User Management

This chapter includes the following sections:

Cisco UCS Central User Accounts

User accounts are used to access the system. Up to 128 user accounts can be configured in each Cisco UCS Central domain. Each user account must have a unique username and password.

A user account can be set with a SSH public key. The public key can be set in either of the two formats: OpenSSH and SECSH.

Admin Account

Cisco UCS Central has an admin account. The admin account is a default user account and cannot be modified or deleted. This account is the system administrator or superuser account and has full privileges. There is no default password assigned to the admin account; you must choose the password during the initial system setup.

The admin account is always active and does not expire. You cannot configure the admin account as inactive.

The local admin user is able to login for fail over, even when authentication is set to remote.

Locally Authenticated User Accounts

A locally authenticated user account is authenticated through the Cisco UCS Central user database, and can be enabled or disabled by anyone with admin or aaa privileges. Once a local user account is disabled, the user cannot log in. Configuration details for disabled local user accounts are not deleted by the database. If you re-enable a disabled local user account, the account becomes active again with the existing configuration, including username and password.

Remotely Authenticated User Accounts

A remotely authenticated user account is any Cisco UCS Central user account that is authenticated through LDAP. Cisco UCS domainssupport LDAP, RADIUS and TACACS+.

If a user maintains a local user account and a remote user account simultaneously, the roles defined in the local user account override those maintained in the remote user account.

Expiration of User Accounts

User accounts can be configured to expire at a predefined time. When the expiration time is reached, the user account is disabled.

By default, user accounts do not expire.

Note After you configure a user account with an expiration date, you cannot reconfigure the account to not expire. You can, however, configure the account with the latest expiration date available.

Guidelines for Creating Usernames

The username is also used as the login ID for Cisco UCS Central. When you assign login IDs to Cisco UCS Central user accounts, consider the following guidelines and restrictions:

- The login ID can contain between 1 and 32 characters, including the following:
  - Any alphabetic character
  - Any digit
  - _ (underscore)
  - - (dash)
  - . (dot)
- The login ID must be unique within Cisco UCS Central.
- The login ID must start with an alphabetic character. It cannot start with a number or a special character, such as an underscore.
- The login ID is case-sensitive.
- You cannot create an all-numeric login ID.
- After you create a user account, you cannot change the login ID. You must delete the user account and create a new one.

Reserved Words: Locally Authenticated User Accounts

The following words cannot be used when creating a local user account in Cisco UCS.

- root
- bin

- daemon
- adm
- lp
- sync
- shutdown
- halt
- news
- uucp
- operator
- games
- gopher
- nobody
- nscd
- mailnull
- mail
- rpcuser
- rpc
- mtsuser
- ftpuser
- ftp
- man
- sys
- samdme
- debug

Creating a Locally Authenticated User Account

At a minimum, we recommend that you create the following users:

- Server administrator account
- Network administrator account
- Storage administrator

Before You Begin

Perform the following tasks, if the system includes any of the following:

- Remote authentication services, ensure the users exist in the remote authentication server with the appropriate roles and privileges.
- Multi-tenancy with organizations, create one or more locales. If you do not have any locales, all users are created in root and are assigned roles and privileges in all organizations.
- SSH authentication, obtain the SSH key.

Procedure

Step 1 UCSC# **connect policy-mgr**
Enters policy manager mode.

Step 2 UCSC(policy-mgr)# **scope org /**
Enters the organization root.

Step 3 UCSC(policy-mgr) /org # **scope device-profile**
Enters device profile mode for the specified organization.

Step 4 UCSC(policy-mgr) /org/device-profile # **scope security**
Enters security mode.

Step 5 UCSC(policy-mgr) /org/device-profile/security # **create local-user** *local-user-name*
Creates a user account for the specified local user and enters security local user mode.

Step 6 UCSC(policy-mgr) /org/device-profile/security/local-user* # **set account-status** {**active** | **inactive**}
Specifies whether the local user account is enabled or disabled.

The admin user account is always set to active. It cannot be modified.

Note If you set the account status to inactive, the configuration is not deleted from the database. The user is prevented from logging into the system using their existing credentials.

Step 7 UCSC(policy-mgr) /org/device-profile/security/local-user* # **set password** *password*
Sets the password for the user account

Step 8 (Optional) UCSC(policy-mgr) /org/device-profile/security/local-user* # **set firstname** *first-name*
Specifies the first name of the user.

Step 9 (Optional) UCSC(policy-mgr) /org/device-profile/security/local-user* # **set lastname** *last-name*
Specifies the last name of the user.

Step 10 (Optional) UCSC(policy-mgr) /org/device-profile/security/local-user* # **set expiration** *month day-of-month year*
Specifies the date that the user account expires. The *month* argument is the first three letters of the month name.

Note After you configure a user account with an expiration date, you cannot reconfigure the account to not expire. You can, however, configure the account with the latest expiration date available.

Step 11 (Optional) UCSC(policy-mgr) /org/device-profile/security/local-user* # **set email** *email-addr*
Specifies the user e-mail address.

Step 12 (Optional) UCSC(policy-mgr) /org/device-profile/security/local-user* # **set phone** phone-num
Specifies the user phone number.

Step 13 (Optional) UCSC(policy-mgr) /org/device-profile/security/local-user* # **set sshkey** *ssh-key*

Specifies the SSH key used for passwordless access.

Step 14 UCSC(policy-mgr) /org/device-profile/security/local-user* # **commit-buffer**
Commits the transaction.

The following example shows how to create the user account named kikipopo, enable the user account, set the password to foo12345, and commit the transaction:

```
UCSC # connect policy-mgr
UCSC(policy-mgr)# scope org /
UCSC(policy-mgr) /org # scope device-profile
UCSC(policy-mgr) /org/device-profile # scope security
UCSC(policy-mgr) /org/device-profile/security # create local-user kikipopo
UCSC(policy-mgr) /org/device-profile/security/local-user* # set account-status active
UCSC(policy-mgr) /org/device-profile/security/local-user* # set password
Enter a password:
Confirm the password:
UCSC(policy-mgr) /org/device-profile/security/local-user* # commit-buffer
UCSC(policy-mgr) /org/device-profile/security/local-user #
```

The following example shows how to create the user account named lincey, enable the user account, set an OpenSSH key for passwordless access, and commit the transaction.

```
UCSC # connect policy-mgr
UCSC(policy-mgr)# scope org /
UCSC(policy-mgr) /org # scope device-profile
UCSC(policy-mgr) /org/device-profile # scope security
UCSC(policy-mgr) /org/device-profile/security # create local-user lincey
UCSC(policy-mgr) /org/device-profile/security/local-user* # set account-status active
UCSC(policy-mgr) /org/device-profile/security/local-user* #  set sshkey "ssh-rsa
AAAAB3NzaC1yc2EAAAA
BIwAAAIEAuo9VQ2CmWBI9/S1f30klCWjnV3lgdXMzO0WUl5iPw85lkdQqap+NFuNmHcb4KiaQB8X/PDdmtlxQQcawclj+k8f4
VcOelBxlsGk5luq5ls1ob1VOIEwcKEL/h5lrdbNlI8y3SS9I/gGiBZ9ARlop9LDpDm8HPh2LOgyH7Ei1MI8="
UCSC(policy-mgr) /org/device-profile/security/local-user* # commit-buffer
UCSC(policy-mgr) /org/device-profile/security/local-user #
```

