



Password Management

- [Guidelines for Cisco UCS Passwords, on page 1](#)
- [Guidelines for Cisco UCS Usernames, on page 3](#)
- [Configuring the Maximum Number of Password Changes for a Change Interval, on page 4](#)
- [Configuring a No Change Interval for Passwords, on page 5](#)
- [Configuring the Password Expiration, on page 5](#)
- [Configuring the Password History Count, on page 9](#)
- [Password Profile for Locally Authenticated Users, on page 10](#)
- [Clearing the Password History for a Locally Authenticated User, on page 11](#)
- [Password Encryption Key for Backup Configuration Files, on page 12](#)
- [Recovering a Lost Password , on page 13](#)

Guidelines for Cisco UCS Passwords

Each locally authenticated user account requires a password. A user with admin or aaa privileges can configure Cisco UCS Manager to perform a password strength check on user passwords. Listed in [Table 1: ASCII Table of Allowed Characters for UCS Passwords, on page 1](#) are the allowed ASCII characters for UCS passwords.

Table 1: ASCII Table of Allowed Characters for UCS Passwords

ASCII Printable Characters	Description
A-Z	uppercase letters A to Z
a-z	lowercase letters a to z
0-9	digits 0 to 9
!	exclamation mark
"	quotation mark
%	percent sign
&	ampersand
'	apostrophe

ASCII Printable Characters	Description
(left parenthesis
)	right parenthesis
*	asterisk
+	plus sign
,	comma
-	hyphen
.	period
/	slash
:	colon
;	semicolon
<	less-than
>	greater-than
@	at sign
[left square bracket
\	backslash
]	right square bracket
^	caret
_	underscore
`	grave accent
{	left curly brace
	vertical bar
}	right curly brace
~	tilde

Cisco recommends using a strong password; otherwise, the password strength check for locally authenticated users, Cisco UCS Manager rejects any password that does not meet the following requirements:

- Must contain a minimum of eight characters and a maximum of 80 characters.
- If the password strength check is turned on, the minimum password length is variable and can be set from a minimum of 6 to a maximum of 80 characters.



Note The default is 8 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 three 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.

Guidelines for Cisco UCS Usernames

The username is also used as the login ID for Cisco UCS Manager. When you assign login IDs to Cisco UCS 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 Manager.
- 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.

Configuring the Maximum Number of Password Changes for a Change Interval

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

Procedure

	Command or Action	Purpose
Step 1	UCS-A# scope security	Enters security mode.
Step 2	UCS-A /security # scope password-profile	Enters password profile security mode.
Step 3	UCS-A /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 4	UCS-A /security/password-profile # set change-count <i>pass-change-num</i>	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 5	UCS-A /security/password-profile # set change-interval <i>num-of-hours</i>	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 6	UCS-A /security/password-profile # commit-buffer	Commits the transaction to the system configuration.

Example

The following example enables the change during interval option, sets the change count to 5, sets the change interval to 72 hours, and commits the transaction:

```
UCS-A # scope security
UCS-A /security # scope password-profile
UCS-A /security/password-profile # set change-during-interval enable
UCS-A /security/password-profile* # set change-count 5
UCS-A /security/password-profile* # set change-interval 72
UCS-A /security/password-profile* # commit-buffer
UCS-A /security/password-profile #
```

Configuring a No Change Interval for Passwords

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

Procedure

	Command or Action	Purpose
Step 1	UCS-A# scope security	Enters security mode.
Step 2	UCS-A /security # scope password-profile	Enters password profile security mode.
Step 3	UCS-A /security/password-profile # set change-during-interval disable	Disables the change during interval feature.
Step 4	UCS-A /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 set to Disable .
Step 5	UCS-A /security/password-profile # commit-buffer	Commits the transaction to the system configuration.

