Set Commands

set account enable

This command enables the OS user account that was disabled because of password inactivity.

set account enable *user-id*

Syntax Description

Parameters	Description
user-id	Specifies the user ID of the account that was disabled.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 4

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, Cisco Unity Connection

set account name

This command sets up a new account on the operating system.

set account name *name*

Syntax Description

Parameters	Description
name	Represents the username for the new account. Enter a name comprised of only alphabets or characters comprised of alphanumeric characters (a-z, A-D, 0-9).

Command Modes

Administrator (admin:)

Usage Guidelines

After you enter the username, the system prompts you to enter the privilege level (0 or 1) and password for the new account. The privilege levels definitions are as follows:

Privilege level 0

Specifies an ordinary privilege level. Users with ordinary privileges can run CLI commands with privilege level 0 only.

Privilege level 1

Specifies an advanced privilege level. Users with advanced privileges can run CLI commands with privilege level 1 and below.

Note The administrator account that the system creates during installation has a privilege level of 4. The administrator can run all commands in the CLI.

- **'Allow this User to login to SAML SSO-enabled system through the Recovery URL ? (Yes / No)'** — Level 4 administrators can enable or disable the access to the recovery URL sign-in option for new platform administrators by typing **'Yes'** or **'No'** on the CLI. The value can be configured to **'Yes'** if a user chooses to sign-in using the Recovery URL.
- **'To authenticate a platform login for SSO, a Unique Identifier (UID) must be provided that identifies this user to LDAP (such as sAMAccountName or UPN). Please enter the appropriate LDAP Unique Identifier (UID) for this user:[UID]'** — Level 4 administrator can type the unique identifier value for each platform administrator for this prompt.

Note

Requirements

Command privilege level: 4

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, Cisco Unity Connection

set accountlocking

This command enables or disables account locking for the current administration accounts.

set accountlocking enable | **disable**

Syntax Description

Parameters	Description
enable	Enable account locking.
disable	Disable account locking.

Command Modes

Administrator (admin:)

Usage Guidelines

Note After you run this command with **enable**, the system automatically enables account lockout notification after the system enables the audit logging function.

When the Administration account locking feature is enabled, and the user enters the wrong password more than the accountlocking count, the account gets locked for a set period. The message that the account is locked is only seen on the VM console and secure logs.

Requirements

Applies to: Unified Communications Manager, IM and Presence Service on Unified Communications Manager, Cisco Unity Connection

set accountlocking count

This command sets the global consecutive failed sign-in attempt count that triggers locking a user account.

set accountlocking count *attempts*

Syntax Description

Parameters	Description
attempts	Represents the number of consecutive sign-in attempts before the system locks the account. Value Range: 2-5 Default value: 3

Command Modes

Administrator (admin:)

Usage Guidelines

To change the global value for consecutive failed sign-in attempts before the system locks a user account, execute this command.

Note This command is only valid when account locking is enabled. If account locking is disabled, the system does not remember the account locking value and uses the default value, 3, after you enable account locking.

Requirements

Command privilege level: 1

Allowed during upgrade: Yes

Applies to: Unified Communications Manager, IM and Presence Service on Unified Communications Manager, Cisco Unity Connection

set accountlocking unlocktime

This command configures the unlock time for the current Unified Communications Manager admin accounts.

set accountlocking unlocktime *seconds*

Syntax Description

Parameters	Description
seconds	Specifies the unlock time in seconds. Value Range: 30-3600 Default value: 300

Note

- The account gets automatically unlocked only after the configured unlock time.
- This command is only valid when account locking is enabled. If account locking is disabled, the system does not remember the account locking unlock time and uses the default value, 300, after you enable account locking.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 0

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, Cisco Unity Connection

set cert bulk consolidate

This command consolidates all the certificates that are available on the unit.

set cert bulk consolidate *unit*

Syntax Description

Parameters	Description
unit	Represents the unit name.

Command Modes

Administrator (admin:)

Usage Guidelines

You must specify the SFTP server information to use for cert bulk operations.

Requirements

Command privilege level: 1

Allowed during upgrade: Yes

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

Related Topics

set cert bulk sftp, on page 8

set cert bulk export

This command exports all the certificates that are available on the unit.

set cert bulk export *unit*

Syntax Description

Parameters	Description
export	Exports all the available certificates for this unit in this cluster to the preconfigured SFTP location.
unit	Represents the unit name.

Command Modes

Administrator (admin:)

Usage Guidelines

You must specify the SFTP server information to use for cert bulk operations.

Requirements

Command privilege level: 1

Allowed during upgrade: Yes

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

Example

```
admin:set cert bulk export all
Successfully exported tomcat certificate(s) to sftp server.
Successfully exported tftp certificate(s) to sftp server.
```

Related Topics

set cert bulk sftp, on page 8

set cert bulk import

This command imports the certificates that are in the SFTP location into the specified unit trust-store.

set cert bulk import *unit*

Syntax Description

Parameters	Description
unit	Represents the unit name.

Command Modes

Administrator (admin:)

Usage Guidelines

You must specify the SFTP server information to use for cert bulk operations.

Requirements

Command privilege level: 1

Allowed during upgrade: Yes

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

Example

```
admin:set cert bulk import all
Successfully imported tomcat certificates.
Successfully imported tftp certificates.
```

Related Topics

set cert bulk sftp, on page 8

set cert bulk sftp

This command prompts for the SFTP server information to use for bulk operations.

set cert bulk sftp

Command Modes

Administrator (admin:)

Usage Guidelines

You must specify the SFTP server information to use for cert bulk operations.

Requirements

Command privilege level: 1

Allowed during upgrade: Yes

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set cert delete

This command deletes a specific certificate file from the trust unit.

set cert delete *unit name*

Syntax Description

Parameters	Description
unit	Specifies the name of the trust category, as “own” or “trust”.
name	Certificate file name.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: Yes

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

Example

```
admin:set cert delete cucm siptest.pem
```

set cert import

This command imports the specified certificate for the specified certificate type.

set cert import *type name* [*caCert*]

Syntax Description

Parameters	Description
type	Specifies the certificate type as “own” or “trust”.
name	Represents the unit name.
[*caCert*]	Represents the name of the CA certificate file name.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: Yes

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

Example

```
admin:set cert import trust tomcat
Successfully imported certificate for tomcat.
Please restart services related to tomcat for the new certificate to
become active.
```

set cert regen

This command regenerates the certificate for the specified unit.

set cert regen *name*

Syntax Description

Parameters	Description
name	Represents the unit name.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

Example

```
admin:set cert regen tomcat
Successfully regenerated certificate for tomcat.
```

set cert regen ITLRecovery

This command regenerates the ITLRecovery certificate for the specified unit.

After you type this command, a warning message appears displaying that if you are using a tokenless CTL and if the you are regenerating the CallManager certificate, ensure that the CTL file has the updated CallManager certificate and that certificate is updated to endpoints. To regenerate the certificate, type **yes** or else type **no**.

set cert regen *ITLRecovery*

Syntax Description

Parameters	Description
ITLRecovery	Represents the ITLRecovery certificate.

Command Modes

Administrator (admin:)

Requirements

Caution You must restart the services related to ITLRecovery for the regenerated certificates to become active.