The following example shows how to create the user account named jforlenz, enable the user account, set a Secure SSH key for passwordless access, and commit the transaction.

```
UCSC # connect policy-mgr
UCSC(policy-mgr)# scope org /
UCSC(policy-mgr) /org # scope device-profile
UCSC(policy-mgr) /org/device-profile # scope security
UCSC(policy-mgr) /org/device-profile/security # create local-user jforlenz
UCSC(policy-mgr) /org/device-profile/security/local-user* # set account-status active
UCSC(policy-mgr) /org/device-profile/security/local-user* #  set sshkey
Enter lines one at a time. Enter ENDOFBUF to finish. Press ^C to abort.
User's SH key:
> ---- BEGIN SSH2 PUBLIC KEY ----
> AAAAB3NzaC1yc2EAAAABIwAAAIEAuo9VQ2CmWBI9/S1f30klCWjnV3lgdXMzO0WUl5iPw8
> 5lkdQqap+NFuNmHcb4KiaQB8X/PDdmtlxQQcawclj+k8f4VcOelBxlsGk5luq5ls1ob1VO
> IEwcKEL/h5lrdbNlI8y3SS9I/gGiBZ9ARlop9LDpDm8HPh2LOgyH7Ei1MI8=
> ---- END SSH2 PUBLIC KEY ----
> ENDOFBUF
UCSC(policy-mgr) /org/device-profile/security/local-user* # commit-buffer
UCSC(policy-mgr) /org/device-profile/security/local-user #
```

Deleting a Locally Authenticated User Account

Procedure

Step 1 UCSC# **connect policy-mgr**
Enters policy manager mode.

Step 2 UCSC(policy-mgr)# **scope org /**
Enters the organization root.

Step 3 UCSC(policy-mgr) /org # **scope device-profile**
Enters device profile mode for the specified organization.

Step 4 UCSC(policy-mgr) /org/device-profile # **scope security**
Enters security mode.

Step 5 UCSC(policy-mgr) /org/device-profile/security # **delete local-user** *local-user-name*
Deletes the local-user account.

Step 6 UCSC(policy-mgr) /org/device-profile/security* # **commit-buffer**
Commits the transaction to the system configuration.

The following example deletes the foo user account and commits the transaction:

```
UCSC # connect policy-mgr
UCSC(policy-mgr)# scope org
UCSC(policy-mgr)/org# scope device-profile
UCSC(policy-mgr) /org/device-profile # scope security
UCSC(policy-mgr) /org/device-profile/security # delete local-user foo
UCSC(policy-mgr) /org/device-profile/security* # commit-buffer
UCSC(policy-mgr) /org/device-profile/security #
```

Enabling the Password Strength Check for Locally Authenticated Users

You must be a user with admin, aaa, or domain-group-management privileges to enable the password strength check. If the password strength check is enabled, Cisco UCS Central does not permit a user to choose a password that does not meet the guidelines for a strong password.

Procedure

Step 1 UCSC# **connect policy-mgr**
Enters policy manager mode.

Step 2 UCSC(policy-mgr)# **scope org /**
Enters the organization root.

Step 3 UCSC(policy-mgr) /org # **scope device-profile**
Enters device profile mode for the specified organization.

Step 4 UCSC(policy-mgr) /org/device-profile # **scope security**

Enters security mode.

Step 5 UCSC(policy-mgr) /org/device-profile/security # **scope password-profile**.
Specifies whether the password strength check is enabled or disabled.

Step 6 UCSC(policy-mgr) /org/device-profile/security/password-profile # **set enforce-strong-password** {**yes** | **no**}
Specifies whether the password strength check is enabled or disabled.

The following example enables the password strength check:

```
UCSC # connect policy-mgr
UCSC(policy-mgr)# scope org /
UCSC(policy-mgr) /org # scope device-profile
UCSC(policy-mgr) /org/device-profile # scope security
UCSC(policy-mgr) /org/device-profile/security # scope password-profile
UCSC(policy-mgr) /org/device-profile/security/password-profile # set enforce-strong-password
 yes
UCSC(policy-mgr) /org/device-profile/security/password-profile #
```

Clearing the Password History for a Locally Authenticated User

You must have admin, aaa, or org/device-profile-management privileges to change the password profile properties.

Procedure

Step 1 UCSC# **connect policy-mgr**
Enters policy manager mode.

Step 2 UCSC(policy-mgr)# **scope org /**
Enters the organization root.

Step 3 UCSC(policy-mgr) /org # **scope device-profile**
Enters device profile mode for the specified organization.

Step 4 UCSC(policy-mgr) /org/device-profile # **scope security**
Enters security mode.

Step 5 UCSC(policy-mgr) /org/device-profile/security # **scope local-user** *local-user-name*
Commits the transaction.

Step 6 UCSC(policy-mgr) /org/device-profile/security/local-user # **scope password-profile**
Enters password profile security mode.

Step 7 UCSC(policy-mgr) /org/device-profile/security/password-profile # **set history-count** 0
Setting the **History Count** field to 0 (the default setting) disables the history count and allows users to reuse previously used passwords at any time.

Step 8 UCSC(policy-mgr) /org/device-profile/security/password-profile # **commit-buffer**
Commits the transaction to the system configuration.

The following example shows how to clear the password history count for the user account named kikipopo, and commit the transaction:

```
UCSC # connect policy-mgr
UCSC(policy-mgr)# scope org /
UCSC(policy-mgr) /org # scope device-profile
UCSC(policy-mgr) /org/device-profile # scope security
UCSC(policy-mgr) /org/device-profile/security # scope local-user kikipopo
UCSC(policy-mgr) /org/device-profile/security/local-user # scope password-profile
UCSC(policy-mgr) /org/device-profile/security/password-profile # set history-count 0
UCSC(policy-mgr) /org/device-profile/security/password-profile* # commit-buffer
UCSC(policy-mgr) /org/device-profile/security/password-profile #
```

Enabling or Disabling a User Account

You must be a user with admin, aaa, or domain-group-management privileges to enable or disable a local user account.

Before You Begin

Create a local user account.

Procedure

Step 1 UCSC# **connect policy-mgr**
Enters policy manager mode.

Step 2 UCSC(policy-mgr)# **scope org**
Enters the organization root.

Step 3 UCSC(policy-mgr) /org # **scope device-profile**
Enters device profile mode for the specified organization.

Step 4 UCSC(policy-mgr) /org/device-profile # **scope security**
Enters security mode.

Step 5 UCSC(policy-mgr) /org/device-profile/security # **scope local-user**
Enters local-user security mode.

Step 6 UCSC(policy-mgr) /org/device-profile/security/local-user # **set account-status** {**active** | **inactive**}
Specifies whether the local user account is enabled or disabled.

The admin user account is always set to active. It cannot be modified.

Note If you set the account status to inactive, the configuration is not deleted from the database. The user is prevented from logging into the system using their existing credentials.

The following example shows how to enable a local user account called accounting:

```
UCSC # connect policy-mgr
UCSC(policy-mgr)# scope org /
UCSC(policy-mgr) /org # scope device-profile
UCSC(policy-mgr) /org/device-profile # scope security
UCSC(policy-mgr) /org/device-profile/security # scope local-user accounting
UCSC(policy-mgr) /org/device-profile/security/local-user # set account-status active
```

Web Session Limits for User Accounts

Cisco UCS Central does not support managing a number of concurrent web sessions at this time. We do support 32 concurrent web sessions for Cisco UCS Central users and a total of 256 concurrent sessions for all users.

Monitoring User Sessions

Procedure

	Command or Action	Purpose
Step 1	UCSC# **scope system**	Enters system mode.
Step 2	UCSC /system # **scope security**	Enters security mode.
Step 3	UCSC /security # **show user-sessions** {**local** | **remote**} [**detail**]	Displays session information for all users logged in to the system. An asterisk (*) next to the session ID denotes the current login session.

