

UCS Director Upgrade from Mac

This guide covers the process for a successful upgrade of UCS Director from a Mac OS. Official documentation for upgrades can be found here:

<http://www.cisco.com/c/en/us/support/servers-unified-computing/ucs-director/products-installation-guides-list.html>

This guide does not cover the upgrade of the Bare Metal Appliance, (BMA). If the BMA is present it will also need to be upgraded and patched. Refer to the BMA upgrade guide here:

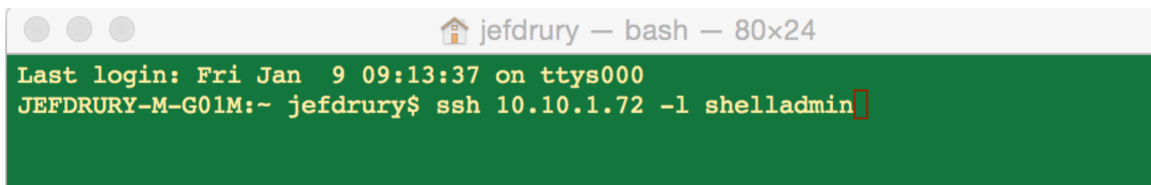
[http://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-director/bma-install-config/5-2/b_ucsd_bma_install_config_guide_5_2_chapter_0100.html](http://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-director/bma-install-config/5-2/b_ucsd_bma_install_config_guide_5_2/b_ucsd_bma_install_config_guide_5_2_chapter_0100.html)

Backup the existing config

The easiest way to backup UCS Director is to utilize a VMware snapshot.

First stop the services and databases on the UCSD appliance through the cli interface. SSH to the UCSD appliance using the “shelladmin” username.

```
ssh <appliance ip address> -l shelladmin
```

A terminal window screenshot with a dark green background. The title bar shows 'jefdrury - bash - 80x24'. The terminal output shows 'Last login: Fri Jan 9 09:13:37 on ttys000' followed by the prompt 'JEFDRURY-M-G01M:~ jefdrury\$' and the command 'ssh 10.10.1.72 -l shelladmin' being entered. A red cursor is visible at the end of the command.

```
jefdrury - bash - 80x24
Last login: Fri Jan 9 09:13:37 on ttys000
JEFDRURY-M-G01M:~ jefdrury$ ssh 10.10.1.72 -l shelladmin
```

The default password for shelladmin is “changeme”

Once logged into the shelladmin interface you will see the following screen:

```
jefdrury — ssh — 82x33

Select a number from the menu below

1) Change ShellAdmin Password
2) Display Services Status
3) Stop Services
4) Start Services
5) Stop Database
6) Start Database
7) Backup Database
8) Restore Database
9) Time Sync
10) Ping Hostname/IP Address
11) Show Version
12) Import CA Cert (JKS) File
13) Import CA Cert(PEM) File for VNC
14) Configure Network Interface
15) Display Network Details
16) Enable Database for Cisco UCS Director Baremetal Agent
17) Add Cisco UCS Director Baremetal Agent Hostname/IP
18) Tail Inframgr Logs
19) Apply Patch
20) Shutdown Appliance
21) Reboot Appliance
22) Manage Root Access
23) Login as Root
24) Configure Multi Node Setup (Advanced Deployment)
25) Clean-up Patch Files
26) Collect logs from a Node
27) Collect Diagnostics
28) Quit

SELECT> █
```

Choose 2, to display service status.

```
SELECT> 2

Service                Status                PID
-----                -
broker                 RUNNING              6137
controller              RUNNING              6244
eventmgr                RUNNING              6291
client                  RUNNING              6337
idaccessmgr             RUNNING              6435
inframgr                RUNNING              6484
TOMCAT                  RUNNING              6558
websock                 RUNNING              6585

14417 ?                 00:00:00 mysqld_safe
14833 ?                 00:08:49 mysqld
Press return to continue ... █
```

Stop the services by selecting **option 3**, and then stop the database by selecting **option 5**. Verify that the services are stopped by using **option 2**.