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

Example

```
admin:set cert regen ITLRecovery

WARNING: If you are using a tokenless CTL and if the CallManager certificate is recently
generated, please ensure that the CTL File already has the new CallManager certificate and
 is
updated to the endpoints, before generating the ITL Recovery certificate. Are you sure want

to proceed?

Proceed with regeneration (yes|no)? yes

Successfully Regenerated Certificate for ITLRecovery.

You must restart the services related to ITLRecovery for the regenerated certificates to
become active.
```

set cli pagination

For the current CLI session, this command turns automatic pagination On or Off.

set cli pagination on | **off**

Syntax Description

Parameters	Description
on	Turns pagination on.
off	Turns pagination off.

Command Modes Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

```
admin:set cli pagination off
Automatic pagination is turned off
```

set cli session timeout

This command sets the time, in minutes, after which an active CLI session times out and disconnects.

set cli session timeout *minutes*

Syntax Description

Parameters	Description
minutes	Specifies the time, in minutes, that can elapse before an active CLI session times out and disconnects. • Value range: 5-99999 minutes • Default value: 30 minutes

Command Modes Administrator (admin:)

Usage Guidelines Be aware that the new session timeout value becomes effective immediately for a new CLI session; however, active sessions retain their original timeout value. Also the show cli session timeout command reflects the new value, even if the current session does not use that value.

Note This setting gets preserved through a software upgrade and does not get reset to the default value.

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set commandcount

This command changes the CLI command prompt, so it displays how many CLI commands have executed.

set commandcount enable | **disable**

Syntax Description

Parameters	Description
enable	Turns on command count.
disable	Turns off command count.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set csr gen

This command generates the csr for the unit name.

set csr gen *name*

Syntax Description

Parameters	Description
name	Specifies the unit on which the certificate is generated.

Command Modes

Administrator (admin:)

Requirements

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

Example

```
admin:set csr gen tomcat
Successfully Generated CSR for tomcat.
```

Requirements

Command privilege level: 1

Allowed during upgrade: No

set cuc jetty stderrlog

This command enables or disables the error log getting generated while any standard error occurs during communicating with the Jetty server. This error log gets generated and is available at the path `/var/log/active/jetty/`.

set cuc jetty stderrlog enable | **disable**

Syntax Description

Parameters	Description
enable	Enables the error log on the Jetty server. Be aware that enable is case sensitive.
disable	Disables the error log on the Jetty server. Be aware that disable is case sensitive.

Command Modes

Administrator (admin:)

Usage Guidelines

Caution You must restart the Jetty services after enabling or disabling the error log on the Jetty server.

Requirements

Command privilege level: 0

Allowed during upgrade: No

Applies to: Cisco Unity Connection only.

Enable Error Log on Jetty Server Example

```
admin:set cuc jetty stderrlog enable

Command is executed successfully
To effect changes restart jetty server
Restart Jetty Server through Unity Connection Serviciabilty .
Go to Tools -> Service Management -> Restart Connection Jetty Service.
Check the logs that should not be generated after running above command.
Check the requestlog by sending one voice message through webinbox.
Notifications should not come in logs
```

set cuc jetty stdoutlog

This command enables or disables the standard input and output log getting generated while communicating with Jetty server. This standard input and output log gets generated and is available at the path `/var/log/active/jetty/`.

set cuc jetty stdoutlog enable | disable

Syntax Description

Parameters	Description
enable	Enables the standard input and output log on the Jetty server. Be aware that enable is case sensitive.
disable	Disables the standard input and output log on the Jetty server. Be aware that disable is case sensitive.

Command Modes

Administrator (admin:)

Usage Guidelines

Caution You must restart the Jetty services after enabling or disabling the standard input and output log on the Jetty server.

Requirements

Command privilege level: 0

Allowed during upgrade: No

Applies to: Cisco Unity Connection only.

Enable Standard Input and Output Log on Jetty Server Example

```
admin:set cuc jetty stdoutlog enable

Command is executed successfully
To effect changes restart jetty server
Restart Jetty Server through Unity Connection Serviciabilty .
Go to Tools -> Service Management -> Restart Connection Jetty Service.
Check the logs that should not be generated after running above command.
Check the requestlog by sending one voice message through webinbox.
Notifications should not  come in logs
```

set cuc jetty requestlog

This command enables or disables the request log getting generated from the Jetty server while any request is raised for notifications. This request log gets generated and is available at the path `/usr/local/jetty/logs/`.

set cuc jetty requestlog enable | disable

Syntax Description

Parameters	Description
enable	Enables the request log on the Jetty server. Be aware that "enable" is case sensitive.
disable	Disables the request log on the Jetty server. Be aware that "disable" is case sensitive.

Command Modes

Administrator (admin:)

Usage Guidelines

Caution You must restart the Jetty services after enabling or disabling the request log on the Jetty server.

Requirements

Command privilege level: 0

Allowed during upgrade: No

Applies to: Cisco Unity Connection only.

Enable Request Log on Jetty Server Example

```
admin:set cuc jetty requestlog enable

Command is executed successfully
To effect changes restart jetty server
Restart Jetty Server through Unity Connection Serviciabilty .
Go to Tools -> Service Management -> Restart Connection Jetty Service.
Check the logs that should not be generated after running above command.
Check the requestlog by sending one voice message through webinbox.
Notifications should not come in logs
```

set cuc speechview registration certificate size

This command sets up new certificate bit size for Speech to Text service registration and Voicemail transcription with Nuance server.

set cuc speechview registration certificate size bit_size

Syntax Description

Parameters	Description
bit_size	Specifies the bit_size of certificate. Its allowed values are 1k, 2k or 4k.

Command Modes

Administrator (admin:)

Usage Guidelines

To set the desired certificate bit size, use the **set cuc speechview registration certificate size** (Cisco Unity Connection Only) command. The CLI must be executed on the publisher. It will restart the Connection SpeechView Processor service.

Requirements

Command privilege level: 4

set cuc srsv timeout

This command sets the value for SRSV session timeout.

set cuc srsv timeout *timeout_value*

Syntax Description

Parameters	Description
timeout_value	Sets the time for session logout.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Cisco Unity Connection

set cuc trace

This command enables or disables the specified traces and trace levels.

set cuc trace **enable** | **disable** *trace_name level*

Syntax Description

Parameters	Description
enable	Enables Connection traces.
disable	Disables Connection traces.
trace_name	Specifies the name of the trace to enable or disable. Be aware that trace names are case sensitive.

Parameters	Description
level	Specifies the level or levels of trace_name that you want to enable or disable. Each trace comprises up to 31 levels, numbered 0 to 30; each level provides a different type of information for the specified trace. When you enable or disable multiple levels, use a comma to separate levels and a hyphen to indicate a range of levels. Do not include spaces.

Command Modes

Administrator (admin:)

Usage Guidelines

To display a list of the traces and trace levels that are currently enabled, use the **show cuc trace levels** (Cisco Unity Connection Only) command.

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Cisco Unity Connection only.

