



# H Commands

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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	<i>group-number</i>	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.
	<b>ipv4</b>	(Optional) Sets the HSRP group for IPv4.

Command Default	Disabled
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Command Modes	Interface configuration mode
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Command History	Release	Modification
	5.2(1)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.
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Examples	This example shows how to create and activate an HSRP group:
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```
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
<b>feature hsrp</b>	Enables HSRP configuration.
<b>ip address</b>	Creates a virtual IP address for the HSRP group. The IP address must be in the same subnet as the interface IP address.
<b>show hsrp</b>	Displays HSRP information.

# hsrp delay

To delay Hot Standby 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

<b>minimum</b> <i>min-delay</i>	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.
<b>reload</b> <i>reload-delay</i>	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

Release	Modification
5.2(1)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
<b>feature hsrp</b>	Enables the HSRP configuration.
<b>hsrp</b>	Creates HSRP groups.
<b>show hsrp delay</b>	Displays the HSRP delay information.