Example

The following example disables the change during interval option, sets the no change interval to 72 hours, and commits the transaction:

```
UCS-A # scope security
UCS-A /security # scope password-profile
UCS-A /security/password-profile # set change-during-interval disable
UCS-A /security/password-profile* # set no-change-interval 72
UCS-A /security/password-profile* # commit-buffer
UCS-A /security/password-profile #
```

Configuring the Password Expiration

The password expiration feature enables the admin or aaa privileged user to enforce the password reset for all the locally authenticated users at a defined time interval. The password reset interval is calculated based on the last password changed date and the password expiry duration.

The following tables provide different scenarios of password expiration for a new and an existing locally authenticated user.

The following table explains how the password expiry date is calculated when the password expiry option is enabled for the first time. For instance, the password expiry is enabled on 1st Dec, the password expiry duration is set as 9 days, and the password warning notification is 4 days.

User Scenarios	Effective Last Password change date	Notification	Effective Password Expiration date
New user is created on the same day that password expiry is enabled	1 st Dec	5 th Dec	10 th Dec
Existing user's first login happens on the same day that password expiry is enabled	1 st Dec	5 th Dec	10 th Dec
New user is created four days after password expiry is enabled	5 th Dec	10 th Dec	15 th Dec
Existing user's first login happens four days after password expiry is enabled	5 th Dec	10 th Dec	15 th Dec
New user changes the password on 2nd Dec	2 nd Dec	7 th Dec	12 th Dec
Existing user changes the password on 2nd Dec	2 nd Dec	7 th Dec	12 th Dec

The following table explains how the password expiry date is calculated when the password expiry option is disabled. For instance, the password expiry option is disabled on 1st Dec.

User Scenarios	Effective Last Password change date	Notification	Effective Password Expiration date
New user is created on the same day that password expiry is disabled	1 st Dec	NA	NA
Existing user logs in on the same day that password expiry is disabled	1st Dec	NA	NA
New user is created four days after password expiry is disabled	5 th Dec	NA	NA
Existing user's first login happens four days after password expiry is disabled	5 th Dec	NA	NA

User Scenarios	Effective Last Password change date	Notification	Effective Password Expiration date
New user changes the password on 2nd Dec	2 nd Dec	NA	NA
Existing user changes the password on 2nd Dec	2 nd Dec	NA	NA

The following table explains how the password expiry date is calculated when the password expiry option is re-enabled. For instance, the password expiry option is re-enabled on 10th Dec, the password expiry duration is set as 9 days, and the password warning notification is 4 days.

User Scenarios	Effective Last Password change date	Notification	Effective Password Expiration date	Password Status
New user is created on the same day that password expiry is re-enabled	10 th Dec	15 th Dec	20 th Dec	Active
Existing user logs in on the same day that password expiry is re-enabled	1 st Dec	5 th Dec	10 th Dec	Expired
New user is created four days after password expiry is re-enabled	15 th Dec	20 th Dec	25 th Dec	Active
Existing user logs in for the first time four days after password expiry is re-enabled	15 th Dec	20 th Dec	25 th Dec	Active
Existing user logs in for the second time four days after password expiry is re-enabled	5 th Dec	10 th Dec	15 th Dec	Active

The following table explains how the password expiry date is calculated when the system date is modified by the admin. For instance, the actual system date when the last password was changed is 10th Dec, the password expiry duration is set as 9 days, and the password warning notification is 4 days.

System modified date	Effective Password Expiration date	Password Status
System date modified backward		
8 th Dec 2020	17 th Dec 2020	Active

System modified date	Effective Password Expiration date	Password Status
2 nd Dec 2020	11 th Dec 2020	Warning
Any date prior to 1st Dec 2020 (the date that makes the password expiry duration from actual date as zero)		Expired
System date modified forward		
14 th Dec 2020	19 th Dec 2020	Active
19 th Dec 2020	19 th Dec 2020	Warning
Any date after 19 th Dec 2020		Expired

After the password expiry, the user must reset the password using the **Reset Password** link in the Cisco UCS Manager Login page.