Enable VUI Traces 1, 13, and 17 Through 20 Example

```
admin:set cuc trace enable VUI 1,13,17-20
VUI trace levels are now set to: 1,13,17-20
```

Disable VUI Traces 17 Through 20 While VUI Trace Levels 1 and 13 Remain Set Example

```
admin:set cuc trace disable VUI 17-20
VUI trace levels are now set to: 1,13
```

Related Topics

show cuc trace levels

set date

This command changes the time and date on the server.

set date *HH:mm:ss:MM/DD/YY*

Syntax Description

Parameters	Description
HH:mm:ss	Represents the time format (24 hours format).
MM/DD/YY	Represents the date format. **Note** Date format MM/DD/YYYY is also accepted.

Command Modes

Administrator (admin:)

Usage Guidelines

If the server is configured to synchronize with external NTP servers, this command requires the user to remove all of those NTP servers.

Requirements

Applies to: Unified Communications Manager and Cisco Unity Connection.

Set Date and Time to 2:10:33 Pm April 13th 2012 Example

```
admin:set date 14:10:33:04/13/12
```

Requirements

Command privilege level: 1

Allowed during upgrade: No

set dscp defaults

This command sets the factory default DSCP settings for all of the port tags.

set dscp defaults

Command Modes

Administrator (admin:)

Usage Guidelines

All non-default DSCP settings get removed after you run this command.

You can use the command show dscp defaults to see the factory default DSCP settings.

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set dscp

This command enables or disables DSCP marking on outgoing TCP or UDP packets. You can enable or disable DSCP on a single port tag, or on all port tags at once.

set dscp enable | **disableall***port_tag*

Syntax Description

Parameters	Description
all	Disables all DSCP port tags.

Parameters	Description
port_tag	Represents a DSCP port tag, which is a string that is mapped to a TCP or UDP port to identify the application that uses the port. This value is for the portTag field displayed when you use the command **show dscp defaults**. The set of port tags is predefined.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set dscp marking

This command sets DSCP markings on port tags by using well-known DSCP classes and numeric values.

set dscp marking *port_tag value*

Syntax Description

Parameters	Description
port_tag	Represents a DSCP port tag, which is a string that is mapped to a TCP or UDP port to identify the application that uses the port. This value is for the portTag field displayed when you use the command **show dscp defaults**. The set of port tags is predefined.
value	A DSCP value. You can enter the name of a well-known DSCP class or a numeric value in decimal or hexadecimal format. Precede hexadecimal values with 0x or 0X.

Command Modes

Administrator (admin:)

Usage Guidelines

The valid class names as defined by DSCP are:

- Class Selector: values CS0, CS1, CS2, CS3, CS5, CS6, CS7

  The class selector (CS) values correspond to IP Precedence values and are fully compatible with IP Precedence.

- Expedited Forwarding: value EF

  EF PHB is ideally suited for applications such as VoIP that require low bandwidth, guaranteed bandwidth, low delay, and low jitter.

- Best Effort: value BE

  Also called default PHB, this value essentially specifies that a packet be marked with 0x00, which gets the traditional best-effort service from the network router.

- Assured Forwarding: values AF11, AF12, AF13, AF21, AF22, AF23, AF41, AF42, AF43

  There are four types of Assured Forwarding classes, each of which has three drop precedence values.

These precedence values define the order in which a packet is dropped (if needed) due to network congestion. For example, packets in AF13 class are dropped before packets in the AF12 class.

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set ipsec policy_group

This command enables ipsec policies with the specified policy group name.

set ipsec policy_group ALL*group*

Syntax Description

Parameters	Description
ALL	Enables all ipsec policy groups.
group	Specifies the name of a particular ipsec policy group to enable.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager and Cisco Unity Connection.

set ipsec policy_name

This command enables the specified ipsec policy.

set ipsec policy_name ALL*policy_name*

Syntax Description

Parameters	Description
ALL	Enables all ipsec policies.
policy_name	Specifies the name of a particular ipsec policy to enable.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager and Cisco Unity Connection.

set key regen authz encryption

Run this command on the Unified Communications Manager publisher node to regenerate the symmetric encryption key that encrypts OAuth access tokens and refresh tokens that are used in Cisco Jabber authentication.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 4

Allowed during upgrade: No

Applies to: Unified Communications Manager and the IM and Presence Service.

set key regen authz signing

Run this command on the Unified Communications Manager publisher node to regenerate the asymmetric RSA key pair for signing the OAuth access tokens and refresh tokens that are used in Cisco Jabber authentication.

Command Modes

Administrator (admin:)

Usage Guidelines

Requirements

Command privilege level: 4

Allowed during upgrade: No

Applies to: Unified Communications Manager and the IM and Presence Service.

set logging

This command allows you to enable or disable CLI Admin logs.

set logging enable | **disable**

Syntax Description

Parameters	Description
enable	Turns on logging.

Parameters	Description
disable	Turns off logging.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 0

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set Login Grace Timeout

This command allows you to configure the LoginGraceTimeout value to the mentioned value.

set Login Grace Timeout *LoginGraceTimeout value*

Syntax Description

Parameters	Description
LoginGraceTimeout value	Sets the LoginGraceTimeout value for login grace timeout.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: Yes

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set network cluster publisher

This command sets the network cluster publisher hostname and IP address.

set network cluster publisher hostname | **ip** *name*

Syntax Description

Parameters	Description
hostname	Specifies the hostname of the network cluster.
ip	Specifies the ip address of the network cluster.

Parameters	Description
name	Hostname or IP address to assign to the network cluster publisher.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: Yes

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set network cluster subscriber details

Use this command to add subscriber to the processnode or appserver table when Tomcat Webserver is server down and GUI is inaccessible.

set network cluster subscriber details *servertype hostname ip domainname*

Syntax Description

Parameter	Description
servertype	Choose one of these products for this parameter— Unified Communications Manager, IM and Presence Service, and Cisco Unity Connection. This field is mandatory.
hostname	The hostname of the node that you add to the cluster. The hostname is supported on the same domain. This field is mandatory.
ip	The IPv4 address of the node that you add to the cluster. This field is mandatory for IM and Presence publisher and Cisco Unity Connection.
domainname	The domain name of the IM and Presence Service publisher. This field is mandatory for IM and Presence publisher.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: Yes

Applies to Unified Communications Manager, IM and Presence Service, and Cisco Unity Connection

set network cluster subscriber dynamic-cluster-configuration

Use this command to enable the Dynamic Cluster Configuration on the publisher. Use this command to specify the duration in which you can add subscriber nodes to the publisher server table. The addition of subscriber nodes is authenticated immediately and those nodes need not wait for the publisher details during the installation of the subscriber nodes.

set network cluster subscriber dynamic-cluster-configuration default | no. of hours

Syntax Description

Parameter	Description
default	Enables the Dynamic Cluster Configuration for 24 hours.
no. of hours	Specifies a value from 1 to 24 hours.

Command Modes

Administrator (admin)

Requirements

Applies to Unified Communications Manager, IM and Presence Service, and Cisco Unity Connection

set network dhcp eth0

This command enables or disables DHCP for Ethernet interface 0. You cannot configure Ethernet interface 1.

set network dhcp eth0 enable | disable *node_ipnet_maskgateway_ip*

Syntax Description

Parameters	Description
eth0	Specifies Ethernet interface 0.
enable	This enables DHCP.
disable	This disables DHCP.
node_ip	Represents the static IP address for the server.
net_mask	Represents the subnet mask for the server.
gateway_ip	Represents the IP address of the default gateway.

