... Delete

Step 9. (Optional) To delete a hostname check a hostname and click **Delete**. This action deletes the entire created table along with the backup IP addresses.