Procedure

	Command or Action	Purpose
Step 1	UCS-A /security # scope security	Enters security mode.
Step 2	UCS-A /security # scope password-profile	Enters password profile security mode.
Step 3	UCS-A /security/password-profile # set enable-passwd-expiry yes	Enables the password expiration feature for the locally authenticated user.
Step 4	UCS-A /security/password-profile # set passwd-expiry-duration 60	Specifies the number of days after which the password expires for the locally authenticated user. This value can be anywhere from 1 to 180. By default, the password is set to expire in 90 days. For example, if this field is set to 60 days. The locally authenticated user's password will expire after 60 days from the last password changed date.
Step 5	UCS-A /security/password-profile # set passwd-expiry-warn-interval 8	Specifies the number of days by when the locally authenticated user must start to receive password expiry notification. This value can be anywhere from 1 to 30 days. By default, the warning is set to 15 days. For example, if this field is set to eight, the locally authenticated user will receive a warning notification eight days before the password expiry.

	Command or Action	Purpose
		Note The Password Expiration Period field value must be always greater than the value in the Password Expiration Warning Time field.
Step 6	UCS-A /security/password-profile # commit-buffer	Commits the transaction to the system configuration.

Example

The following example enables the password expiry option, sets the password expiry duration to 60 days, sets the warning interval to eight days, and commits the transaction:

```
UCS-A # scope security
UCS-A /security # scope password-profile
UCS-A /security/password-profile # set enable-passwd-expiry yes
UCS-A /security/password-profile* # set passwd-expiry-duration 60
UCS-A /security/password-profile* # set passwd-expiry-warn-interval 8
UCS-A /security/password-profile* # commit-buffer
UCS-A /security/password-profile #
```

Configuring the Password History Count

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

Procedure

	Command or Action	Purpose
Step 1	UCS-A# scope security	Enters security mode.
Step 2	UCS-A /security # scope password-profile	Enters password profile security mode.
Step 3	UCS-A /security/password-profile # set history-count <i>num-of-passwords</i>	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 4	UCS-A /security/password-profile # commit-buffer	Commits the transaction to the system configuration.

Example

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

```
UCS-A # scope security
UCS-A /security # scope password-profile
UCS-A /security/password-profile # set history-count 5
UCS-A /security/password-profile* # commit-buffer
UCS-A /security/password-profile #
```

Password Profile for Locally Authenticated Users

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



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

Password History Count

The password history count prevents locally authenticated users from reusing the same password. When you configure the password history count, Cisco UCS Manager stores up to a maximum of 15 previously used passwords. The password history count stores the passwords in reverse chronological order with the most recent password first. This ensures that the user can only reuse the oldest password when the history count reaches its threshold.

A user can create and use the number of passwords configured in the password history count before reusing a password. For example, if you set the password history count to 8, a user cannot reuse the first password until the ninth password expires.

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

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 restricts the number of password changes that a locally authenticated user can make within a specific number of hours. The following table describes the two interval configuration options for the password change interval.

Interval Configuration	Description	Example
No password change allowed	Does not allow changing passwords for locally authenticated user 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.	To prevent the user from changing passwords within 48 hours after a password change: <ul style="list-style-type: none"> • Set Change during interval to disable • Set No change interval to 48
Password changes allowed within change interval	Specifies the maximum number of times that a locally authenticated user password change can occur 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 two password changes within a 48-hour interval.	To allow a password change for a maximum of one time within 24 hours after a password change: <ul style="list-style-type: none"> • Set Change during interval to enable • Set Change count to 1 • Set Change interval to 24

Clearing the Password History for a Locally Authenticated User

Procedure

	Command or Action	Purpose
Step 1	UCS-A# scope security	Enters security mode.
Step 2	UCS-A /security # scope local-user <i>user-name</i>	Enters local user security mode for the specified user account.
Step 3	UCS-A /security/local-user # set clear password-history yes	Clears the password history for the specified user account.
Step 4	UCS-A /security/local-user # commit-buffer	Commits the transaction to the system configuration.