Command Modes

Administrator (admin:)

Usage Guidelines

Caution If you continue, this command causes the system to restart. Cisco also recommends that you restart all nodes whenever any IP address gets changed.

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set network dns

This command sets the IP address for the primary or secondary DNS server.

set network dns **primary** | **secondary** *addr*

Syntax Description

Parameters	Description
primary	
secondary	
addr	Represents the IP address of the primary or secondary DNS server.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

Note If you change the IP address for the DNS servers, you must reboot the server through the **utils system restart** CLI command.

set network dns options

This command sets DNS options.

set network dns options [**timeout***seconds*] [**attempts***number*] [**rotate**]

Syntax Description

Parameters	Description
timeout	Sets the DNS timeout.
attempts	Sets the number of times to attempt a DNS request.
rotate	Causes the system to rotate among the configured DNS servers and distribute the load.
seconds	Specifies the DNS timeout period in seconds.
number	Specifies the number of attempts.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 0

Allowed during upgrade: Yes

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set network domain

This command sets the domain name for the system.

Note Changing the domain name triggers an automatic regeneration of all Unified Communications Manager certificates, including any third party signed certificates that have been uploaded. After the server reboots automatically, phones running in secure (mixed) mode cannot connect to the server until after the CTL client updates the new CTL file to the phones.

Note Reboot the servers one at a time in order for the phones to register correctly. For more information about changing the domain name, see *Changing the IP Address and Hostname for Cisco Unified Communications Manager*.

set network domain [*domain-name*]

Syntax Description

Parameters	Description
domain_name	Represents the system domain that you want to assign.

Command Modes

Administrator (admin:)

Usage Guidelines The system asks whether you want to continue to execute this command.

Caution If you continue, this command causes a temporary loss of network connectivity.

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set network failover

This command enables and disables Network Fault Tolerance on the Media Convergence Server network interface card.

set network failover ena | **dis**

Syntax Description

Parameters	Description
ena	Enables Network Fault Tolerance.
dis	Disables Network Fault Tolerance.

Command Modes Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set network gateway

This command enables you to configure the IP address of the network gateway.

set network gateway *addr*

Syntax Description

Parameters	Description
addr	Represents the IP address of the network gateway that you want to assign.

Command Modes Administrator (admin:)

Usage Guidelines

The system asks whether you want to continue to execute this command.

Caution If you continue, this command causes the system to restart.

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set network hostname

This command allows an administrator to set the network host name, change the IP address of the node, and restart the system.

Before attempting this command, the administrator should have a valid DRF backup. Additionally, before attempting a Hostname (or Hostname and IP address) change, the administrator should perform the following:

- verify the cluster configuration does not have any configuration problems by executing **show hcs cluster verify detailed**
- update the cluster configuration by executing **set hcs cluster config**
- validate the cluster configuration by executing **show hcs cluster verify detailed**

set network hostname *hostname*

Syntax Description

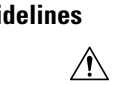
Parameters	Description
hostname	Represents the new network hostname of the system. **Note** The host name must follow the rules for ARPANET host names. It must start with an alphabetic character, end with an alphanumeric character, and consist of alphanumeric characters and hyphens. The host name can have a maximum length of 63 characters.

Command Modes

Administrator (admin:)

Usage Guidelines

The system asks whether you want to continue to execute this command.



Caution If you continue, this command causes the system to restart.

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

Example

```
admin:set network hostname

WARNING: Changing this setting will invalidate software license
on this server. The license will have to be re-hosted.
Continue(y/n):
Continue (y/n)?y

ctrl-c: To quit the input.



*** W A R N I N G ***
Do not close this window without first canceling the command.

This command will automatically restart system services.
The command should not be issued during normal operating
hours.

======================================================
Note: Please verify that the new hostname is a unique
name across the cluster and, if DNS services are
utilized, any DNS configuration is completed
before proceeding.
======================================================

Security Warning : This operation will regenerate
all CUCM Certificates including any third party
signed Certificates that have been uploaded.

Enter the hostname:: app-lfwelty5
Would you like to change the network ip address at this time [yes]::


Warning: Do not close this window until command finishes.



ctrl-c: To quit the input.



*** W A R N I N G ***
======================================================
Note: Please verify that the new ip address is unique
across the cluster.
======================================================

Enter the ip address:: 106.1.34.154
Enter the ip subnet mask:: 255.0.0.0
Enter the ip address of the gateway:: 106.1.1.1
Hostname: app-lfwelty5
IP Address: 106.1.34.154
IP Subnet Mask: 255.0.0.0
Gateway: 106.1.1.1

Do you want to continue [yes/no]? yes
```

. . .

Note The administrator can change both the hostname and IP address by responding **yes**. To change just the hostname, respond **no**.

set network ip eth0

This command sets the IP address for Ethernet interface 0. You cannot configure Ethernet interface 1.

Before attempting this command, the administrator should have a valid DRF backup. Additionally, before attempting an IP address change, the administrator should perform the following:

- verify the cluster configuration does not have any configuration problems by executing **show hcs cluster verify detailed**
- update the cluster configuration by executing **set hcs cluster config**
- validate the cluster configuration by executing **show hcs cluster verify detailed**

set network ip eth0 *addr mask gw*

Syntax Description

Parameters	Description
eth0	Specifies Ethernet interface 0.
addr	Represents the IP address that you want to assign.
mask	Represents the IP mask that you want to assign.
gw	Represents the IP default gw that you want to assign.

Command Modes

Administrator (admin:)

Usage Guidelines

The system asks whether you want to continue to execute this command.

Caution If you continue, this command causes the system to restart.

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set network ipv6 dhcp

This command sets the DHCPv6 client on the server and enables IPv6 support. For changes to take effect, you must restart the server.

set network ipv6 dhcp enable | **disable** [**reboot**]

Syntax Description

Parameters	Description
dhcp	Sets the DHCPv6 client on the server. By default, the server does not restart after you enable the DHCPv6 client. For your changes to take effect, you must restart the server by either entering the reboot parameter or manually restarting the server.
enable	Enables IPv6 support.
disable	Disables IPv6 support.
reboot	(Optional) Causes the server to automatically restart after you enter the command.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence Service on Unified Communications Manager, and Cisco Unity Connection.

set network ipv6 gateway

This command sets the IPv6 gateway for the server. For changes to take effect, you must restart the server.

set network ipv6 gateway *addr* [**reboot**]

Syntax Description

Parameters	Description
gateway	Sets the IPv6 gateway for the server. By default, the server does not restart after you set the IPv6 gateway for the server. For your changes to take effect, you must restart the server by either entering the reboot parameter or manually restarting the server.
addr	The IPv6 gateway address.
reboot	(Optional) Causes the server to automatically restart after you enter the command.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager , IM and Presence Service on Unified Communications Manager, and Cisco Unity Connection.

set network ipv6 service

This command enables or disables the IPv6 service on the server. For changes to take effect, you must restart the server.

set network ipv6 service **enable** | **disable** [**reboot**]

Syntax Description

Parameters	Description
service	Sets the IPv6 service on the server. By default, the server does not restart after you enable or disable the IPv6 service on the server. For your changes to take effect, you must restart the server by either entering the reboot parameter or manually restarting the server.
enable	Enables IPv6 service on the server.
disable	Disables IPv6 service on the server.
reboot	(Optional) Causes the server to automatically restart after you enter the command.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence Service on Unified Communications Manager, and Cisco Unity Connection.

set network ipv6 static_address

This command assigns the static IPv6 address to the server. For changes to take effect, you must restart the server.

set network ipv6 static_address *addr* *mask* [**reboot**]

Syntax Description

Parameters	Description
static_address	Assigns a static IPv6 address to the server. By default, the server does not restart after you assign the static IPv6 address. For your changes to take effect, you must restart the server by either entering the reboot parameter or manually restarting the server.

