



Release Notes for Cisco UCS Director Express for Big Data, Release 3.0

First Published: 2016-09-16

Last Modified: 2016-12-21

Cisco UCS Director Express for Big Data

Cisco UCS Director Express for Big Data is a single-touch solution within Cisco UCS Director that automates deployment of Big Data infrastructure. Cisco UCS Director Express for Big Data provides a single management pane across physical infrastructure and across Hadoop and Splunk Enterprise software. It supports key Hadoop distributions, including Cloudera, MapR, and Hortonworks.

Cisco UCS Director Express for Big Data delivers end-to-end automation of Hadoop cluster deployment, allowing you to spin up and expand clusters on-demand. The physical infrastructure configuration is handled automatically, with minimal user input. The configuration includes compute, internal storage, network, and installation of operating system, Java packages, and Hadoop, along with the provisioning of Hadoop services. This is achieved through Cisco UCS service profiles wherein both the physical infrastructure and Hadoop configuration are incorporated into a Hadoop cluster deployment profile.

Cisco UCS Director Express for Big Data also delivers end-to-end automation of Splunk cluster deployment, with minimal user input. This is achieved through Cisco UCS service profiles wherein both the physical infrastructure and Splunk configuration are incorporated into a Splunk cluster deployment profile.

Revision History

Release	Date	Description
3.0(1.0)	December 21, 2016	Updated with information on Release 3.0(1.0)

New and Changed Features in Release 3.0

This section provides an overview of the significant new and changed features in this release. This section does not provide an exhaustive list of all enhancements included in this release.

- Support for Cloudera 5.6.0 and 5.8.0
- Support for MapR 5.1.0 and 5.2.0
- Support for Hortonworks 2.4
- Support for Splunk 6.4

- Supports external NTP server for all new bare metal nodes
- Support for NFS and Drillbit service in MapR cluster.
- Support for Spark service in new nodes in MapR cluster.
- Support for UCSM Version - 3.1(1g).

Documented in the *Cisco UCS Director Express for Big Data management Guide, Release 3.0*

New and Changed Features in Release 3.0(1.0)

This section provides an overview of the significant new and changed features in this release. This section does not provide an exhaustive list of all enhancements included in this release.

- RHEL 7.2 support for Cloudera, MapR, Hortonworks, and Splunk distributions.
- RHEL 7.2 support for Cisco UCS C220 M4 and C240 M4 rack servers, Cisco UCS C220 M3 and C240 M3 rack servers, and Cisco UCS S3260 server
- Support for Multiple server pools for Hadoop distributions
- Support for Hortonworks 2.5
- NFS support for Splunk distribution
- Splunk frozen data archival node support
- Support for UCSM Version - 3.1(2b).

Documented in the *Cisco UCS Director Express for Big Data management Guide, Release 3.0*

System Requirements

The system requirements for this release is available in the *Compatibility Matrix for Cisco UCS Director Express for Big Data Release 3.0* for the following:

- VMware vSphere (ESX or ESXi 5.x, or 6.x)

Supported Browser Versions

Cisco UCS Director Express for Big Data supports the following browsers and all browsers require the Adobe Flash Player plug-in version 11 or higher for those browsers:

- Internet Explorer 8 or higher
- Google Chrome 4.1 or higher
- Firefox 3.5 or higher
- Safari 4.0 or higher (for Apple Mac or Microsoft Windows)

Installation Notes

Cisco UCS Director Express for Big Data is a 64-bit appliance that uses a standard virtual machine that is delivered in OVF format for VMware, and can be hosted on VMware vSphere or vCenter.

For installation instructions, see the following guides:

- *Cisco UCS Director Express for Big Data Installation on VMware vSphere, Release 3.0*
- *Cisco UCS Director Express for Big Data Baremetal Agent Installation and Configuration Guide, Release 3.0*

The installation guides are available on Cisco.com here:

http://www.cisco.com/en/US/products/ps13050/prod_installation_guides_list.html.

Patch Installation Notes for Cisco UCS Director Express for Big Data Release 3.0

You can use the `cucsde_patch_6_0_0_0.zip` patch file to upgrade Cisco UCS Director Express for Big Data, Release 3.0 to the current patch level.

-
- Step 1** Install Cisco UCS Director Express for Big Data, Release 3.0 on Cisco UCS Director, Release 6.0 platform with the support for personality.
- Step 2** Log in to the current version of Cisco UCS Director Express for Big Data VM console.
- Step 3** In the shelladmin, choose **Stop Services** to stop all services.
To verify that all services are stopped, choose **Display Services Status**.
- Step 4** Choose **Apply Patch** to apply the patch application on Cisco UCS Director Express for Big Data.
- Step 5** When prompted, enter the location of the Cisco UCS Director, Release 6.0.0.0 patch (`cucsde_patch_6_0_0_0.zip`). (For example, `ftp://username:password@hostname|IP_address/software_location_and_name`).
- Step 6** Wait for the download and installation to complete for Cisco UCS Director Express for Big Data, Release 3.0.0.0.
- Step 7** When prompted, choose **Start Services** to start services and complete the patch upgrade process.
Note The patch process is not complete or successful until the Cisco UCS Director Express for Big Data services have started, Cisco UCS Director Express for Big Data is available, the log in screen is displayed, and the administration can log in to Cisco UCS Director Express for Big Data.
All Cisco UCS Director Express for Big Data services must be started before you attempt to perform other shelladmin procedures, such as apply additional patches, take a database backup, or restore a database from a backup.
- Step 8** When the patch application is complete, choose **Show Version** in shelladmin to verify the current version of Cisco UCS Director Express for Big Data.
- Step 9** Log in to the Cisco UCS Director Express for Big Data Bare Metal Agent (BMA) server using the default credentials (`root/pxeboot`). Copy the `cucsde_bma_patch_6_0_0_0.zip` (BMA patch) file and extract the BMA patch file. Add execute permissions to `applyPatch.sh` (`chmod+x applyPatch.sh`), and execute the `applyPatch.sh` (`./applyPatch.sh`).
- Step 10** Log in to the Cisco UCS Director Express for Big Data GUI and start the BMA services.
-

Patch Installation Notes for Cisco UCS Director Express for Big Data Release 3.0(1.0)

You can use the `cucsde_patch_6_0_1_0.zip` patch file to upgrade Cisco UCS Director Express for Big Data, Release 3.0(1.0) to the current patch level.

