H Commands

This chapter describes the Cisco NX-OS Hot Standby Router Protocol (HSRP) commands that begin with H.

hsrp

To enter Hot Standby Router Protocol (HSRP) configuration mode and create an HSRP group, use the **hsrp** command. To disable HSRP, use the **no** form of this command.

hsrp *group-number* **ipv4**

no hsrp *group-number* **ipv4**

Syntax Description

group-number	Number of HSRP groups that can be configured on a Gigabit Ethernet port, including the main interfaces and subinterfaces. The range is from 1 to 255. The default value is 0.
ipv4	(Optional) Sets the HSRP group for IPv4.

Command Default   Disabled

Command Modes   Interface configuration mode

Command History

Release	Modification
6.0(2)N1(1)	This command was introduced.

Usage Guidelines   You must globally enable HSRP before you can configure any HSRP options or create an HSRP group.

Examples   This example shows how to create and activate an HSRP group:

```
switch# configure terminal
switch(config)# interface ethernet 0
switch(config-if)# no switchport
switch(config-if)# ip address 172.16.6.5 255.255.255.0
switch(config-if)# hsrp 1
switch(config-if-hsrp)#
```

This example shows how to create and activate an HSRP group for IPv6:

```
switch# configure terminal
switch(config)# interface ethernet 1
switch(config-if)# no switchport
switch(config-if)# ipv6 address 172.16.6.5 255.255.255.0
switch(config-if)# hsrp 1
switch(config-if-hsrp)#
```

Related Commands

Command	Description
feature hsrp	Enables HSRP configuration.
ip address	Creates a virtual IP address for the HSRP group. The IP address must be in the same subnet as the interface IP address.
show hsrp	Displays HSRP information.

hsrp delay

To delay Hot Standbu Router Protocol (HSRP) initialization after a reload or after an interface comes up, use the **hsrp delay** command. To disable this function, use the **no** form of this command.

> **hsrp delay** {**minimum** *min-delay* | **reload** *reload-delay*}

> **no delay** {**minimum** *min-delay* | **reload** *reload-delay}*

Syntax Description

minimum *min-delay*	Specifies the minimum time (in seconds) to delay HSRP group initialization after an interface comes up. This period applies to all subsequent interface events. The range is from 1 to 10,000. The default is 0 seconds.
reload *reload-delay*	Specifies the time period to delay HSRP group initialization after the router has reloaded. This period applies only to the first interface-up event after the router has reloaded. The range is from 1 to 10,000. The default is 0 seconds.

Command Default   The HSRP delay default is 0 seconds.

Command Modes   Interface configuration mode

Command History

Release	Modification
6.0(2)N1(1)	This command was introduced.

Usage Guidelines   Use the **hsrp delay** command to delay HSRP initialization either after a reload or after an interface comes up. This configuration allows the interface and router to stabilize after the interface comes up and helps prevent HSRP state flapping.

Examples   This example shows how to configure a minimum delay of 3 seconds and a group initialization delay of 10 seconds:

```
switch# configure terminal
switch(config)# interface ethernet 1/5
switch(config-if)# no switchport
switch(config-if)# ip address 172.16.6.5 255.255.255.0
switch(config-if)# hsrp 1
switch(config-if-hsrp)# hsrp delay minimum 3 reload 10
switch(config-if-hsrp)#
```

Related Commands

Command	Description
feature hsrp	Enables the HSRP configuration.

Command	Description
hsrp	Creates HSRP groups.
show hsrp delay	Displays the HSRP delay information.

■ **hsrp delay**