Example

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

```
UCS-A # scope security
UCS-A /security # scope local-user admin
UCS-A /security/local-user # set clear password-history yes
UCS-A /security/local-user* # commit-buffer
UCS-A /security/local-user #
```

Password Encryption Key for Backup Configuration Files

Password Encryption Key for Backup Configuration Files

Beginning with release 4.2(3d), Cisco UCS Manager introduces **Password Encryption Key** to enhance security for backup configuration files.

You must set **Password Encryption Key** in order to create backup configuration files and also to import the backup files. Cisco UCS Manager release 4.2(3d) and later do not allow you to create backup configuration files or import backup configuration files without setting the **Password Encryption Key**. If the **Password Encryption Key** is not set, following error is displayed while creating a backup configuration file:

```
Backup/Export operation requires Password Encryption Key to be set, please refer to Cisco UCS Manager Administration Guide to set the Password Encryption key.
```

You cannot import a backup configuration file created from Cisco UCS Manager release 4.2(3d) and later into an earlier release. But, you can import a backup configuration file created from an earlier release to Cisco UCS Manager release 4.2(3d) and later with or without a **Password Encryption Key**.

Creating Password Encryption Key

Procedure

	Command or Action	Purpose
Step 1	UCS-A# scope security	Enters security mode.
Step 2	UCS-A /security # set password-encryption-key	Displays a user prompt to enter the password encryption key: Enter the password encryption key:
Step 3	Enter the password encryption key: <i>password-encryption-key</i>	You may not see the characters while entering the Password Encryption Key . Once you set the Password Encryption Key , you can only edit the key but cannot delete it.
Step 4	Confirm the password encryption key:	Retype the Password Encryption Key to confirm.
Step 5	UCS-A /security # commit-buffer	Saves the changes to the system.

Example

The following example shows how to create a password encryption key:

```
UCS-A# scope security
UCS-A /security # set password-encryption-key
Enter the password encryption key: password_encryption_key
```

```
Confirm the password encryption key:password_encryption_key
UCS-A /security/locale* # commit-buffer
```

Recovering a Lost Password

Password Recovery for the Admin Account

The admin account is the system administrator or superuser account. If an administrator loses the password to this account, you can have a serious security issue. The procedure to recover the password for the admin account requires you to power cycle all fabric interconnects and will lead to a temporary data transmission outage.

When you recover the password for the admin account, you actually change the password for that account. You cannot retrieve the original password for that account.

You can reset the password for all other local accounts through Cisco UCS Manager. However, you must log in to Cisco UCS Manager with an account that includes aaa or admin privileges.



Caution For Cisco UCS Mini, this procedure requires you to pull all the fabric interconnects in a Cisco UCS domain out of their chassis slots. As a result, all data transmission in the Cisco UCS domain is stopped until you slide the fabric interconnects back into their chassis slots.

For other Cisco UCS configurations, this procedure requires you to power down all fabric interconnects. As a result, all data transmission in the Cisco UCS domain is stopped until you restart the fabric interconnects.



Note Cisco UCS 6400 Series Fabric Interconnect Cisco UCS 6500 Series Fabric Interconnect does not have separate kernel and system images. It has a single unified image.

Determining the Leadership Role of a Fabric Interconnect



Note To determine the role of the fabric interconnects in a cluster when the admin password is lost, open the Cisco UCS Manager GUI from the IP addresses of both fabric interconnects. The subordinate fabric interconnect fails with the following message:

```
UCSM GUI is not available on secondary node.
```

Procedure

	Command or Action	Purpose
Step 1	UCS-A# show cluster state	Displays the operational state and leadership role for both fabric interconnects in a cluster.