The following example lists all local users logged in to the system. The asterisk indicates which session is the current login session.

```
UCSC# scope system
UCSC /system # scope security
UCSC /security # show user-sessions local
Session Id      User            Host                Login Time
--------------- --------------- ------------------- ----------
pts_25_1_31264* steve           192.168.100.111     2012-05-09T14:06:59.000
ttyS0_1_3532    jeff            console             2012-05-02T15:11:08.000
web_25277_A     faye            192.168.100.112     2012-05-15T22:11:25.000
```

The following example displays detailed information on all local users logged in to the system:

```
UCSC# scope system
UCSC /system # scope security
UCSC /security # show user-sessions local detail
Session Id pts_25_1_31264:
    Fabric Id: A
    Term: pts/25
    User: steve
    Host: 64.101.53.93
    Pid: 31264
    Login Time: 2012-05-09T14:06:59.000

Session Id ttyS0_1_3532:
    Fabric Id: A
    Term: ttyS0
    User: jeff
    Host: console
    Pid: 3532
    Login Time: 2012-05-02T15:11:08.000

Session Id web_25277_A:
    Fabric Id: A
    Term: web_25277
    User: faye
    Host: 192.168.100.112
```

```
Pid: 3518
Login Time: 2012-05-15T22:11:25.000
```

Configuring Passwords

Guidelines for Creating Passwords

Each locally authenticated user account requires a password. A user with admin, aaa, or domain-group-management privileges can configure Cisco UCS Central to perform a password strength check on user passwords. If the password strength check is enabled, each user must have a strong password.

Cisco recommends that each user have a strong password. If you enable the password strength check for locally authenticated users, Cisco UCS Central rejects any password that does not meet the following requirements:

- Must contain a minimum of 8 characters and a maximum of 80 characters.
- Must contain at least three of the following:
  - Lower case letters
  - Upper case letters
  - Digits
  - Special characters
- Must not contain a character that is repeated more than 3 times consecutively, such as aaabbb.
- Must not be identical to the username or the reverse of the username.
- Must pass a password dictionary check. For example, the password must not be based on a standard dictionary word.
- Must not contain the following symbols: $ (dollar sign), ? (question mark), and = (equals sign).
- Should not be blank for local user and admin accounts.

Password Profile for Locally Authenticated Users

The password profile contains the password history and password change interval properties for all locally authenticated users of Cisco UCS Central. You cannot specify a different password profile for each locally authenticated user.

Note You must have admin, aaa, or domain-group-management privileges to change the password profile properties. Except for password history, these properties do not apply to users with these administrative privileges.

Password History Count

The password history count allows you to prevent locally authenticated users from reusing the same password over and over again. When this property is configured, Cisco UCS Central stores passwords that were previously used by locally authenticated users up to a maximum of 15 passwords. The passwords are stored in reverse chronological order with the most recent password first to ensure that the only the oldest password can be reused when the history count threshold is reached.

A user must create and use the number of passwords configured in the password history count before being able to reuse one. For example, if you set the password history count to 8, a locally authenticated user cannot reuse the first password until after the ninth password has expired.

By default, the password history is set to 0. This value disables the history count and allows users to reuse previously passwords at any time.

If necessary, you can clear the password history count for a locally authenticated user and enable reuse of previous passwords.

Password Change Interval

The password change interval enables you to restrict the number of password changes a locally authenticated user can make within a given number of hours. The following table describes the two configuration options for the password change interval.

Interval Configuration	Description	Example
No password change allowed	This option does not allow passwords for locally authenticated users to be changed within a specified number of hours after a password change. You can specify a no change interval between 1 and 745 hours. By default, the no change interval is 24 hours.	For example, to prevent passwords from being changed within 48 hours after a locally authenticated user changes his or her password, set the following: • Change during interval to disable • No change interval to 48
Password changes allowed within change interval	This option specifies the maximum number of times that passwords for locally authenticated users can be changed within a pre-defined interval. You can specify a change interval between 1 and 745 hours and a maximum number of password changes between 0 and 10. By default, a locally authenticated user is permitted a maximum of 2 password changes within a 48 hour interval.	For example, to allow to be changed a maximum of once within 24 hours after a locally authenticated user changes his or her password, set the following: • Change during interval to enable • Change count to 1 • Change interval to 24

Configuring the Maximum Number of Password Changes for a Change Interval

You must have admin, aaa, or org/device-profile-management privileges to change the password profile properties. Except for password history, these properties do not apply to users with these administrative privileges.

Procedure

Step 1 UCSC# **connect policy-mgr**
Enters policy manager mode.

Step 2 UCSC(policy-mgr)# **scope org /**
Enters the organization root.

Step 3 UCSC(policy-mgr) /org # **scope device-profile**
Enters device profile mode for the specified organization.

Step 4 UCSC(policy-mgr) /org/device-profile # **scope security**
Enters security mode.

Step 5 UCSC(policy-mgr) /org/device-profile/security # **scope password-profile**
Enters password profile security mode.

Step 6 UCSC(policy-mgr) /org/device-profile/security/password-profile # **set change-during-interval enable**
Restricts the number of password changes a locally authenticated user can make within a given number of hours.

Step 7 UCSC(policy-mgr) /org/device-profile/security/password-profile* # **set change-count** *pass-change-num*
Specifies the maximum number of times a locally authenticated user can change his or her password during the Change Interval.

This value can be anywhere from 0 to 10.

Step 8 UCSC(policy-mgr) /org/device-profile/security/password-profile* # **set change-interval** *num-of-hours*
Specifies the maximum number of hours over which the number of password changes specified in the **Change Count** field are enforced.

This value can be anywhere from 1 to 745 hours.

For example, if this field is set to 48 and the**Change Count** field is set to 2, a locally authenticated user can make no more than 2 password changes within a 48 hour period.

Step 9 UCSC(policy-mgr) /org/device-profile/security/password-profile* # **commit-buffer**
Commits the transaction to the system configuration.

The following example shows how to enable the change during interval option, set the change count to 5, set the change interval to 72 hours, and commit the transaction:

```
UCSC # connect policy-mgr
UCSC(policy-mgr)# scope org /
UCSC(policy-mgr) /org # scope device-profile
UCSC(policy-mgr) /org/device-profile # scope security
UCSC(policy-mgr) /org/device-profile/security # scope password-profile
UCSC(policy-mgr) /org/device-profile/security/password-profile # set change-during-interval
 enable
UCSC(policy-mgr) /org/device-profile/security/password-profile* # set change-count 5
UCSC(policy-mgr) /org/device-profile/security/password-profile* # set change-interval 72
UCSC(policy-mgr) /org/device-profile/security/password-profile* # commit-buffer
UCSC(policy-mgr) /org/device-profile/security/password-profile #
```

Configuring a No Change Interval for Passwords

You must have admin, aaa, or org/device-profile-management privileges to change the password profile properties. Except for password history, these properties do not apply to users with these administrative privileges.

Procedure

Step 1 UCSC# **connect policy-mgr**
Enters policy manager mode.

Step 2 UCSC(policy-mgr)# **scope org /**
Enters the organization root.

Step 3 UCSC(policy-mgr) /org # **scope device-profile**
Enters device profile mode for the specified organization.

Step 4 UCSC(policy-mgr) /org/device-profile # **scope security**
Enters security mode.

Step 5 UCSC(policy-mgr) /org/device-profile/security # **scope password-profile**
Enters password profile security mode.

Step 6 UCSC(policy-mgr) /org/device-profile/security/password-profile # **set change-during-interval disable**
Disables the change during interval feature.

Step 7 UCSC(policy-mgr) /org/device-profile/security/password-profile* # **set no-change-interval** *min-num-hours*
Specifies the minimum number of hours that a locally authenticated user must wait before changing a newly created password..

