

## **Basic Device Management**

This chapter describes how to configure, manage, and verify the basic setting on your Cisco NX-OS device.

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# **Information About Basic Device Management**

This section provides information about basic device management.

### **Device Hostname**

You can change the device hostname displayed in the command prompt from the default (switch) to another character string. When you give the device a unique hostname, you can easily identify the device from the command-line interface (CLI) prompt.

### **Message-of-the-Day Banner**

The message-of-the-day (MOTD) banner displays before the user login prompt on the device. This message can contain any information that you want to display for users of the device.

### **Device Clock**

If you do not synchronize your device with a valid outside timing mechanism, such as an NTP clock source, you can manually set the clock time when your device boots.

## **Clock Manager**

The Cisco Nexus chassis may contain clocks of different types that may need to be synchronized. These clocks are a part of various components (such as the supervisor, LC processors, or line cards) and each may be using a different protocol.

The clock manager provides a way to synchronize these different clocks.

## **Time Zone and Summer Time (Daylight Saving Time)**

You can configure the time zone and summer time (daylight saving time) setting for your device. These values offset the clock time from Coordinated Universal Time (UTC). UTC is International Atomic Time (TAI) with leap seconds added periodically to compensate for the Earth's slowing rotation. UTC was formerly called Greenwich Mean Time (GMT).

### **User Sessions**

You can display the active user session on your device. You can also send messages to the user sessions. For more information about managing user sessions and accounts, see the Cisco Nexus security configuration guide for your device.

## **Licensing Requirements for Basic Device Management**

The following table shows the licensing requirements for this feature:

Product	License Requirement	
Cisco NX-OS	Basic device management requires no license. Any feature not included in a license package is bundled with the Cisco NX-OS system images and is provided at no extra charge to you. For a complete explanation of the Cisco NX-OS licensing scheme, see the .	

## **Changing the Device Hostname**

You can change the device hostname displayed in the command prompt from the default (switch) to another character string.

	Command or Action	Purpose
Step 1	configure terminal	Enters global configuration mode.
	Example:	
	<pre>switch# configure terminal switch(config)#</pre>	

	Command or Action	Purpose		
Step 2	{hostname   switchname} name	Note The switchname command perfor	The <b>switchname</b> command performs	
	Example:	the same function as the <b>hostnar</b> command.	me	
	Using the <b>hostname</b> command:	Command.	Command.	
	<pre>switch(config)# hostname Engineering1 Engineering1(config)#</pre>			
	Using the <b>switchname</b> command:			
	<pre>Engineering1(config) # switchname Engineering2 Engineering2(config) #</pre>			
Step 3	exit	Exits global configuration mode.		
	Example:			
	<pre>Engineering2(config)# exit Engineering2#</pre>			
Step 4	(Optional) copy running-config startup-config	ig Copies the running configuration to the sta	.rtup	
	Example:	configuration.	on.	
	Engineering2# copy running-config startup-config			

# **Configuring the MOTD Banner**

You can configure the MOTD to display before the login prompt on the terminal when a user logs in. The MOTD banner has the following characteristics:

- Maximum of 80 characters per line
- Maximum of 40 lines

	Command or Action	Purpose	
Step 1	configure terminal	Enters global configuration mode.	
	Example:		
	<pre>switch# configure terminal switch(config)#</pre>		
Step 2	<b>banner motd</b> delimiting-character message delimiting-character	Configures the MOTD banner. Do not use the delimiting-character in the message text.	
	Example:	<b>Note</b> Do not use " or % as a delimiting	
	<pre>switch(config)# banner motd #Welcome to the Switch# switch(config)#</pre>	character.	

	Command or Action	Purpose
Step 3	exit	Exits global configuration mode.
	Example:	
	<pre>switch(config)# exit switch#</pre>	
Step 4	(Optional) show banner motd	Displays the configured MOTD banner.
	Example: switch# show banner motd	
Step 5	(Optional) copy running-config startup-config	
	Example:	configuration.
	<pre>switch# copy running-config startup-config</pre>	

# **Configuring the Time Zone**

You can configure the time zone to offset the device clock time from UTC.

	Command or Action	Purpose
Step 1	configure terminal	Enters global configuration mode.
	Example:	
	<pre>switch# configure terminal switch(config)#</pre>	
Step 2	clock timezone zone-name offset-hours offset-minutes	Configures the time zone. The <i>zone-name</i> argument is a 3-character string for the time
		zone acronym (for example, PST or EST). The
	Example:	offset-hours argument is the offset from the
	switch(config)# clock timezone EST -5 0	o i c and the range is from -23 to 23 hours. The
		range for the <i>offset-minutes</i> argument is from 0 to 59 minutes.
Step 3	exit	Exits global configuration mode.
	Example:	
	<pre>switch(config)# exit switch#</pre>	
Step 4	(Optional) show clock	Displays the time and time zone.
	Example:	
	switch# show clock	
Step 5	(Optional) copy running-config startup-config	Copies the running configuration to the startup
	Example:	configuration.