Parameters	Description
addr	Specifies the static IPv6 address you assign to the server.
mask	Specifies the IPv6 network mask (0-128).
reboot	(Optional) Causes the server to automatically restart after you enter the command.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence Service on Unified Communications Manager, and Cisco Unity Connection.

set network max_ip_conntrack

This command sets the ip_conntrack_max value.

set network max_ip_conntrack *ip_conntrack_max value*

Syntax Description

Parameters	Description
ip_conntrack_max value	Specifies the value for ip_conntrack_max. **Note** The value of ip_conntrack_max cannot be less than 65536.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 0

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

Example

```
admin:set network max_ip_conntrack 65536
```

set network mtu

This command sets the maximum MTU value.

set network mtu *mtu_max*

Syntax Description

Parameters	Description
mtu_max	Specifies the maximum MTU value. The system default MTU value equals 1500. **Caution** When packets on UDP port 8500 that have the DF bit set are exchanged between nodes, if there is any policy on the WAN router to clear the DF bit and fragment large packets, this may cause dbreplication issues.

Command Modes

Administrator (admin:)

Usage Guidelines

The system asks whether you want to continue to execute this command.

⚠

Caution If you continue, the system loses network connectivity temporarily.

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

Example

```
admin:set network mtu 576      W A R N I N G
This will cause the system to temporarily lose network connectivity
     Do you want to continue ?
Enter "yes" to continue or any other key to abort
yes
executing...
```

set network name-service hosts cache-enable

This command enables the nscd related cache.

set network name-service hosts cache-enable *value*

Syntax Description

Parameters	Description
value	The boolean value must be either *yes* or *no*.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: Yes

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set network name-service hosts max-db-size

This command sets the maximum allowed size for a service.

set network name-service hosts max-db-size *value*

Syntax Description

Parameters	Description
value	Enter the number of bytes for the database size.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: Yes

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set network name-service hosts negative-time-to-live

This command sets the time-to-live (TTL) for negative entries or unsuccessful queries in the specified cache for service. So, using this command improves the performance if there are various files owned by user IDs (UIDs) and are unavailable in system databases. For example, files that are available in the Linux kernel sources as root. To reduce the cache coherency problems, the number of such files should be kept to the minimum.

set network name-service hosts negative-time-to-live *value*

Syntax Description

Parameters	Description
value	Enter the number of seconds.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: Yes

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set network name-service hosts persistent

This command retains the content of the cache for service over server restarts. This command is useful when *paranoia* mode is configured.

set network name-service hosts persistent *value*

Syntax Description

Parameters	Description
value	Enter a value for a service.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: Yes

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set network name-service hosts positive-time-to-live

This command sets the time-to-live (TTL) for positive entries or successful queries in the specified cache for service. Configure the value in seconds. Larger values increase cache hit rates and reduce mean response times. However, such values increase problems with cache coherence.

set network name-service hosts positive-time-to-live *value*

Syntax Description

Parameters	Description
value	Enter the number of seconds.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: Yes

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set network name-service hosts suggested-size

This command changes the internal hash table size.

set network name-service hosts suggested-size *value*

Syntax Description

Parameters	Description
value	Enter a prime number for optimum efficiency.

Command Modes Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: Yes

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set network name-service services cache-enable

This command enables the nscd related cache.

set network name-service services cache-enable *value*

Syntax Description

Parameters	Description
value	The boolean value must be either *yes* or *no*.

Command Modes Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: Yes

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set network name-service services max-db-size

This command sets the maximum allowed size for the service.

set network name-service services max-db-size *value*

Syntax Description

Parameters	Description
value	Enter the value in number of bytes.

Command Modes Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: Yes

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set network name-service services negative-time-to-live

This command sets the time-to-live (TTL) for negative entries or unsuccessful queries in the specified cache for service. So, using this command improves the performance if there are various files owned by user IDs (UIDs) and are unavailable in system databases. For example, files that are available in the Linux kernel sources as root. To reduce the cache coherency problems, the number of such files should be kept to the minimum.

set network name-service services negative-time-to-live *value*

Syntax Description

Parameters	Description
value	Enter a prime number for optimum efficiency.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: Yes

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set network name-service services persistent

This command retains the content of the cache for service over server restarts. This command is useful when *paranoia* mode is configured.

set network name-service services persistent *value*

Syntax Description

Parameters	Description
value	Enter a value for a service.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: Yes

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set network name-service services positive-time-to-live

This command sets the time-to-live (TTL) for positive entries or successful queries in the specified cache for service. If you enter a large value for this command, it increases cache hit rates and reduces mean response times. However, a large value increases issues with cache coherence.

set network name-service services positive-time-to-live *value*

Syntax Description

Parameters	Description
value	Enter the number of seconds.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: Yes

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set network name-service services suggested-size

This command sets the internal hash table size.

set network name-service services suggested-size *value*

Syntax Description

Parameters	Description
value	Enter a prime number for optimum efficiency.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: Yes

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set network nic eth0

This command sets the properties of the Ethernet Interface 0. You cannot configure Ethernet interface 1.

set network nic eth0 auto | **en** | **dis speed** | **10** | **100 duplex half** | **half** | **full**

Syntax Description

Parameters	Description
eth0	Specifies Ethernet interface 0.
auto	Specifies whether auto negotiation gets enabled or disabled.
speed	Specifies whether the speed of the Ethernet connection: 10 or 100 Mb/s.
duplex	Specifies half-duplex or full-duplex.

Command Modes

Administrator (admin:)

Usage Guidelines

The system asks whether you want to continue to execute this command.

Note You can enable only one active NIC at a time.

Caution If you continue, this command causes a temporary loss of network connections while the NIC gets reset.

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set network ntp option

This command adds the *noquery* option to the `/etc/config` file.

set network ntp option

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: Yes

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set network pmtud state

This command enables and disables Path MTU Discovery.

set network pmtud state enable | disable

Syntax Description

Parameters	Description
enable	Enables Path MTU Discovery.
disable	Disables Path MTU Discovery.

Command Modes

Administrator (admin:)

Usage Guidelines

The system asks whether you want to continue to execute this command.

Caution If you continue, the system loses network connectivity temporarily.