This value can be anywhere from 1 to 745 hours.

This interval is ignored if the **Change During Interval** property is not set to **Disable**.

Step 8 UCSC(policy-mgr) /org/device-profile/security/password-profile # **commit-buffer**
Commits the transaction to the system configuration.

The following example shows how to disable the change during interval option, set the no change interval to 72 hours, and commit the transaction:

```
UCSC # connect policy-mgr
UCSC(policy-mgr)# scope org /
UCSC(policy-mgr) /org # scope device-profile
UCSC(policy-mgr) /org/device-profile # scope security
UCSC(policy-mgr) /org/device-profile/security # scope password-profile
UCSC(policy-mgr) /org/device-profile/security/password-profile # set change-during-interval
 disable
UCSC(policy-mgr) /org/device-profile/security/password-profile* # set no-change-interval
72
UCSC(policy-mgr) /org/device-profile/security/password-profile* # commit-buffer
UCSC(policy-mgr) /org/device-profile/security/password-profile #
```

Configuring the Password History Count

You must have admin or aaa privileges to change the password profile properties.

Procedure

Step 1 UCSC# **connect policy-mgr**
Enters policy manager mode.

Step 2 UCSC(policy-mgr)# **scope org /**
Enters the organization root.

Step 3 UCSC(policy-mgr) /org # **scope device-profile**
Enters device profile mode for the specified organization.

Step 4 UCSC(policy-mgr) /org/device-profile # **scope security**
Enters security mode.

Step 5 UCSC(policy-mgr) /org/device-profile/security # **scope password-profile**
Enters password profile security mode.

Step 6 UCSC(policy-mgr) /org/device-profile/security/password-profile # **set history-count** *num-of-passwords*
Specifies the number of unique passwords that a locally authenticated user must create before that user can reuse a previously used password

This value can be anywhere from 0 to 15.

By default, the **History Count** field is set to 0, which disables the history count and allows users to reuse previously used passwords at any time.

Step 7 UCSC(policy-mgr) /org/device-profile/security/password-profile* # **commit-buffer**
Commits the transaction to the system configuration.

The following example configures the password history count and commits the transaction:

```
UCSC # connect policy-mgr
UCSC(policy-mgr)# scope org /
UCSC(policy-mgr) /org # scope device-profile
UCSC(policy-mgr) /org/device-profile # scope security
UCSC(policy-mgr) /org/device-profile/security # scope password-profile
UCSC(policy-mgr) /org/device-profile/security/password-profile # set history-count 5
UCSC(policy-mgr) /org/device-profile/security/password-profile* # commit-buffer
UCSC(policy-mgr) /org/device-profile/security/password-profile #
```

Configuring User Roles

Role-Based Access Control

Role-Based Access Control (RBAC) is a method of restricting or authorizing system access for users based on user roles and locales. A role defines the privileges of a user in the system and the locale defines the

organizations (domains) that a user is allowed access. Because users are not directly assigned privileges, management of individual user privileges is simply a matter of assigning the appropriate roles and locales.

A user is granted write access to desired system resources only if the assigned role grants the access privileges and the assigned locale allows access. For example, a user with the Server Administrator role in the Engineering organization could update server configurations in the Engineering organization but could not update server configurations in the Finance organization unless the locales assigned to the user include the Finance organization.

User Roles

User roles contain one or more privileges that define the operations that are allowed for a user. One or more roles can be assigned to each user. Users with multiple roles have the combined privileges of all assigned roles. For example, if Role1 has storage-related privileges, and Role2 has server-related privileges, users with Role1 and Role2 have both storage-related and server-related privileges.

A Cisco UCS domain can contain up to 48 user roles, including the default user roles. Each domain group in Cisco UCS Central can contain 48 user roles, including the user roles that are inherited from the parent domain group. When user roles are pushed to Cisco UCS Manager from Cisco UCS Central, only the first 48 roles will be active. Any user roles after the first 48 will be inactive with faults raised.

All roles include read access to all configuration settings in the Cisco UCS domain. Users with read-only roles cannot modify the system state.

Roles can be created, modified to add new or remove existing privileges, or deleted. When a role is modified, the new privileges are applied to all users that have that role. Privilege assignment is not restricted to the privileges defined for the default roles. That is, you can use a custom set of privileges to create a unique role. For example, the default Server Administrator and Storage Administrator roles have a different set of privileges, but a new Server and Storage Administrator role can be created that combines the privileges of both roles.

If a role is deleted after it has been assigned to users, it is also deleted from those user accounts.

User profiles on AAA servers (RADIUS or TACACS+) should be modified to add the roles corresponding to the privileges granted to that user. The attribute is used to store the role information. The AAA servers return this attribute with the request and parse it to get the roles. LDAP servers return the roles in the user profile attributes.

Default User Roles

The system contains the following default user roles:

AAA Administrator

Read-and-write access to users, roles, and AAA configuration. Read access to the rest of the system.

Administrator

Complete read-and-write access to the entire system. The default admin account is assigned this role by default and it cannot be changed.

Facility Manager

Read-and-write access to power management operations through the power-mgmt privilege. Read access to the rest of the system.

Network Administrator

Read-and-write access to fabric interconnect infrastructure and network security operations. Read access to the rest of the system.

Operations

Read-and-write access to systems logs, including the syslog servers, and faults. Read access to the rest of the system.

Read-Only

Read-only access to system configuration with no privileges to modify the system state.

Server Compute

Read and write access to most aspects of service profiles. However the user cannot create, modify or delete vNICs or vHBAs.

Server Equipment Administrator

Read-and-write access to physical server related operations. Read access to the rest of the system.

Server Profile Administrator

Read-and-write access to logical server related operations. Read access to the rest of the system.

Server Security Administrator

Read-and-write access to server security related operations. Read access to the rest of the system.

Storage Administrator

Read-and-write access to storage operations. Read access to the rest of the system.

Reserved Words: User Roles

The following words cannot be used when creating custom roles in Cisco UCS.

- network-admin
- network-operator
- vdc-admin
- vdc-operator
- server-admin

Privileges

Privileges give users assigned to user roles access to specific system resources and permission to perform specific tasks. The following table lists each privilege and the user role given that privilege by default.

Table 1: User Privileges

Privilege	Description	Default Role Assignment
aaa	System security and AAA	AAA Administrator
admin	System administration	Administrator
domain-group-management	Domain Group Management	Domain Group Administrator
ext-lan-config	External LAN configuration	Network Administrator
ext-lan-policy	External LAN policy	Network Administrator
ext-lan-qos	External LAN QoS	Network Administrator
ext-lan-security	External LAN security	Network Administrator
ext-san-config	External SAN configuration	Storage Administrator
ext-san-policy	External SAN policy	Storage Administrator
ext-san-qos	External SAN QoS	Storage Administrator
ext-san-security	External SAN security	Storage Administrator
fault	Alarms and alarm policies	Operations
operations	Logs and Smart Call Home	Operations
org-management	Organization management	Operations
pod-config	Pod configuration	Network Administrator
pod-policy	Pod policy	Network Administrator
pod-qos	Pod QoS	Network Administrator
pod-security	Pod security	Network Administrator
power-mgmt	Read-and-write access to power management operations	Facility Manager
read-only	Read-only access Read-only cannot be selected as a privilege; it is assigned to every user role.	Read-Only
server-equipment	Server hardware management	Server Equipment Administrator

Privilege	Description	Default Role Assignment
server-maintenance	Server maintenance	Server Equipment Administrator
server-policy	Server policy	Server Equipment Administrator
server-security	Server security	Server Security Administrator
service-profile-compute	Service profile compute	Server Compute Administrator
service-profile-config	Service profile configuration	Server Profile Administrator
service-profile-config-policy	Service profile configuration policy	Server Profile Administrator
service-profile-ext-access	Service profile end point access	Server Profile Administrator
service-profile-network	Service profile network	Network Administrator
service-profile-network-policy	Service profile network policy	Network Administrator
service-profile-qos	Service profile QoS	Network Administrator
service-profile-qos-policy	Service profile QoS policy	Network Administrator
service-profile-security	Service profile security	Server Security Administrator
service-profile-security-policy	Service profile security policy	Server Security Administrator
service-profile-server	Service profile server management	Server Profile Administrator
service-profile-server-oper	Service profile consumer	Server Profile Administrator
service-profile-server-policy	Service profile pool policy	Server Security Administrator
service-profile-storage	Service profile storage	Storage Administrator
service-profile-storage-policy	Service profile storage policy	Storage Administrator
stats	Statistics Management	Statistics Administrator

Creating a User Role

Procedure

Step 1 UCSC# **connect policy-mgr**
Enters policy manager mode.

