CHAPTER 3

Setting Up Remote Management

This chapter describes how to set up remote management in your startup configuration for use in recovering an unreachable Cisco Nexus 1010, and includes the following sections:

- Information About Remote Management, page 3-1
- Configuring Remote Management, page 3-2
- Additional References, page 3-3
- Feature History for Remote Management, page 3-4

Information About Remote Management

You can add remote management to your redundant Cisco Nexus 1010 startup configuration so that in the event one of the pair becomes unreachable, the other can automatically attempt to recover it.

If redundant Cisco Nexus 1010s cannot communicate with each other over the management and control interfaces, they can both become active simultaneously. This is known as a split-brain conflict. A Cisco Nexus 1010 cannot be rebooted from its peer switch using high availability.

If one of the Cisco Nexus 1010s becomes unreachable, its peer becomes active if it was standby. If you have configured remote management, the newly-active Cisco Nexus 1010 can attempt to power cycle its unreachable peer switch through the mgmt0 port of its CIMC interface if CIMC is reachable on the peer. The active Cisco Nexus 1010 starts the reboot code immediately when the standby is lost. The standby Cisco Nexus 1010 waits 60 seconds before starting the reboot code.

For more information about loss of communication between redundant Cisco Nexus 1010s, see the *Cisco Nexus 1000V High Availability and Redundancy Configuration Guide, Release 4.0(4)SV1(3)*.

For more information about CIMC, see the "Cisco Integrated Management Controller" section on page 1-3.

Send document comments to nexus1k-docfeedback@cisco.com.

Configuring Remote Management

You can use this procedure to set up remote management in the startup configuration to be used in recovering an unreachable Cisco Nexus 1010 peer switch through the mgmt0 port of its CIMC software.

BEFORE YOU BEGIN

Before beginning this procedure, you must know or do the following:

- You previously configured the Cisco Integrated Management Controller (CIMC) when installing the Cisco Nexus 1010. For more information, see the *Cisco Nexus 1010 Virtual Services Appliance Hardware Installation Guide*.
- You have the following information for the Cisco Nexus 1010:
  - CIMC management port IP address
  - CIMC administrator login and password
- This procedure has steps for setting up remote management for both the primary and secondary Cisco Nexus 1010.
- You are logged in to the active Cisco Nexus 1010 in EXEC mode.

SUMMARY STEPS

1. **config t**
2. **nexus1010-system remote-mgmt primary ip** *ipaddr* **username** *username* **password** *password*
3. **nexus1010-system remote-mgmt secondary ip** *ipaddr* **username** *username* **password** *password*
4. **show running-config**
5. **copy running-config startup-config**

DETAILED STEPS

	Command	Purpose
Step 1	**config t** **Example:** switch# config t switch(config)#	Enters CLI global configuration mode.
Step 2	**nexus1010-system remote-mgmt primary ip** *ipaddr* **username** *username* **password** *password* **Example:** switch(config)# nexus1010-system remote-mgmt primary ip 172.23.231.51 username admin password ************ switch(config)#	Sets up remote management in the running configuration of the primary Cisco Nexus 1010. *ipaddress*: the IP address of the CIMC management port *username:* the admin username for the CIMC management software *password:* the admin password for the CIMC management software

Send document comments to nexus1k-docfeedback@cisco.com.

	Command	Purpose
Step 3	**nexus1010-system remote-mgmt secondary ip** *ipaddr* **username** *username* **password** *password* **Example:** `switch(config)# nexus1010-system remote-mgmt secondary ip 172.23.231.52 username admin password ********** switch(config)#`	Sets up remote management in the running configuration of the secondary Cisco Nexus 1010. *ipaddress*: the IP address of the CIMC management port *username:* the admin username for the CIMC management software *password:* the admin password for the CIMC management software

Step 4	**show running-config**
	
	Example:
	`switch(config)# show running-config`
	
	`!Command: show running-config`
	`!Time: Sat Jun 25 03:01:55 2011`
	
	`version 4.2(1)SP1(2)`
	`no feature telnet`
	
	`username adminbackup password 5 $1$Oip/C5Ci$oOdx7oJSlBCFpNRmQK4na. role network -operator`
	`network-uplink type 1`
	`nexus1010-system remote-mgmt primary ip 172.23.231.51 username admin password ********** nexus1010-system remote-mgmt secondary ip 172.23.231.52 username admin password ********** interface mgmt0`
	`...`
	
	`switch(config)#`
		Displays the running configuration including the remote management configuration for verification.

Step 5	**copy running-config startup-config** **Example:** `switch(config)# copy running-config startup-config`	Saves the running configuration persistently through reboots and restarts by copying it to the startup configuration.

Additional References

For additional information related to implementing system-level HA features, see the following sections:

- Related Documents, page 3-4
- Standards, page 3-4
- RFCs, page 3-4

Send document comments to nexus1k-docfeedback@cisco.com.

Related Documents

Related Topic	Document Title
CIMC	Cisco Integrated Management Controller, page 1-3
CIMC configuration	*Cisco Nexus 1010 Virtual Services Appliance Hardware Installation Guide*
virtual service blade configuration	Configuring Virtual Service Blades, page 5-1
Uplink configuration	Configuring the Uplinks, page 4-1
Hardware installation and uplink connection	*Cisco Nexus 1010 Virtual Services Appliance Hardware Installation Guide*
Software installation and upgrade	*Cisco Nexus 1010 Software Installation and Upgrade Guide, Release 4.2(1)SP1(2)*
Split-brain and loss of communication	*Cisco Nexus 1000V High Availability and Redundancy Configuration Guide, Release 4.0(4)SV1(3)*
Complete command syntax, command modes, command history, defaults, usage guidelines, and examples for all Cisco Nexus 1010 commands.	*Cisco Nexus 1010 Command Reference, Release 4.0(4)SP1(1)*

Standards

Standards	Title
No new or modified standards are supported by this feature, and support for existing standards has not been modified by this feature.	—

RFCs

RFCs	Title
No RFCs are supported by this feature	—

Feature History for Remote Management

This section provides the remote management release history.

Feature Name	Releases	Feature Information
remote management	4.0(4)SP1(1)	This feature was introduced.