Example

The following example displays the leadership role for both fabric interconnects in a cluster, where fabric interconnect A has the primary role and fabric interconnect B has the subordinate role:

```
UCS-A# show cluster state
Cluster Id: 0x4432f72a371511de-0xb97c000de1b1ada4

A: UP, PRIMARY
B: UP, SUBORDINATE

HA READY
```

Recovering the Admin Account Password in a Non-Cluster Configuration in 6300 FI Series

This procedure will help you to recover the password that you set for the admin account when you performed an initial system setup on the fabric interconnect. The admin account is the system administrator or superuser account.

Before you begin

1. Physically connect the console port on the fabric interconnect to a computer terminal or console server
2. Determine the running versions of the following firmware:
 - The firmware kernel version on the fabric interconnect
 - The firmware system version



Tip To find this information, you can log in with any user account on the Cisco UCS domain.

Procedure

-
- Step 1** Connect to the console port.
- Step 2** Power cycle the fabric interconnect:
- a) For Cisco UCS Mini, pull the fabric interconnect out of its chassis slot. For all other configurations, turn off the power to the fabric interconnect.
 - b) For Cisco UCS Mini, slide the fabric interconnect back into its chassis slot. For all other configurations, turn on the power to the fabric interconnect.
- Step 3** In the console, press one of the following key combinations as it boots to get the `loader` prompt:
- **Ctrl+l**
 - **Ctrl+Shift+r**

You may need to press the selected key combination multiple times before your screen displays the loader prompt.

Step 4 Boot the kernel firmware version on the fabric interconnect.

```
loader >  
boot /installables/switch/  
kernel_firmware_version
```

Example:

```
loader > boot /installables/switch/ucs-6100-k9-kickstart.4.1.3.N2.1.0.11.gbin
```

```
loader > boot /installables/switch/ucs-mini-k9-kickstart.5.0.3.N2.3.01a.bin
```

Step 5 Enter config terminal mode.

```
Fabric(boot) #  
config terminal
```

Step 6 Reset the admin password.

```
Fabric(boot) (config) #  
admin-password  
password
```

Choose a strong password that includes at least one capital letter and one number. The password cannot be blank.

The new password displays in clear text mode.

Step 7 Exit config terminal mode and return to the boot prompt.

Step 8 Boot the system firmware version on the fabric interconnect.

```
Fabric(boot) #  
load /installables/switch/  
system_firmware_version
```

Example:

```
Fabric(boot) # load  
/installables/switch/ucs-6100-k9-system.4.1.3.N2.1.0.211.bin
```

```
Fabric(boot) # load /installables/switch/ucs-mini-k9-system.5.0.3.N2.3.01a.bin
```

Step 9 After the system image loads, log in to Cisco UCS Manager.

Step 10 Sync the new password with Cisco UCS Manager.

```
UCS-B # scope security  
UCS-B/security # set password  
Enter new password: New_password
```

```
Confirm new password: New_password
UCS-B/security* # commit-buffer
```

Recovering the Admin Account Password in a Non-Cluster Configuration for Cisco UCS 6400 Series Fabric Interconnect and Cisco UCS 6500 Series Fabric Interconnect

This procedure will help you to recover the password that you set for the admin account when you performed an initial system setup on the fabric interconnect. The admin account is the system administrator or superuser account.

Before you begin

1. Physically connect the console port on the fabric interconnect to a computer terminal or console server.
2. Determine the running versions of the Cisco UCS 6400 Series Fabric Interconnect or Cisco UCS 6500 Series Fabric Interconnect image.



Note Cisco UCS 6400 Series Fabric Interconnect or Cisco UCS 6500 Series Fabric Interconnect does not have separate kernel and system images. It has a single unified image.



Tip To find this information, you can log in with any user account on the Cisco UCS domain.