Step 2 UCSC(policy-mgr)# **scope org /**
Enters the organization root.

Step 3 UCSC(policy-mgr) /org # **scope device-profile**
Enters device profile mode for the specified organization.

Step 4 UCSC(policy-mgr) /org/device-profile # **scope security**
Enters security mode.

Step 5 UCSC(policy-mgr) /org/device-profile/security # **create role** *name*
Creates the user role and enters security role mode.

Step 6 UCSC(policy-mgr) /org/device-profile/security/role* # **add privilege** *privilege-name*
Adds one or more privileges to the role.

Note You can specify more than one *privilege-name* on the same command line to add multiple privileges to the role, or you can add privileges to the same role using multiple **add** commands.

Step 7 UCSC(policy-mgr) /org/device-profile/security/role* # **commit-buffer**
Commits the transaction to the system configuration.

The following example creates the service-profile-security-admin role, adds the service profile security and service profile security policy privileges to the role, and commits the transaction:

```
UCSC # connect policy-mgr
UCSC(policy-mgr)# scope org /
UCSC(policy-mgr) /org # scope device-profile
UCSC(policy-mgr) /org/device-profile # scope security
UCSC(policy-mgr) /org/device-profile/security # create role ls-security-admin
UCSC(policy-mgr) /org/device-profile/security/role* # add privilege service-profile-security

service-profile-security-policy
UCSC(policy-mgr) /org/device-profile/security/role* # commit-buffer
UCSC(policy-mgr) /org/device-profile/security/role #
```

Deleting a User Role

Procedure

Step 1 UCSC# **connect policy-mgr**
Enters policy manager mode.

Step 2 UCSC(policy-mgr)# **scope org /**
Enters the organization root.

Step 3 UCSC(policy-mgr) /org # **scope device-profile**
Enters device profile mode for the specified organization.

Step 4 UCSC(policy-mgr) /org/device-profile # **scope security**
Enters security mode.

Step 5 UCSC(policy-mgr) /org/device-profile/security # **delete role** *name*
Deletes the user role.

Step 6 UCSC(policy-mgr) /org/device-profile/security/role* # **commit-buffer**
Commits the transaction to the system configuration.

The following example deletes the service-profile-security-admin role and commits the transaction:

```
UCSC # connect policy-mgr
UCSC(policy-mgr)# scope org /
UCSC(policy-mgr) /org # scope device-profile
UCSC(policy-mgr) /org/device-profile # scope security
UCSC(policy-mgr) /org/device-profile/security # delete role service-profile-security-admin
UCSC(policy-mgr) /org/device-profile/security/role* # commit-buffer
UCSC(policy-mgr) /org/device-profile/security/role #
```

Adding Privileges to a User Role

Procedure

Step 1 UCSC# **connect policy-mgr**
Enters policy manager mode.

Step 2 UCSC(policy-mgr)# **scope org /**
Enters the organization root.

Step 3 UCSC(policy-mgr) /org # **scope device-profile**
Enters device profile mode for the specified organization.

Step 4 UCSC(policy-mgr) /org/device-profile # **scope security**
Enters security mode.

Step 5 UCSC(policy-mgr) /org/device-profile/security # **scope role** *name*
Enters security role mode for the specified role.

Step 6 UCSC(policy-mgr) /org/device-profile/security/role # **add privilege** *privilege-name*
Adds one or more privileges to the existing privileges of the user role.

Note You can specify more than one *privilege-name* on the same command line to add multiple privileges to the role, or you can add privileges to the same role using multiple **add privilege** commands.

Step 7 UCSC(policy-mgr) /org/device-profile/security/role* # **commit-buffer**
Commits the transaction to the system configuration.

The following example shows how to add the server security and server policy privileges to the service-profile-security-admin role and commit the transaction:

```
UCSC # connect policy-mgr
UCSC(policy-mgr)# scope org /
UCSC(policy-mgr) /org # scope device-profile
UCSC(policy-mgr) /org/device-profile # scope security
UCSC(policy-mgr) /org/device-profile/security # scope role
UCSC(policy-mgr) /org/device-profile/security/role # scope role service-profile-security-admin
UCSC(policy-mgr) /org/device-profile/security/role* # add privilege server-security
server-policy
UCSC(policy-mgr) /org/device-profile/security/role* # commit-buffer
UCSC(policy-mgr) /org/device-profile/security/role #
```

Replacing Privileges for a User Role

Procedure

Step 1 UCSC# **connect policy-mgr**
Enters policy manager mode.

Step 2 UCSC(policy-mgr)# **scope org /**
Enters the organization root.

Step 3 UCSC(policy-mgr) /org # **scope device-profile**
Enters device profile mode for the specified organization.

Step 4 UCSC(policy-mgr) /org/device-profile # **scope security**
Enters security mode.

Step 5 UCSC(policy-mgr) /org/device-profile/security # **scope role** *name*
Enters security role mode for the specified role.

Step 6 UCSC(policy-mgr) /org/device-profile/security/role # **set privilege** *privilege-name*
Replaces the existing privileges of the user role.

Note You can specify more than one *privilege-name* on the same command line to replace the existing privilege with multiple privileges. After replacing the privileges, you can add privileges to the same role using the **add privilege** command.

Step 7 UCSC(policy-mgr) /org/device-profile/security/role* # **commit-buffer**
Commits the transaction to the system configuration.

The following example shows how to replace the existing privileges for the service-profile-security-admin role with the server security and server policy privileges and commit the transaction:

```
UCSC # connect policy-mgr
UCSC(policy-mgr)# scope org /
UCSC(policy-mgr) /org # scope device-profile
UCSC(policy-mgr) /org/device-profile # scope security
UCSC(policy-mgr) /org/device-profile/security # scope role
UCSC(policy-mgr) /org/device-profile/security/role # scope role service-profile-security-admin
UCSC(policy-mgr) /org/device-profile/security/role* # set privilege server-security
server-policy
UCSC(policy-mgr) /org/device-profile/security/role* # commit-buffer
UCSC(policy-mgr) /org/device-profile/security/role #
```

Removing Privileges from a User Role

Procedure

Step 1 UCSC# **connect policy-mgr**
Enters policy manager mode.

Step 2 UCSC(policy-mgr)# **scope org /**

Enters the organization root.

Step 3 UCSC(policy-mgr) /org # **scope device-profile**
Enters device profile mode for the specified organization.

Step 4 UCSC(policy-mgr) /org/device-profile # **scope security**
Enters security mode.

Step 5 UCSC(policy-mgr) /org/device-profile/security # **scope role** *name*
Enters security role mode for the specified role.