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

Example

```
admin:set network pmtud state enable      W A R N I N G
This will cause the system to temporarily lose network connectivity
     Do you want to continue ?
Enter "yes" to continue or any other key to abort
yes
executing...
```

set network restore

This command configures the specified Ethernet port to use a specified static IP address.

set network restore eth0 *ip-address network-mask gateway*

Syntax Description

Parameters	Description
eth0	Specifies Ethernet interface 0.
ip-address	Represents the IP address of the primary or secondary DNS server, or the network gateway that you want to assign. If you continue, this command causes a temporary loss of network connectivity. If you change the IP address for the primary DNS server, you must also restart the Cisco Tomcat service. For more information, see the **utils service** command. We also recommend that you restart all nodes whenever any IP address gets changed.
network-mask	Represents the subnet mask for the server.
gateway	Specifies the IP address of the default gateway.
ip-address	Represents the IP address of the primary or secondary DNS server, or the network gateway that you want to assign. If you continue, this command causes a temporary loss of network connectivity. If you change the IP address for the primary DNS server, you must also restart the Cisco Tomcat service. For more information, see the **utils service** command. We also recommend that you restart all nodes whenever any IP address gets changed.

Command Modes

Administrator (admin:)

Usage Guidelines

Caution Only use this command option if you cannot restore network connectivity through any other set network commands. This command deletes all previous network settings for the specified network interface, including Network Fault Tolerance. After you run this command, you must restore your previous network configuration manually.

Caution The server temporarily loses network connectivity after you run this command.

Requirements

Command privilege level: 0

Allowed during upgrade: Yes

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

Example

```
admin:set network restore eth0   10.94.150.108   255.255.255.0   10.94.150.1
```

set network status eth0

This command sets the status of Ethernet 0 to up or down. You cannot configure Ethernet interface 1.

set network status eth0 up | **down**

Syntax Description

Parameters	Description
eth0	Specifies Ethernet interface 0.
up	Sets the status of Ethernet interface 0 to up.
down	Sets the status of Ethernet interface 0 to down.

Command Modes

Administrator (admin:)

Usage Guidelines

The system asks whether you want to continue to execute this command.

Caution If you continue, the system loses network connectivity temporarily.

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set network name-service

This command displays name service cache attributes.

set network name-service [**attribute**] [**value**]

Syntax Description

Attribute	Value
Paranoia	Bool must be either Yes or No. Enabling paranoia mode causes Name Service to restart itself periodically.
debug-level	If level is higher than 0, Name Service will create some debug output. Higher the level, more verbose the output.
reload-count	Sets the number of times a cached record is reloaded before it is pruned from the cache. Each cache record has a timeout. When that timeout expires Name Service will either reload it (query the NSS service again if the data hasn't changed) or drop it.

Attribute	Value
restart-interval	Sets the restart interval to time seconds if periodic restart is enabled by enabling paranoia mode. The default value is 3600.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: No

set password complexity minimum-length

This command modifies the value of minimum password length for the OS administration accounts.

Note Use this command after you enable the character complexity of passwords.

set password complexity minimum-length *max-repeat*

Syntax Description

Parameters	Description
value	Enter a value of or greater than 6.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set password age

This command modifies the value for password age, in days, for Cisco Collaboration Communication OS (C3OS) accounts.

set password age **maximum** | **minimum** *days*

Syntax Description

Parameters	Description
maximum	Specifies the maximum age.
minimum	Specifies the minimum age.

Parameters	Description
days	Specifies the maximum password age and must be greater-than or equal-to 90 days.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set password change-at-login

Use this command to force new or existing users to change their password when they sign in to the system the next time.

set password change-at-login disable | **enable** *userid*

Syntax Description

Parameters	Description
disable	This does not force users to change their password.
enable	This forces users to change their password when they sign in to the system the next time.
userid	Specifies the affected user account.

Command Modes

Administrator (admin:)

Usage Guidelines

By default, this command is enabled for new users, so users have to change their password the first time they sign in to the system.

Requirements

Command privilege level: 4

Allowed during upgrade: No

Applies to: IM and Presence service on Unified Communications Manager only.

set password complexity character

Use this command to enable or disable password complexity rules for the type of characters in a password.

Note After you enable password complexity, this command also enables password history if it has not already been enabled (for more information, see the **set password history** command). If you had not previously enabled password history, the password history number parameter value gets set to 10. If you previously enabled password history with a value of less than 10, the value gets reset to 10 after you execute this command. If you previously enabled password history with a value of 10 or greater, the value remains unchanged after you execute this command.

set password complexity character disable | **enable** *num-char*

Syntax Description

Parameters	Description
disable	This turns off password complexity for character types.
enable	This turns on password complexity for character types. **Note** When you disable password complexity, you also turn off **password character difference**, **password character max-repeat**, and **password history**.
num-char	This specifies the number of characters required from each of the four character sets: lowercase, uppercase, numbers, and special characters. • Value range: 0-8 • Default value: 1

Command Modes

Administrator (admin:)

Usage Guidelines

When you enable password complexity, you must follow these guidelines when you assign a password:

- It must have at least the current setting, num-chars, of lower-case character.
- It must have at least the current setting, num-chars, of uppercase characters.
- It must have at least the current setting, num-chars, of digit characters.
- It must have at least the current setting, num-chars, of special characters.
- You cannot use adjacent characters on the keyboard; for example, qwerty.
- You cannot reuse any of the previous passwords that match the passwords retained by password history.
- By default, the admin user password can be changed only once in a 24-hour day.

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set password complexity character difference

This command specifies the number of characters that the character sequence in a new password must differ from the character sequence in the old password.

set password complexity character difference *num-char*

Syntax Description

Parameters	Description
num-char	This specifies the number of characters that the character sequence in a new password must differ from the character sequence in the old password. • Value range: 0-31

Command Modes

Administrator (admin:)

Usage Guidelines

Enter 0 to indicate no difference.

Note The maximum password length is 31 characters.

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set password complexity character max-repeat

This command specifies the number of times you can consecutively repeat a single character in a new password.

set password complexity character max-repeat *max-repeat*

Syntax Description

Parameters	Description
max-repeat	This specifies the number of times you can consecutively repeat a single character in a new password. • Value range: 0 – 10 Default value: 0

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set password expiry maximum-age

This command enables or disables the password expiry maximum age settings for Cisco Collaboration Communication OS (C3OS) Administrator accounts.

set password expiry maximum-age enable | **disable**

Syntax Description

Parameters	Description
enable	Turns on password expiry maximum age settings for Cisco Unified Operating System administrator accounts. The set password expiry enable command sets the value of **maximum password age** to 3650 days (10 yrs) for Cisco Unified Operating System Administrator accounts.
disable	Turns off password expiry maximum age settings for Cisco Unified Operating System administrator accounts. The set password expiry disable command results in Cisco Unified Operating System Administrator accounts never expiring.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

Example

```
admin:set password expiry maximum-age disable
Operation Successful.
```

set password expiry user maximum-age configure

This command modifies the value of the maximum password age for a particular Cisco Collaboration Communication OS Administration account in days.

set password expiry user maximum-age configure *userid maximum password age*

Syntax Description

Parameters	Description
userid	Enter Cisco Collaboration Communication OS (C3OS) Administrator account.
maximum password age	Enter the maximum password age in days. This value must be equal to or greater than 10 days but less than 3650 days (10 years).

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: Yes

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set password expiry minimum-age

This command enables or disables the password expiry minimum age settings for Cisco Unified Operating System Administrator accounts.

set password expiry minimum-age enable | **disable**

Syntax Description

Parameters	Description
enable	Turns on password expiry minimum age settings for Cisco Unified Operating System administrator accounts. The set password expiry enable command sets the value of minimum password age to one day (24 hrs) for Cisco Collaboration Communication OS (C3OS) Administrator accounts.