Procedure

- Step 1** Connect to the console port.
- Step 2** UCS-A(local-mgmt)# **reboot**
- This reboots the fabric interconnect.
- You can also power cycle the fabric interconnect.
- Step 3** In the console, press **Ctrl+c** key combinations as it boots to get the loader prompt:
- Ctrl+c**
- You may need to press the selected key combination multiple times before your screen displays the loader prompt.
- Step 4** At the loader prompt, run the following command:
- ```
loader > cmdline recoverymode=1
```
- Step 5** Boot the Cisco UCS 6400 Series Fabric Interconnect or Cisco UCS 6500 Series Fabric Interconnect image on the fabric interconnect.



```
loader > boot /installables/switch/Cisco UCS 6400 FI Image
```

**Example:**

```
loader > boot /installables/switch/ucs-6400-k9-system.7.0.3.N2.3.40.173.gbin
```

**Step 6** Enter the config terminal mode.

```
switch(boot) # config terminal
```

**Step 7** Reset the admin password.

```
switch(boot) (config) # admin-password New_password
```

Choose a strong password that includes at least one capital letter and one number. The password cannot be blank.

The new password displays in clear text mode.

**Step 8** Exit the config terminal mode to reboot the FI.

```
switch(boot) (config) # exit
switch(boot) # exit
```

**Step 9** Wait for the login prompt and use the new password to login.

```
Cisco UCS 6400 Series Fabric Interconnect
login: admin
Password:New_password
```

**Step 10** Sync the new password with Cisco UCS Manager.

```
UCS-A # scope security
UCS-A/security # set password
Enter new password: New_password
Confirm new password: New_password
UCS-A/security* # commit-buffer
```

---

## Recovering the Admin Account Password in a Cluster Configuration for 6300 FI Series

This procedure will help you to recover the password that you set for the admin account when you performed an initial system setup on the fabric interconnects. The admin account is the system administrator or superuser account.

**Before you begin**

1. Physically connect a console port on one of the fabric interconnects to a computer terminal or console server
2. Obtain the following information:
  - The firmware kernel version on the fabric interconnect
  - The firmware system version
  - Which fabric interconnect has the primary leadership role and which is the subordinate



**Tip** To find this information, you can log in with any user account on the Cisco UCS domain.

## Procedure

**Step 1** Connect to the console port of the subordinate fabric interconnect.

**Step 2** For the subordinate fabric interconnect:

- a) For Cisco UCS Mini, pull the fabric interconnect out of its chassis slot. For all other configurations, turn off the power to the fabric interconnect.
- b) For Cisco UCS Mini, slide the fabric interconnect back into its chassis slot. For all other configurations, turn on the power to the fabric interconnect.
- c) In the console, press one of the following key combinations as it boots to get the `loader` prompt:

- **Ctrl+l**
- **Ctrl+Shift+r**

You may need to press the selected key combination multiple times before your screen displays the `loader` prompt.

**Step 3** Power cycle the primary fabric interconnect:

- a) For Cisco UCS Mini, pull the fabric interconnect out of its chassis slot. For all other configurations, turn off the power to the fabric interconnect.
- b) For Cisco UCS Mini, slide the fabric interconnect back into its chassis slot. For all other configurations, turn on the power to the fabric interconnect.

**Step 4** In the console, press one of the following key combinations as it boots to get the `loader` prompt:

- **Ctrl+l**
- **Ctrl+Shift+r**

You may need to press the selected key combination multiple times before your screen displays the `loader` prompt.

**Step 5** Boot the kernel firmware version on the primary fabric interconnect.

```
loader > boot /installables/switch/
kernel_firmware_version
```

**Example:**

```
loader > boot /installables/switch/ucs-6100-k9-kickstart.4.1.3.N2.1.0.11.gbin
```

```
loader > boot /installables/switch/ucs-mini-k9-kickstart.5.0.3.N2.3.01a.bin
```

**Step 6** Enter config terminal mode.

```
Fabric (boot) # config terminal
```

**Step 7** Reset the admin password.

```
Fabric(boot) (config) # admin-password password
```

Choose a strong password that includes at least one capital letter and one number. The password cannot be blank.