Step 6 UCSC(policy-mgr) /org/device-profile/security/role # **remove privilege** *privilege-name*
Removes one or more privileges from the existing user role privileges.

Note You can specify more than one *privilege-name* on the same command line to remove multiple privileges from the role, or you can remove privileges from the same role using multiple **remove privilege** commands.

Step 7 UCSC(policy-mgr) /org/device-profile/security/role* # **commit-buffer**
Commits the transaction to the system configuration.

The following example removes the server security and server policy privileges from the service-profile-security-admin role and commits the transaction:

```
UCSC # connect policy-mgr
UCSC(policy-mgr)# scope org /
UCSC(policy-mgr) /org # scope device-profile
UCSC(policy-mgr) /org/device-profile # scope security
UCSC(policy-mgr) /org/device-profile/security # scope role
UCSC(policy-mgr) /org/device-profile/security/role # remove privilege server-security
server-policy
UCSC(policy-mgr) /org/device-profile/security/role* # commit-buffer
UCSC(policy-mgr) /org/device-profile/security/role #
```

Assigning a Role to a User Account

Changes in user roles and privileges do not take effect until the next time the user logs in. If a user is logged in when you assign a new role to or remove an existing role from a user account, the active session continues with the previous roles and privileges.

Procedure

Step 1 UCSC# **connect policy-mgr**
Enters policy manager mode.

Step 2 UCSC(policy-mgr)# **scope org /**
Enters the organization root.

Step 3 UCSC(policy-mgr) /org # **scope device-profile**
Enters device profile mode for the specified organization.

Step 4 UCSC(policy-mgr) /org/device-profile # **scope security**
Enters security mode.

Step 5 UCSC(policy-mgr) /org/device-profile/security # **scope local-user** *local-user-name*
Enters security local user mode for the specified local user account.

Step 6 UCSC(policy-mgr) /org/device-profile/security/local-user # **create role** *role-name*
Assigns the specified role to the user account .

Note The **create role** command can be entered multiple times to assign more than one role to a user account.

Step 7 UCSC(policy-mgr) /org/device-profile/security/local-user* # **commit-buffer**
Commits the transaction.

The following example assigns the operations role to the kikipopo local user account and commits the transaction:

```
UCSC # connect policy-mgr
UCSC(policy-mgr)# scope org /
UCSC(policy-mgr) /org # scope device-profile
UCSC(policy-mgr) /org/device-profile # scope security
UCSC(policy-mgr) /org/device-profile/security # scope local-user kikipopo
UCSC(policy-mgr) /org/device-profile/security/local-user # create role operations
UCSC(policy-mgr) /org/device-profile/security/local-user* # commit-buffer
UCSC(policy-mgr) /org/device-profile/security/local-user #
```

Removing a Role from a User Account

Changes in user roles and privileges do not take effect until the next time the user logs in. If a user is logged in when you assign a new role to or remove an existing role from a user account, the active session continues with the previous roles and privileges.

Procedure

Step 1 UCSC# **connect policy-mgr**
Enters policy manager mode.

Step 2 UCSC(policy-mgr)# **scope org /**
Enters the organization root.

Step 3 UCSC(policy-mgr) /org # **scope device-profile**
Enters device profile mode for the specified organization.

Step 4 UCSC(policy-mgr) /org/device-profile # **scope security**
Enters security mode.

Step 5 UCSC(policy-mgr) /org/device-profile/security # **scope local-user** *local-user-name*
Enters security local user mode for the specified local user account.

Step 6 UCSC(policy-mgr) /org/device-profile/security/local-user # **delete role** *role-name*
Removes the specified role from the user account .

Note The **delete role** command can be entered multiple times to remove more than one role from a user account.

Step 7 UCSC(policy-mgr) /org/device-profile/security/local-user* # **commit-buffer**

Commits the transaction.

The following example removes the operations role from the kikipopo local user account and commits the transaction:

```
CSC # connect policy-mgr
UCSC(policy-mgr)# scope org /
UCSC(policy-mgr) /org # scope device-profile
UCSC(policy-mgr) /org/device-profile # scope security
UCSC(policy-mgr) /org/device-profile/security # scope local-user kikipopo
UCSC(policy-mgr) /org/device-profile/security/local-user # delete role operations
UCSC(policy-mgr) /org/device-profile/security/local-user* # commit-buffer
UCSC(policy-mgr) /org/device-profile/security/local-user #
```

Configuring User Locales

User Locales

A user can be assigned one or more locales. Each locale defines one or more organizations (domains) the user is allowed access, and access would be limited to the organizations specified in the locale. One exception to this rule is a locale without any organizations, which gives unrestricted access to system resources in all organizations.

A Cisco UCS domain can contain up to 48 user locales. Each domain group in Cisco UCS Central can contain 48 user locales, including the user locales that are inherited from the parent domain group. When user locales are pushed to Cisco UCS Manager from Cisco UCS Central, only the first 48 locales will be active. Any user locales after the first 48 will be inactive with faults raised.

Users with admin, aaa, or domain-group-management privileges can assign organizations to the locale of other users.

Note You cannot assign a locale to users with the admin privilege.

You can hierarchically manage organizations. A user that is assigned at a top level organization has automatic access to all organizations under it. For example, an Engineering organization can contain a Software Engineering organization and a Hardware Engineering organization. A locale containing only the Software Engineering organization has access to system resources only within that organization; however, a locale that contains the Engineering organization has access to the resources for both the Software Engineering and Hardware Engineering organizations.

Creating a User Locale

Procedure

Step 1 UCSC# **connect policy-mgr**
Enters policy manager mode.

Step 2 UCSC(policy-mgr)# **scope org /**
Enters the organization root.

Step 3 UCSC(policy-mgr) /org # **scope device-profile**
Enters device profile mode for the specified organization.

Step 4 UCSC(policy-mgr) /org/device-profile # **scope security**
Enters security mode.

Step 5 UCSC(policy-mgr) /org/device-profile/security # **create locale** *name*
Creates the user role and enters security role mode.

Step 6 UCSC(policy-mgr) /org/device-profile/security/locale * # **create org-ref** *org-ref-name* **orgdn** *orgdn-name*
References (binds) an organization to the locale. The *org-ref-name* argument is the name used to identify the organization reference, and the *orgdn-name* argument is the distinguished name of the organization being referenced.

Step 7 UCSC(policy-mgr) /org/device-profile/security/locale * # **commit-buffer**
Commits the transaction to the system configuration.

The following example shows how to create the finance organization for the western locale and commit the transaction:

```
UCSC # connect policy-mgr
UCSC(policy-mgr)# scope org /
UCSC(policy-mgr) /org # scope device-profile
UCSC(policy-mgr) /org/device-profile # scope security
UCSC(policy-mgr) /org/device-profile/security # create locale western
UCSC(policy-mgr) /org/device-profile/security/locale* # create org-ref finance-ref orgdn
finance
UCSC(policy-mgr) /org/device-profile/security/locale* # commit-buffer
UCSC(policy-mgr) /org/device-profile/security/locale #
```

Deleting a User Locale

Procedure

Step 1 UCSC# **connect policy-mgr**
Enters policy manager mode.

Step 2 UCSC(policy-mgr)# **scope org /**
Enters the organization root.

Step 3 UCSC(policy-mgr) /org # **scope device-profile**
Enters device profile mode for the specified organization.

Step 4 UCSC(policy-mgr) /org/device-profile # **scope security**
Enters security mode.

Step 5 UCSC(policy-mgr) /org/device-profile/security # **delete locale** *locale-name*
Deletes the locale.

Step 6 UCSC(policy-mgr) /org/device-profile/security # **commit-buffer**

Commits the transaction to the system configuration.