Parameters	Description
disable	Turns off password expiry minimum age settings for Cisco Collaboration Communication OS (C3OS) administrator accounts. This means that passwords for administrator accounts can be changed at any interval.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

Example

```
admin:set password expiry minimum-age disable
Operation Successful.
```

set password expiry user maximum-age

This command disables the maximum age password expiry for a particular Cisco Unified Operating System Administrator account.

set password expiry user maximum-age enable | **disable***userid*

Syntax Description

Parameters	Description
enable	Turns on the maximum age password expiry settings for a particular Cisco Collaboration Communication OS (C3OS) administrator account. The set password expiry user enable command sets the value of maximum password age to 3650 days (10 yrs) for the Cisco Unified Operating System Administrator account.
disable	Turns on the maximum age password expiry settings for a particularCisco Collaboration Communication OS (C3OS) administrator account. The set password expiry user enable command sets the value of maximum password age to 3650 days (10 yrs) for the Cisco Unified Operating System Administrator account.
userid	Specifies a particular Cisco Collaboration Communication OS (C3OS) Administrator account.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

Example

```
admin:set password expiry user maximum-age enable
Operation Successful.
```

set password expiry user minimum-age

This command enables or disables the maximum age password expiry for a particular Cisco Unified Operating System Administrator account.

set password expiry user minimum-age enable | **disable** *userid*

Syntax Description

Parameters	Description
enable	Turns on the minimum age password expiry settings for a particular Cisco Unified Operating System administrator account.
disable	Turns off the minimum age password expiry settings for a particular Cisco Unified Operating System administrator account.
userid	Specifies a particular Cisco Unified Operating System Administrator account.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

Example

```
admin:set password expiry user minimum-age disable
Operation Successful.
```

set password history

This command modifies the number of passwords that get maintained in the history for OS admin accounts. New passwords matching remembered passwords get rejected.

set password history *number*

Syntax Description

Parameters	Description
number	Specifies the mandatory number of passwords to maintain in history.

Command Modes

Administrator (admin:)

Usage Guidelines

- To disable, enter 0.
- Default specifies 10.
- Upper limit specifies 20.

Requirements

Command privilege level: 1

Allowed during upgrade: Yes

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set password inactivity

set password inactivity enable | disable | period *days*

Syntax Description

Parameters	Description
enable	Enable the password inactivity globally and update individual OS users according to the setting.
disable	Disable the password inactivity globally and update individual OS users according to the setting.
period	Configure the password inactivity period globally and update individual OS users according to the setting.
days	Specify the number of days of inactivity after a password has expired before the account gets disabled. Valid range is 1 - 99.

Command Modes

Administrator (admin:)

Usage Guidelines

- To enable password inactivity globally, execute the set password inactivity enable command. This command enables the password inactivity globally and updates individual OS users according to the setting.

- To disable password inactivity globally, execute the set password inactivity disable command. This command disables the password inactivity globally and updates individual OS users according to the setting.

  A user whose account is disabled must contact the system administrator to use the system again.

- To configure the password inactivity period execute the set password inactivity period days command. This command configures the password inactivity globally and updates individual OS users according to the setting.

Requirements

Command privilege level: 0

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set password system bootloader encryptHash

Use this command to configure the encrypted password in the `grub.conf` file for the system boot loader.

set password system bootloader encryptHash

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 4

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set password user admin

This command allows you to change the administrator password.

set password user admin

Command Modes

Administrator (admin:)

Usage Guidelines

The systems prompts you for the old and new passwords.

Note

- You can change the password only for the administrator account that you logged in to.
- The password must contain at least six characters, and the system checks it for strength.

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set password user security

This command allows you to change the security password.

set password user security

Command Modes

Administrator (admin:)

Usage Guidelines

The systems prompts you for the old and new passwords.

Note The password must contain at least six characters, and the system checks it for strength.

Note Before running the `set user password security` command on the IM and Presence Service servers (nodes), you must first go to the **Cisco Unified CM IM and Presence Administration** > **System** > **CUCM Publisher** window for each IM and Presence Service server (node), and enter the new security password.

Servers in a cluster use the security password to authenticate communication between servers. You must reset the cluster after you change the security password.

1. Change the security password on the publisher server (first node) and then reboot the server (node).
2. Change the security password on all the subsequent servers and nodes to the same password that you created on the first node and restart subsequent nodes, including application servers, to propagate the password change.

Note Cisco recommends that you restart each server after the password is changed on that server.

Note Failure to reboot the servers (nodes) causes system service problems and problems with the Cisco Collaboration Communication OS (C3OS) Administration windows on the subscriber servers.

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

Set replication-sync monitor

This command enables or disables replication monitoring by the Cisco Replication Watcher service. The Cisco Replication Watcher service blocks other services from starting until database replication is setup and functioning normally.

set replication-sync monitor {enable | disable}

Syntax Description

Parameters	Description
enable	Turns on the replication monitoring service.
disable	Turns off the replication monitoring service

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: IM and Presence service on Unified Communications Manager only

set samltrace level

This command sets the SAML trace level.

set samltrace level *trace level*

Syntax Description

Parameters	Description
trace level	Specifies the trace level. The available options are: • DEBUG • INFO • WARNING • ERROR • FATAL **Note** The default trace level is INFO.

Command Modes Administrator (admin:)

Requirements

Command privilege level: 0

Allowed during upgrade: Yes

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set session maxlimit

This command sets the upper limit for concurrent sessions.

set session maxlimit [*value*]

Syntax Description

Parameters	Description
maxlimit	This command sets the upper limit for concurrent sessions. Acceptable values are 1 - 100. If no upper limit is entered, the default value of 10 is assigned to sshd_config param.
value	Acceptable values are 1 - 100.

Command Modes Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: Yes

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set smtp

This command sets the SMTP server hostname.

set smtp *hostname*

Syntax Description

Parameters	Description
hostname	Represents the SMTP server name.

Command Modes Administrator (admin:)

Requirements

Command privilege level: 0

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set strace enable

This command enables the service trace and sets the trace level.

set strace enable [*all*]*tracevalue servicename*

Syntax Description

Parameters	Description
all	Optional parameter to propagate the service trace settings change to all nodes.
tracevalue	Represents allowed trace values. Allowed trace values are [Info|Debug|Warn|Error|Fatal]
servicename	Represents the service for which the trace is enabled.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 0

Allowed during upgrade: No

Applies to: IM and Presence service on Unified Communications Manager

set strace disable

This command disables the service trace.

set strace disable [*all*] *servicename*

Syntax Description

Parameters	Description
all	Optional parameter to propagate the service trace settings change to all nodes.
servicename	Represents the service for which the trace is enabled.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 0

Allowed during upgrade: No

Applies to: IM and Presence service on Unified Communications Manager

set timezone

This command lets you change the system timezone.

set timezone *zone*

Syntax Description

Parameters	Description
zone	Specifies the new timezone. Enter the appropriate string or zone index id to uniquely identify the timezone. To view a list of valid timezones, use the CLI command: **show timezone list**.

Command Modes

Administrator (admin:)

Usage Guidelines

Enter characters to uniquely identify the new timezone. Be aware that the timezone name is case-sensitive.