The new password displays in clear text mode.

**Step 8** Exit config terminal mode and return to the boot prompt.

**Step 9** Boot the system firmware version on the primary fabric interconnect.

```
Fabric(boot) # load /installables/switch/
system_firmware_version
```

**Example:**

```
Fabric(boot) # load
/installables/switch/ucs-6100-k9-system.4.1.3.N2.1.0.211.bin
```

```
Fabric(boot) # load /installables/switch/ucs-mini-k9-system.5.0.3.N2.3.01a.bin
```

**Step 10** After the system image loads, log in to Cisco UCS Manager.

**Step 11** In the console for the subordinate fabric interconnect, do the following to bring it up:

a) Boot the kernel firmware version on the subordinate fabric interconnect.

```
loader > boot /installables/switch/
kernel_firmware_version
```

b) Boot the system firmware version on the subordinate fabric interconnect.

```
Fabric(boot) # load /installables/switch/
system_firmware_version
```

**Step 12** Sync the new password with Cisco UCS Manager and other FI.

```
UCS-B # scope security
UCS-B/security # set password
Enter new password: New_password
Confirm new password: New_password
UCS-B/security* # commit-buffer
```

## Recovering the Admin Account Password in a Cluster Configuration for Cisco UCS 6400 Series Fabric Interconnect and Cisco UCS 6500 Series Fabric Interconnect

This procedure will help you to recover the password that you set for the admin account when you performed an initial system setup on the fabric interconnects. The admin account is the system administrator or superuser account.

### Before you begin

1. Physically connect a console port on one of the fabric interconnects to a computer terminal or console server

2. Obtain the following information:

- The Cisco UCS 6400 Series Fabric Interconnect or Cisco UCS 6500 Series Fabric Interconnect image




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**Note** Cisco UCS 6400 Series Fabric Interconnect or Cisco UCS 6500 Series Fabric Interconnect does not have separate kernel and system images. It has a single unified image.

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- Which fabric interconnect has the primary leadership role and which is the subordinate




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**Tip** To find this information, you can log in with any user account on the Cisco UCS domain.

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### Procedure

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**Step 1** Connect to the console port of the subordinate fabric interconnect.

**Step 2** UCS-B(local-mgmt)# **reboot**

This reboots the subordinate fabric interconnect.

You can also power cycle the subordinate fabric interconnect.

**Step 3** In the console, press **Ctrl+c** key combinations as it boots to get the loader prompt:

**Ctrl+c**

You may need to press the selected key combination multiple times before your screen displays the loader prompt.

**Step 4** At the loader prompt, run the following command:

```
loader > cmdline recoverymode=1
```

**Step 5** Boot the Cisco UCS 6400 Series Fabric Interconnect or Cisco UCS 6500 Series Fabric Interconnect image on the fabric interconnect.

```
loader > boot /installables/switch/Cisco UCS 6400 Series FI Image
```

**Example:**

```
loader > boot /installables/switch/ucs-6400-k9-system.7.0.3.N2.3.40.173.gbin
```

**Step 6** Enter the config terminal mode.

```
switch(boot)# config terminal
```

**Step 7** Reset the admin password.

```
switch(boot)(config)# admin-password New_password
```

Choose a strong password that includes at least one capital letter and one number. The password cannot be blank.

The new password displays in clear text mode.

**Step 8** Exit the config terminal mode to reboot the FI.

```
switch(boot) (config) # exit
switch(boot) # exit
```

**Step 9** Wait for the login prompt and use the new password to login.

```
Cisco UCS 6400 Series Fabric Interconnect
login: admin
Password: New_password
```

**Step 10** Sync the new password with Cisco UCS Manager and other FI.

```
UCS-B # scope security
UCS-B/security # set password
Enter new password: New_password
Confirm new password: New_password
UCS-B/security* # commit-buffer
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