The following example deletes the western locale and commits the transaction:

```
UCSC # connect policy-mgr
UCSC(policy-mgr)# scope org /
UCSC(policy-mgr) /org # scope device-profile
UCSC(policy-mgr) /org/device-profile # scope security
UCSC(policy-mgr) /org/device-profile/security # delete locale western
UCSC(policy-mgr) /org/device-profile/security* # commit-buffer
UCSC(policy-mgr) /org/device-profile/security #
```

Assigning a Locale to a User Account

Note Do not assign locales to users with an admin role.

Procedure

Step 1 UCSC# **connect policy-mgr**
Enters policy manager mode.

Step 2 UCSC(policy-mgr)# **scope org /**
Enters the organization root.

Step 3 UCSC(policy-mgr) /org # **scope device-profile**
Enters device profile mode for the specified organization.

Step 4 UCSC(policy-mgr) /org/device-profile # **scope security**
Enters security mode.

Step 5 UCSC /security # **scope local-user** *local-user-name*
Enters security local user mode for the specified local user account.

Step 6 UCSC(policy-mgr) /org/device-profile/security/local-user # **create locale** *locale-name*
Assigns the specified locale to the user account.

Note The **create locale** command can be entered multiple times to assign more than one locale to a user account.

Step 7 UCSC(policy-mgr) /org/device-profile/security/local-user # **commit-buffer**
Commits the transaction.

The following example shows how to assign the western locale to the kikipopo local user account and commit the transaction:

```
UCSC # connect policy-mgr
UCSC(policy-mgr)# scope org /
UCSC(policy-mgr) /org # scope device-profile
UCSC(policy-mgr) /org/device-profile # scope security
UCSC(policy-mgr) /org/device-profile/security/local-user # create locale western
UCSC(policy-mgr) /org/device-profile/security/local-user* # commit-buffer
```

```
UCSC(policy-mgr) /org/device-profile/security/local-user #
```

Removing a Locale from a User Account

Procedure

Step 1 UCSC# **connect policy-mgr**
Enters policy manager mode.

Step 2 UCSC(policy-mgr)# **scope org /**
Enters the organization root.

Step 3 UCSC(policy-mgr) /org # **scope device-profile**
Enters device profile mode for the specified organization.

Step 4 UCSC(policy-mgr) /org/device-profile # **scope security**
Enters security mode.

Step 5 UCSC(policy-mgr) /org/device-profile/security # **scope local-user** *local-user-name*
Enters security local user mode for the specified local user account.

Step 6 UCSC(policy-mgr) /org/device-profile/security/local-user # **delete locale** *locale-name*
Removes the specified locale from the user account.

Note The **delete locale** command can be entered multiple times to remove more than one locale from a user account.

Step 7 UCSC(policy-mgr) /org/device-profile/security/local-user* # **commit-buffer**
Commits the transaction.

The following example removes the western locale from the kikipopo local user account and commits the transaction:

```
UCSC # connect policy-mgr
UCSC(policy-mgr)# scope org /
UCSC(policy-mgr) /org # scope device-profile
UCSC(policy-mgr) /org/device-profile # scope security
UCSC(policy-mgr) /org/device-profile/security/local-user # delete locale western
UCSC(policy-mgr) /org/device-profile/security/local-user* # commit-buffer
UCSC(policy-mgr) /org/device-profile/security/local-user #
```

Assigning an Organization to a User Locale

Procedure

Step 1 UCSC# **connect policy-mgr**
Enters policy manager mode.

Step 2 UCSC(policy-mgr)# **scope org /**

Enters the organization root.

Step 3 UCSC(policy-mgr) /org # **scope device-profile**
Enters device profile mode for the specified organization.

Step 4 UCSC(policy-mgr) /org/device-profile # **scope security**
Enters security mode.

Step 5 UCSC(policy-mgr) /org/device-profile/security # **scope locale** *locale-name*
Enters security locale mode.

Step 6 UCSC(policy-mgr) /org/device-profile/security/locale # **create org-ref** *org-ref-name* **orgdn** *orgdn-name*
References (binds) an organization to the locale. The *org-ref-name* argument is the name used to identify the organization reference, and the *orgdn-name* argument is the distinguished name of the organization being referenced.

Step 7 UCSC(policy-mgr) /org/device-profile/security/locale * # **commit-buffer**
Commits the transaction to the system configuration.

The following example enters the western locale, adds (references) the marketing organization to the locale, names the reference marketing-ref, and commits the transaction:

```
UCSC # connect policy-mgr
UCSC(policy-mgr)# scope org /
UCSC(policy-mgr) /org # scope device-profile
UCSC(policy-mgr) /org/device-profile # scope security
UCSC(policy-mgr) /org/device-profile/security # scope locale western
UCSC(policy-mgr) /org/device-profile/security/locale # create org-ref marketing-ref orgdn
marketing
UCSC(policy-mgr) /org/device-profile/security/locale* # commit-buffer
UCSC(policy-mgr) /org/device-profile/security/locale #
```

Deleting an Organization from a User Locale

Procedure

Step 1 UCSC# **connect policy-mgr**
Enters policy manager mode.

Step 2 UCSC(policy-mgr)# **scope org /**
Enters the organization root.

Step 3 UCSC(policy-mgr) /org # **scope device-profile**
Enters device profile mode for the specified organization.

Step 4 UCSC(policy-mgr) /org/device-profile # **scope security**
Enters security mode.

Step 5 UCSC(policy-mgr) /org/device-profile/security # **scope locale** *locale-name*
Enters security locale mode.

Step 6 UCSC(policy-mgr) /org/device-profile/security/locale # **delete org-ref** *org-ref-name*
Deletes the organization from the locale.

Step 7 UCSC(policy-mgr) /org/device-profile/security/locale # **commit-buffer**
Commits the transaction to the system configuration.

The following example deletes the finance organization from the western locale and commits the transaction:

```
UCSC # connect policy-mgr
UCSC(policy-mgr)# scope org /
UCSC(policy-mgr) /org # scope device-profile
UCSC(policy-mgr) /org/device-profile # scope security
UCSC(policy-mgr) /org/device-profile/security # scope locale western
UCSC(policy-mgr) /org/device-profile/security/locale # delete org-ref finance-ref
UCSC(policy-mgr) /org/device-profile/security/locale* # commit-buffer
UCSC(policy-mgr) /org/device-profile/security/locale #
```

Assigning a Domain Group to a User Locale

Procedure

	Command or Action	Purpose
Step 1	UCSC# **connect policy-mgr**	Enters policy manager mode.
Step 2	UCSC(policy-mgr) #**scope org**	Enters organization mode for the specified organization.
Step 3	UCSC(policy-mgr) /org #**scope device-profile**	Enters device profile mode for the specified organization.
Step 4	UCSC(policy-mgr) /org/device-profile #**scope security**	Enters security mode.
Step 5	UCSC(policy-mgr) /domain-group/security # **scope locale** *locale-name*	Enters security locale mode.
Step 6	UCSC(policy-mgr) /domain-group/security/locale # **create domain-group-ref** *domain-group-ref-name* **domain-group-dn** *domaingroup-root-name*	References (binds) a domain group to the locale. The *domain-group-ref-name* argument (1-16 characters) is the name used to identify the domain group reference, and the *domain-group-dn-name* argument is the distinguished name of the domain group root being referenced.
Step 7	UCSC(policy-mgr) /domain-group/security/locale # **commit-buffer**	Commits the transaction to the system configuration.

