



## A Commands

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

## authentication (HSRP)

To configure authentication for the Hot Standby Router Protocol (HSRP), use the **authentication** command. To disable authentication, use the **no** form of this command.

```
authentication {string | md5 {key-chain key-chain | key-string {0 | 7} text [timeout seconds]} |
  text string}
```

```
no authentication {string | md5 {key-chain key-chain | key-string {0 | 7} text [timeout seconds]} |
  text string}
```

Syntax Description		
<b>md5</b>		Specifies the Message Digest 5 (MD5) authentication.
<b>key-chain</b> <i>key-chain</i>		Identifies a group of authentication keys.
<b>key-string</b>		Specifies the secret key for MD5 authentication.
<b>0</b>		Specifies a clear text string.
<b>7</b>		Specifies an encrypted string.
<i>text</i>		Secret key for MD5 authentication. The range is from 1 to 255 characters. We recommend that you use at least 16 characters.
<b>timeout</b> <i>seconds</i>		(Optional) Specifies the authentication timeout value. The range is from 0 to 32767.
<b>text</b> <i>string</i>		Specifies an authentication string. The range is from 1 to 255 characters. The default string is “cisco”.

**Command Default** Disabled

**Command Modes** HSRP configuration or HSRP template mode

Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.

**Usage Guidelines** Use the **authentication text** command to prevent misconfigured routers from participating in HSRP groups that they are not intended to participate in. The authentication string is sent unencrypted in all HSRP messages. The same authentication string must be configured on all routers in the same group to ensure interoperability. HSRP protocol packets that do not authenticate are ignored.



**Caution**

If you configure two routers with identical HSRP IP addresses but with different authentication strings, then neither router is aware of the duplication.

**Examples** This example shows how to configure an authentication string for HSRP group 2:

```
switch# configure terminal
```

```
switch(config)# interface ethernet 0/1
switch(config-if)# no switchport
switch(config-if)# ip address 10.0.0.1 255.255.255.0
switch(config-if)# hsrp 2
switch(config-if-hsrp)# priority 110
switch(config-if-hsrp)# preempt
switch(config-if-hsrp)# authentication text sanjose
switch(config-if-hsrp)# ip 10.0.0.3
switch(config-if-hsrp)# end
switch(config-if-hsrp)#
```

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**Related Commands**

Command	Description
<b>feature hsrp</b>	Enables HSRP and enters HSRP configuration mode.
<b>hsrp group</b>	Creates an HSRP group.