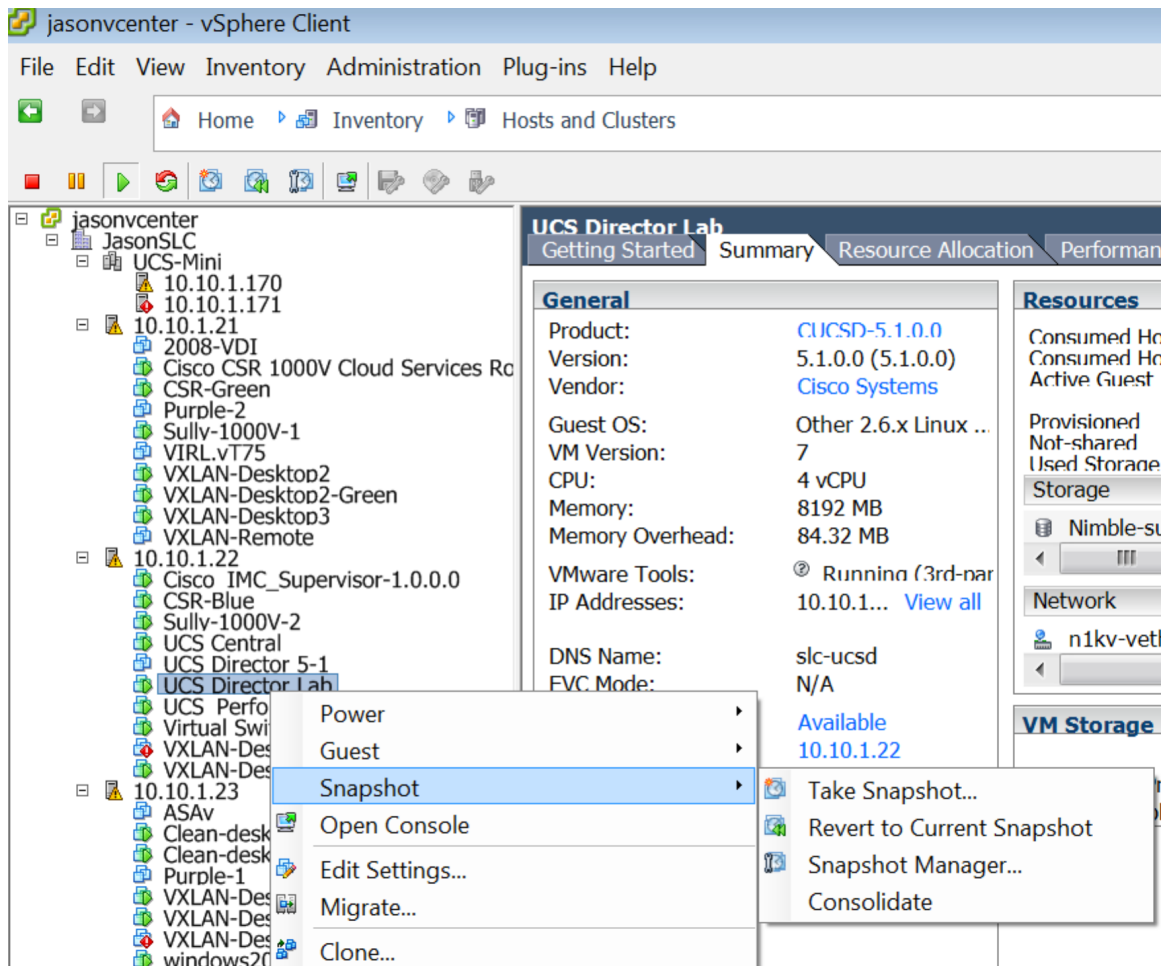
```
SELECT> 2

Service                Status                PID
-----                -
broker                 NOT-RUNNING          -
controller             NOT-RUNNING          -
eventmgr               NOT-RUNNING          -
client                 NOT-RUNNING          -
idaccessmgr           NOT-RUNNING          -
inframgr               NOT-RUNNING          -
TOMCAT                 NOT-RUNNING          -
websocket              NOT-RUNNING          -

14417 ?                00:00:00 mysqld_safe
14833 ?                00:08:49 mysqld
Press return to continue ...
```

Once the services and databases are stopped it is time to take a snapshot of the VM from the vCenter Client.