The following example enters the western locale, adds (references) the marketing domain group to the locale, names the reference marketdomain01-ref, and commits the transaction:

```
UCSC # connect policy-mgr
UCSC(policy-mgr)# scope org
UCSC(policy-mgr) /org # scope device-profile
UCSC(policy-mgr) /domain-group # scope security
UCSC(policy-mgr) /domain-group/security # scope locale western
```

```
UCSC(policy-mgr) /domain-group/security/locale # create domain-group-ref marketdomain01
domain-group-dn marketing
UCSC(policy-mgr) /domain-group/security/locale* # commit-buffer
UCSC(policy-mgr) /domain-group/security/locale #
```

Deleting a Domain Group from a User Locale

Procedure

	Command or Action	Purpose
Step 1	UCSC# **connect policy-mgr**	Enters policy manager mode.
Step 2	UCSC(policy-mgr) #**scope org**	Enters organization mode for the specified organization.
Step 3	UCSC(policy-mgr) /org #**scope device-profile**	Enters device profile mode for the specified organization.
Step 4	UCSC(policy-mgr) /org/device-profile #**scope security**	Enters security mode.
Step 5	UCSC(policy-mgr) /org/device-profile/security # **scope locale** *locale-name*	Enters security locale mode.
Step 6	UCSC(policy-mgr) /org/device-profile/security/locale # **delete org/device-profile-ref** *org/device-profile-ref-name*	Deletes references (unbinds) domain groups referenced to the locale. The *org/device-profile-ref-name* argument (1-16 characters) is the name used to identify the domain group reference.
Step 7	UCSC(policy-mgr) /org/device-profile/security/locale * # **commit-buffer**	Commits the transaction to the system configuration.

The following example enters the western locale, deletes references (unbinds) the marketing domain group references from the locale marketdomain01, and commits the transaction:

```
UCSC # connect policy-mgr
UCSC(policy-mgr)# scope org
UCSC(policy-mgr) /org # scope device-profile
UCSC(policy-mgr) /org/device-profile # scope security
UCSC(policy-mgr) /org/device-profile/security # scope locale western
UCSC(policy-mgr) /org/device-profile/security/locale # delete org/device-profile-ref
marketdomain01
UCSC(policy-mgr) /org/device-profile/security/locale* # commit-buffer
UCSC(policy-mgr) /org/device-profile/security/locale #
```

Configuring User Domain Groups

Creating a User Domain Group

Procedure

	Command or Action	Purpose
Step 1	UCSC# **connect policy-mgr**	Enters policy manager mode.
Step 2	UCSC(policy-mgr) # **scope domain-group** *domain-group*	Enters domain group root mode and (optionally) enters a domain group under the domain group root. To enter the domain group root mode, type / as the *domain-group*.
Step 3	UCSC(policy-mgr) /domain-group # **create domain-group** *name*	Creates the domain group.
Step 4	UCSC(policy-mgr) /domain-group * # **commit-buffer**	Commits the transaction to the system configuration.

The following example creates the central-audit domain group and commits the transaction:

```
UCSC # connect policy-mgr
UCSC(policy-mgr)# scope domain-group
UCSC(policy-mgr) /domain-group # create domain-group central-audit
UCSC(policy-mgr) /domain-group* # commit-buffer
UCSC(policy-mgr) /domain-group #
```

Deleting a User Domain Group

Procedure

	Command or Action	Purpose
Step 1	UCSC# **connect policy-mgr**	Enters policy manager mode.
Step 2	UCSC(policy-mgr) # **scope domain-group** *domain-group*	Enters domain group root mode and (optionally) enters a domain group under the domain group root. To enter the domain group root mode, type / as the *domain-group*.
Step 3	UCSC(policy-mgr) /domain-group # **delete domain-group** *name*	Deletes the domain group.
Step 4	UCSC(policy-mgr) /domain-group * # **commit-buffer**	Commits the transaction to the system configuration.

The following example deletes the central-audit domain group and commits the transaction:

```
UCSC # connect policy-mgr
UCSC(policy-mgr)# scope domain-group
UCSC(policy-mgr) /domain-group # delete domain-group central-audit
UCSC(policy-mgr) /domain-group* # commit-buffer
UCSC(policy-mgr) /domain-group #
```

Configuring User Organizations

User Organizations

A user can create one or more organizations. Each organization defines sub-organizations, faults, events, UUID suffix pools and blocks of UUIDs.

Cisco UCS organizations are hierarchically managed by users. A user that is assigned at the root level organization has automatic access to all organizations and domain groups under it.

Creating a User Organization

Procedure

Step 1 UCSC# **connect policy-mgr**
Enters policy manager mode.

Step 2 UCSC(policy-mgr) # **scope org** *org-name*
Enters organization mode for the specified organization. To enter the root organization mode, type / as the *org-name*.

Step 3 UCSC(policy-mgr) /org # **create org** *name*
Creates the organization.

Step 4 UCSC(policy-mgr) /org * # **commit-buffer**
Commits the transaction to the system configuration.

The following example creates the central-audit organization and commits the transaction:

```
UCSC # connect policy-mgr
UCSC(policy-mgr)# scope org /
UCSC(policy-mgr) /org # create org central-audit
UCSC(policy-mgr) /org* # commit-buffer
UCSC(policy-mgr) /org #
```

Deleting a User Organization

Procedure

	Command or Action	Purpose
Step 1	UCSC# **connect policy-mgr**	Enters policy manager mode.
Step 2	UCSC(policy-mgr) # **scope org** *org-name*	Enters organization mode for the specified organization. To enter the root organization mode, type / as the *org-name*.
Step 3	UCSC(policy-mgr) /org # **delete org** *name*	Deletes the organization.
Step 4	UCSC(policy-mgr) /org * # **commit-buffer**	Commits the transaction to the system configuration.

The following example deletes the central-audit organization and commits the transaction:

```
UCSC # connect policy-mgr
UCSC(policy-mgr)# scope org /
UCSC(policy-mgr) /org # delete org central-audit
UCSC(policy-mgr) /org* # commit-buffer
UCSC(policy-mgr) /org #
```

Creating a User Sub-Organization

Procedure

	Command or Action	Purpose
Step 1	UCSC# **connect policy-mgr**	Enters policy manager mode.
Step 2	UCSC(policy-mgr) # **scope org** *org-name*	Enters organization mode for the specified organization. To enter the root organization mode, type / as the *org-name*.
Step 3	UCSC(policy-mgr) /org # **create org** *name*	Creates the sub-organization under the organization scoped.
Step 4	UCSC(policy-mgr) /org * # **commit-buffer**	Commits the transaction to the system configuration.

The following example enters the central-audit organization, creates the north-audit sub-organization and commits the transaction:

```
UCSC # connect policy-mgr
UCSC(policy-mgr)# scope org central-audit
UCSC(policy-mgr) /org # create org north-audit
```

```
UCSC(policy-mgr) /org* # commit-buffer
UCSC(policy-mgr) /org #
```

Deleting a User Sub-Organization

Procedure

Step 1 UCSC# **connect policy-mgr**
Enters policy manager mode.

Step 2 UCSC(policy-mgr) # **scope org** *org-name*
Enters organization mode for the specified organization. To enter the root organization mode, type **/** as the *org-name*.

Step 3 UCSC(policy-mgr) /org # **delete org** *name*
Deletes the sub-organization under the organization scoped.

Step 4 UCSC(policy-mgr) /org * # **commit-buffer**
Commits the transaction to the system configuration.

The following example enters the central-audit organization, deletes the north-audit sub-organization and commits the transaction:

```
UCSC # connect policy-mgr
UCSC(policy-mgr)# scope org central-audit
UCSC(policy-mgr) /domain-group # delete org north-audit
UCSC(policy-mgr) /domain-group* # commit-buffer
UCSC(policy-mgr) /domain-group #
```