Note Changing the system time zone to US time zone may require system compliance to FCC Call Routing Regulations in US. Unified Communications Manager Administrator must refer the Emergency Call Routing Regulations page and complete necessary configuration.

Caution You must restart the system after you change the timezone.

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

Example Setting Timezone to Pacific Time

```
admin:set timezone Pac
```

set tls min-version

This command sets the minimum version of Transport Layer Security (TLS) protocol.

Note

- After you set the minimum TLS version, the system reboots.
- Configure the minimum TLS version for each node.

set tls min-version *tls minVersion*

Syntax Description

Parameters	Description
tls minVersion	Type one of the following options to set it as the minimum TLS version: • 1.0 • 1.1 • 1.2

Command Modes

Administrator (admin:)

Usage Guidelines

Requirements

Command privilege level: 1

Allowed during upgrade: Yes

Applies to: Unified Communications Manager and IM and Presence Service on Unified Communications Manager

Example

```
admin: set tls min-version 1.1

This command will result in setting minimum TLS version to 1.1 on all the secure interfaces.
If you have custom applications that makes secure connection to the system, please ensure
they support the TLS version you have chosen to configure.
Also, please refer to the Cisco Unified Reporting Administration Guide to ensure the
endpoints in your deployment supports this feature.

********************************************************************************************

Warning: This will set the minimum TLS to 1.1 and the server will reboot.

********************************************************************************************

Do you want to continue (yes/no) ? yes

Successfully set minimum TLS version to 1.1

The system will reboot in few minutes.
```

set trace disable

This command unsets trace activity for the specified task.

set trace disable *tname*

Syntax Description

Parameters	Description
disable	Unsets the task trace settings.

Parameters	Description
tname	Represents the task for which you want to disable traces.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set trace enable

This command sets trace activity for the specified task.

set trace enable **Arbitrary** | **Detailed** | **Entry_exit** | **Error** | **Significant** | **Special** | **State_Transition** *tname*

Syntax Description

Parameters	Description
Arbitrary	Sets task trace settings to the arbitrary level.
Detailed	Sets task trace settings to the detailed level.
Entry_exit	Sets task trace settings to the entry_exit level.
Error	Sets task trace settings to the error level.
Significant	Sets task trace settings to the significant level.
Special	Sets task trace settings to the special level.
State_transition	Sets task trace settings to the state transition level.
tname	Represents the task for which you want to disable traces.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set tlsresumptiontimeout

This command sets the number of seconds after which TLS resumption will not work and sessions are invalidated.

set tlsresumptiontimeout *seconds*

Syntax Description

Parameters	Description
seconds	Enter a value up to 3600 seconds. The TLS sessions are invalid after the configured value.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: Yes

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set tlstrace*

Unified Communications Manager Release 11.0 onwards, you can enable or disable TLS tracing for services. Currently, Tomcat is the only supported service. Use the CLI commands to view the reasons of connection failure of TLS connections to Unified Communications Manager.

Following TLS-based CLI commands are added for TLS tracing:

set tlstrace disable

This CLI command disables the TLS tracing for a service.

set tlstrace disable *service*

Syntax Description

Parameters	Description
service	Specifies the service that you use to disable TLS tracing.

Command Modes

Administrator (admin:)

Example

```
admin:set tlstrace disable tomcat
TLS tracing is disabled for: tomcat
```

Requirements

Command privilege level: 1

Allowed during upgrade: No

set tlstrace enable

This CLI command enables the TLS tracing for a service.

set tlstrace enable *service*

Syntax Description

Parameters	Description
service	Specifies the service that you use to enable TLS tracing.

Command Modes

Administrator (admin:)

Example

```
admin:set tlstrace enable tomcat
TLS tracing is enabled for: tomcat
```

Requirements

Command privilege level: 1

Allowed during upgrade: No

set web-security

This command sets the web security certificate information for the operating system.

set web-security *orgunit orgname locality state* [*country*] [*alternatehostname*]

Syntax Description

Parameters	Description
orgunit	Represents the organizational unit (OU) name. You can use this command to enter multiple organizational units. To enter more than one organizational unit name, separate the entries with a comma. For entries that already contain a comma, enter a backslash before the comma that is included as part of the entry. To enter multiple values for organizational unit, enclose them in quotation marks, as shown in the example for this command. **Note** For OU's that already contains a backslash, do not enter one more backslash as SLM registration and CSR generation fails during the time of installation.
orgname	Represents the organizational name.
locality	Represents the organization location.

Parameters	Description
state	Represents the organization state.
country	(Optional) Represents the organization country.
alternatehostname	(Optional) Specifies an alternate name for the host when you generate a web-server (Tomcat) certificate. You can use alternatehostname to set subject alternate hostname for self signed certificates. Subject alternate hostname for CSR is defined in the Certificate Management page. If you have set the alternate hostname for CSR using this command, the CSR generation process replaces the set alternate hostname.

Note The set web-security command when adding in the alternate hostname will apply and will be added to all future generated CSR's including, Tomcat, CallManager, CAPF, TVS, and IPsec.

Command Modes

Administrator (admin:)

Usage Guidelines

In case you are planning to rebuild the Unified CM server, ensure that you should use the same OU subject parameters. Else, this will create discrepancies when you execute the command **show web-security**. This is because the platformConfig.xml file will not have the saved parameters information provided before the rebuild as this file is not backed up during DRS backup.

Requirements

Command privilege level: 0

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

Example

This example shows the web-security command with multiple organizational unit names using comma separators. The certificate has three OU fields:

- OU=accounting
- OU=personnel, CA
- OU=personnel, MA

```
admin:set web-security “accounting,personnel\,CA,personnel\,MA” Cisco Milpitas
CA
set web-security "Voice\Video" "Cisco" "RTP" NC
```

set webapp session timeout

This command sets the time, in minutes, that can elapse before a web application, such as Unified Communications Manager Administration, times out and logs off the user.

For the new webapp session timeout setting to become effective, you must restart the Cisco Tomcat service. Until you restart the Cisco Tomcat service, the **show webapp session timeout** command reflects the new values, but system continues to use and reflect the old values. This command prompts you to restart the service.

Caution Restarting the Cisco Tomcat service ends all active sessions and can affect system performance. Cisco recommends that you only execute this command during off-peak traffic hours.

Note This setting gets preserved through a software upgrade and does not get reset to the default value.

set webapp session timeout *minutes*

Syntax Description

Parameters	Description
minutes	Specifies the time, in minutes, that can elapse before a web application times out and logs off the user. • Value range: 5-99999 minutes • Default value: 30 minutes

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: No

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.

set workingdir

This command sets the working directory for active, inactive, and installation logs.

set workingdir activelog | **inactivelog** | **tftp** *directory*

Syntax Description

Parameters	Description
activelog	Sets the working directory for active logs. Choose a valid sub-directory of activelog.

Parameters	Description
inactivelog	Set the working directory for inactive logs. Choose a valid sub-directory of inactivelog.
tftp	Sets the working directory for TFTP files.
directory	Represents the current working directory.

Command Modes

Administrator (admin:)

Requirements

Command privilege level: 1

Allowed during upgrade: Yes

Applies to: Unified Communications Manager, IM and Presence service on Unified Communications Manager, and Cisco Unity Connection.