To do this, right click the VM, select 'Snapshot', 'Take Snapshot'.



Upgrade the Appliance

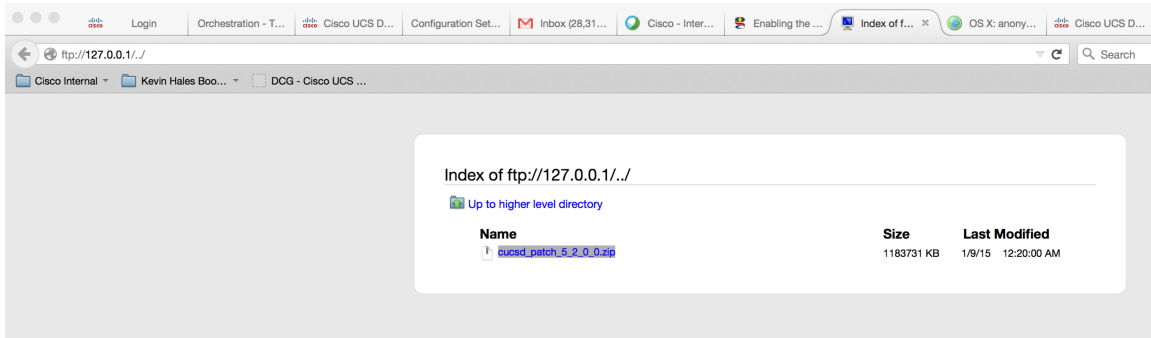
Once the snapshot has been taken it is time to upgrade the appliance. To do this you need to transfer the file to the appliance via FTP. In my lab I use my Mac as a FTP server.

First enable FTP services on your MAC with the following command:

```
mymac$ sudo -s launchctl load -w
/System/Library/LaunchDaemons/ftp.plist
```

Once the FTP service is started, copy the upgrade file to the **/var/empty** folder.

Your Mac should now be ready to act as an FTP server. Test the connection by opening <ftp://127.0.0.1> in a browser and verify that the patch file is present.



If not there already, log back into the shelladmin console of UCS Director.

Select **option 19** to begin the upgrade process. When prompted select **No** for the database backup, and enter the FTP address of your computer, followed by the patch name.

```
jefdrury — ssh — 82x33
6) Start Database
7) Backup Database
8) Restore Database
9) Time Sync
10) Ping Hostname/IP Address
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12) Import CA Cert (JKS) File
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18) Tail Inframgr Logs
19) Apply Patch
20) Shutdown Appliance
21) Reboot Appliance
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23) Login as Root
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25) Clean-up Patch Files
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27) Collect Diagnostics
28) Quit

SELECT> 19
Applying Patch...
Services need to be stopped before upgrade. Do you want to stop the services [y/n]
? y
Stopping services.....
Do you want to take database backup before applying patch[y/n]? n
User selected option not to take backup, proceeding with applying patch
Applying Patch:
Patch URL :ftp://10.72.1.47/cucsd_patch_5_2_0_0.zip
```