Con	mmand or Action	Purpose
	tch# copy running-config artup-config	

# **Configuring Summer Time (Daylight Saving Time)**

You can configure when summer time, or daylight saving time, is in effect for the device and the offset in minutes.

	Command or Action	Purpose	
Step 1	configure terminal	Enters global configuration mode.	
	Example:		
	<pre>switch# configure terminal switch(config)#</pre>		
Step 2	clock summer-time zone-name start-week start-day start-month start-time end-week	Configures summer time or daylight saving time.	
	Example: switch(config) # clock summer-time PDT 1 Sunday March 02:00 1 Sunday November 02:00 60	The zone-name argument is a three character	
		string for the time zone acronym (for example PST and EST).	
		The values for the <i>start-day</i> and <i>end-day</i> arguments are <b>Monday</b> , <b>Tuesday</b> , <b>Wednesday Thursday</b> , <b>Friday</b> , <b>Saturday</b> , and <b>Sunday</b> .	
		The values for the <i>start-month</i> and <i>end-month</i> arguments are <b>January</b> , <b>February</b> , <b>March</b> , <b>April</b> , <b>May</b> , <b>June</b> , <b>July</b> , <b>August</b> , <b>September</b> , <b>October</b> , <b>November</b> , and <b>December</b> .	
		The value for the <i>start-time</i> and <i>end-time</i> arguments are in the format <i>hh:mm</i> .	
		The range for the <i>offset-minutes</i> argument is from 0 to 1440 minutes.	
Step 3	exit	Exits global configuration mode.	
	Example:		
	<pre>switch(config)# exit switch#</pre>		
Step 4	(Optional) show clock detail	Displays the configured MOTD banner.	
	Example:		
	switch(config)# show clock detail		
Step 5	(Optional) copy running-config startup-config		
	Example:	configuration.	

Command or Action	Purpose
switch# copy running-config startup-config	

## **Manually Setting the Device Clock**

You can set the clock manually if your device cannot access a remote time source.

### Before you begin

Configure the time zone.

### **Procedure**

	Command or Action	Purpose	
Step 1	clock set time day month year	Configures the device clock.	
	Example:	The format for the <i>time</i> argument is <i>hh:mm:ss</i> .	
	switch# clock set 15:00:00 30 May 2008 Fri May 30 15:14:00 PDT 2008	The range for the <i>day</i> argument is from 1 to 31.	
	222 124, 00 20,21,00 222 2000	The values for the <i>month</i> argument are January, February, March, April, May, June, July, August, September, October, November, and December.	
		The range for the <i>year</i> argument is from 2000 to 2030.	
Step 2	(Optional) show clock	Displays the current clock value.	
	<pre>Example: switch(config)# show clock</pre>		

# **Setting the Clock Manager**

You can configure the clock manager to synchronize all the clocks of the components in the Cisco Nexus chassis.

	Command or Action	Purpose	
Step 1	clock protocol protocol vdc vdc-num	Configures the clock manager.	
	Example:	The values for the <i>protocol</i> argument are <b>ptp</b> ,	
	# clock protocol ptp vdc 2	ntp, and none.	
		The following describes the values:	

·	Command or Action	Purpose		
		Note	When <b>none</b> is used, the clock in the specified VDC must be configured.	
		Note	Once the protocol is configured, the clock in the specified VDC must use that protocol.	
			For example, if the <b>clock protocol ptp vdc 2</b> command is entered, then PTP should be configured in VDC 2.	
		The range f	For the <i>vdc</i> argument is 1 to 8.	
Step 2	(Optional) show run clock_manager Example:	Displays the manager.	Displays the configuration of the clock manager.	
	#show run clock_manager			

# **Managing Users**

You can display information about users logged into the device and send messages to those users.

## **Displaying Information about the User Sessions**

You can display information about the user session on the device.

	Command or Action	Purpose
Step 1	show users	Displays the user sessions.
	Example:	
	switch# show users	

## **Sending a Message to Users**

You can send a message to active users currently using the device CLI.

### **Procedure**

	Command or Action	Purpose
Step 1	(Optional) show users	Displays the active user sessions.
	Example: switch# show users	
Step 2	<pre>send [session line] message-text  Example: switch# send Reloading the device is 10 minutes!</pre>	Sends a message to all active users or to a specific user. The message can be up to 80 alphanumeric characters and is case sensitive.

# **Default Settings for Basic Device Parameters**

This table lists the default settings for basic device parameters.

Table 1: Default Basic Device Parameters

Parameters	Default
MOTD banner text	User Access Verification
Clock time zone	UTC

# **Additional References for Basic Device Management**

Related Topic	Document Title
Cisco NX-OS Licensing	Cisco NX-OS Licensing Guide
Command Reference	Cisco Nexus 3548 Switch NX-OS Fundamentals Command Reference