



## Configuring HSRP

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### About HSRP

Hot Standby Router Protocol (HSRP) provides high network availability by providing redundancy for IP traffic from hosts on networks. HSRP routes IP traffic without relying on the availability of any single router. It enables a set of router interfaces to work together to present the appearance of a single virtual router or default gateway to the hosts on a LAN.

When HSRP is configured on a network or segment, it provides a virtual Media Access Control (MAC) address and an IP address that is shared among a group of configured routers. HSRP allows two or more HSRP-configured routers to use the MAC address and IP network address of a virtual router. The virtual router does not exist; it represents the common target for routers that are configured to provide backup to each other. One of the routers is selected to be the active router and another to be the standby router. The standby router assumes control of the group MAC address and IP address when the designated active router fail.

In Cisco UCS Director, HSRP configuration is supported on the following Cisco network devices:

- Cisco Nexus 5000, 5500, and 5672 Series switches
- Cisco Nexus 7000 Series switches

### Configuring HSRP

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- Step 1** Choose **Physical > Network**.
- Step 2** On the **Network** page, choose the pod.
- Step 3** Select the network device to be configured.
- Step 4** Click **View Details**.

**Note** For configuring HSRP on Cisco Nexus 7000 Series switches, expand the pod and choose the network device. Click the **VDC** tab, choose the Ethernet type VDC, and click **View Details**.

- Step 5** Click the **HSRP** tab.

**Step 6** Click **Add**.

**Step 7** In the **Configure HSRP** screen, complete the following fields:

| Name   | Description   |
|--|---|
| <b>Interface Name</b> field  | Click <b>Select</b> and choose an interface on which you want to enable HSRP.   |
| <b>Enable HSRPV2</b> check box                                       | Check the check box to enable the latest version (version 2) of HSRP in the interface; the default is version 1 of HSRP.  |
| <b>Description</b> field   | Description for the selected interface.   |
| <b>Enable Interface</b> check box                                    | Check the check box to enable the interface.  |
| <b>Interface IP Address</b> field                                    | The IP address of the interface.  |
| <b>IP Network Mask</b> field   | The network mask address of the interface.  |
| <b>HSRP Group Number</b> field                                       | The group number to which the command applies. The valid range is from 0 to 4095.   |
| <b>Authentication Text</b> field                                     | Enter a string to be carried in all HSRP messages.  |
| <b>Preempt</b> check box   | Check the check box to enable preempt.  |
| <b>Min Preempt Delay Time</b> field                                  | The time that is set to cause the local router to postpone taking over the active role for the number of seconds shown. The range is 0 to 3600 (1 hour); the default is 0 (no delay before taking over).<br><br>This field is displayed when the <b>Preempt</b> check box is enabled. |
| <b>Priority</b> field  | Sets the group priority. The valid range is from 1 to 255; the default is 100.  |
| <b>Set Threshold</b> check box                                       | Check the check box to set the lower and upper threshold time. Uncheck the box to set the default threshold values: Lower -1; Upper - priority.   |
| <b>Lower Threshold Time</b> field                                    | This field appears only when the <b>Set Threshold</b> check box is checked. Sets the lower threshold time. The valid range is from 0 to 255 and must be lesser than priority.   |
| <b>Upper Threshold Time</b> field                                    | This field appears only when the <b>Set Threshold</b> check box is checked. Sets the upper threshold time. The valid range is from 0 to 255 and must be greater than lower threshold time and priority.   |
| <b>Hello Interval</b> field  | The hello interval in seconds. The range is from 1 to 254; the default is 3 seconds.  |
| <b>Hold Time Interval</b> field                                      | The time in seconds before the active or standby router is declared to be down. The range is from 1 to 255; the default is 10 seconds.  |
| <b>Virtual IP Address</b> field                                      | The virtual IP address of the hot standby router interface. You must enter the virtual IP address for at least one of the interfaces; it can be learned on the other interfaces.  |
| <b>Copy Running configuration to Startup configuration</b> check box | Check the check box to copy the running configuration to the startup configuration.   |

**Step 8** Click **Submit**.

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