The installer will go through a process of extracting and installing files. When finished there should be a message showing install complete:

```
*****
Removing redendant Work Flow file....
*****
Deleted Work Flow file VMware_VM_Provisioning_Setup_Wizard.wfdx
*****
Mon Jan 12 10:21:09 MST 2015 : Backup shelladmin file and Replacing new shelladmin file
*****
Copying shelladmin file based on node type
Appliance node type is standalone
/opt/shelladmin-01-12-2015-10-21-09
*****
Mon Jan 12 10:21:09 MST 2015 : Copying work around scripts for recreating MySQL stats tables for fixing l
ogfile size issue
*****
Appliance version is 5.1.0.0, skipping MySQL stat table work around
*****
Mon Jan 12 10:21:09 MST 2015 : Executing RunSchemaInitializer.sh
*****
Mon Jan 12 10:23:59 MST 2015 : Completed schema initialization....
Appliance version is 5.1.0.0, skipping database indexing
*****
Mon Jan 12 10:23:59 MST 2015 : Copying ui.properties file
*****
Directory doesn't exit, continuing with installation process
*****
Mon Jan 12 10:23:59 MST 2015 : Copying SSL File
*****
*****
Mon Jan 12 10:23:59 MST 2015 : Copying VMWare Files & scalability folder
*****
Scalability folder exists, taking backup /opt/scalability-01-12-2015-10-24-00
Diagnostics folder exists, taking backup /opt/diagnostics-01-12-2015-10-24-00
*****
Mon Jan 12 10:24:00 MST 2015 : Copying localization related files
*****
Japanese Directory exists.
TrueType folder is present
*****
Mon Jan 12 10:24:00 MST 2015 : Copying sysmgr jar to T1 library locations if exist
*****
Restart services and database for the changes to take effect
*****

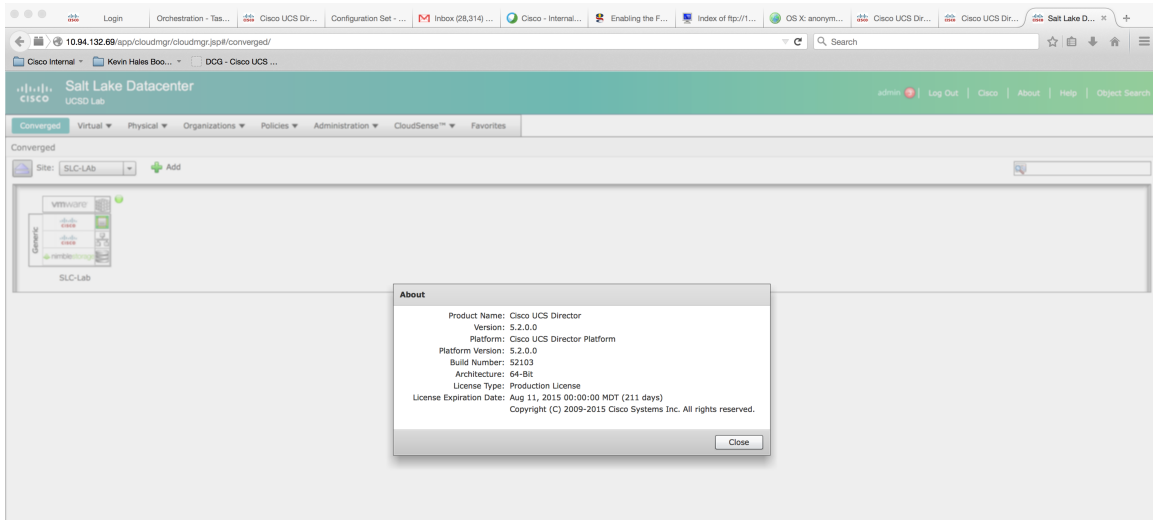
INFO (FileUtil.java:958) *****
INFO (FileUtil.java:963) tar: ./cache/cucsd_patch_5_2_0_0.zip: file changed as we read it
package bash-3.2-33.e15_10.4.x86_64 is already installed

INFO (FileUtil.java:967) 150112 10:24:00 [FileUtil] RunCommandThread: Completed thread:      Thread[Th
read-0,5,main]

Completed installing package 0
*****
Press return to continue ...
```

After the successful installation select **option 6** to start the database, and **option 4** to start the services. Verify that services are running with **option 2**. It may take some time for all of the services to restart, continue checking **option 2** until all services show as running.

Log into the web interface of UCS Director and click the “about” section to verify that the upgrade was applied.



After the Upgrade

Don't forget to stop services that were used during the upgrade process. To stop the FTP service on your mac use the following:

```
mymac$ sudo launchctl unload
/System/Library/LaunchDaemons/ftp.plist
```

Also delete the VMware snapshot that was used for backup. In vCenter right click the VM, select 'snapshot', and 'snapshot manager'. In the dialogue box select the snapshot and delete.