-
- Step 1** Install Cisco UCS Director Express for Big Data, Release 3.0(1.0) on Cisco UCS Director, Release 6.0(1.0) platform with the support for personality.
- Step 2** Log in to the current version of Cisco UCS Director Express for Big Data VM console.
- Step 3** In the shelladmin, choose **Stop Services** to stop all services.
To verify that all services are stopped, choose **Display Services Status**.
- Step 4** Choose **Apply Patch** to apply the patch application on Cisco UCS Director Express for Big Data.
- Step 5** When prompted, enter the location of the Cisco UCS Director, Release 6.0.1.0 patch (`cucsde_patch_6_0_1_0.zip`). (For example, `ftp://username:password@hostname|IP_address/software_location_and_name`).
- Step 6** Wait for the download and installation to complete for Cisco UCS Director Express for Big Data, Release 3.0.1.0.
- Step 7** When prompted, choose **Start Services** to start services and complete the patch upgrade process.
- Note** The patch process is not complete or successful until the Cisco UCS Director Express for Big Data services have started, Cisco UCS Director Express for Big Data is available, the log in screen is displayed, and the administration can log in to Cisco UCS Director Express for Big Data.
- All Cisco UCS Director Express for Big Data services must be started before you attempt to perform other shelladmin procedures, such as apply additional patches, take a database backup, or restore a database from a backup.
- Step 8** When the patch application is complete, choose **Show Version** in shelladmin to verify the current version of Cisco UCS Director Express for Big Data.
- Step 9** Log in to the Cisco UCS Director Express for Big Data Bare Metal Agent (BMA) server using the default credentials (`root/pxeboot`). Copy the `cucsde_bma_patch_6_0_1_0.zip` (BMA patch) file and extract the BMA patch file. Add execute permissions to `applyPatch.sh` (`chmod+x applyPatch.sh`), and execute the `applyPatch.sh` (`./applyPatch.sh`).
- Step 10** Log in to the Cisco UCS Director Express for Big Data GUI and start the BMA services.
-

Open and Resolved Bugs

The open and resolved bugs for this release are accessible through the [Cisco Bug Search Tool](#). This web-based tool provides you with access to the Cisco bug tracking system, which maintains information about bugs and vulnerabilities in this product and other Cisco hardware and software products.



Note You must have a Cisco.com account to log in and access the Cisco Bug Search Tool. If you do not have one, you can [register for an account](#).

For more information about the Cisco Bug Search Tool, see the [Bug Search Tool Help & FAQ](#).

Open and Resolved Bugs in Release 3.0

All open and resolved bugs for this release are available in the [Cisco Bug Search Tool](#) through the following searches.

The results of that search include workarounds for the bugs, if any.

Open Bugs in Release 3.0

You can find detailed information about all open bugs in this release through the [open bug search in this release](#). This search uses the following parameters:

Field	Parameter
Product drop-down list	Choose Series/Model and enter Cisco UCS Director.
Releases drop-down list	Choose Affecting or Fixed in these Releases and enter 6.0(0.0).
Filter	Choose Open from the Status drop-down list.

Resolved Bugs in Release 3.0

You can find detailed information about all resolved bugs in this release through the [resolved bug search in this release](#). This search uses the following parameters:

Field	Parameter
Product drop-down list	Choose Series/Model and enter Cisco UCS Director 6.0.
Releases drop-down list	Choose Affecting or Fixed in these Releases and enter 6.0(0.0).
Filter	Choose Fixed from the Status drop-down list.

Open and Resolved Bugs in Release 3.0(1.0)

All open and resolved bugs for this release are available in the [Cisco Bug Search Tool](#) through the following searches.

Open Bugs in Release 3.0(1.0)

You can find detailed information about all open bugs in this release through the [open bug search in this release](#). This search uses the following parameters:

Field	Parameter
Product drop-down list	Choose Series/Model and enter Cisco UCS Director 6.0.

Field	Parameter
Releases drop-down list	Choose Affecting or Fixed in these Releases and enter 6.0(1.0).
Filter	Choose Open from the Status drop-down list.

Resolved Bugs in Release 3.0(1.0)

You can find detailed information about all resolved bugs in this release through the [resolved bug search in this release](#). This search uses the following parameters:

Field	Parameter
Product drop-down list	Choose Series/Model and enter Cisco UCS Director 6.0.
Releases drop-down list	Choose Affecting or Fixed in these Releases and enter 6.0(1.0).
Filter	Choose Fixed from the Status drop-down list.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see [What's New in Cisco Product Documentation](#).

To receive new and revised Cisco technical content directly to your desktop, you can subscribe to the [What's New in Cisco Product Documentation RSS feed](#). RSS feeds are a free service.

THE SPECIFICATIONS AND INFORMATION REGARDING THE PRODUCTS IN THIS MANUAL ARE SUBJECT TO CHANGE WITHOUT NOTICE. ALL STATEMENTS, INFORMATION, AND RECOMMENDATIONS IN THIS MANUAL ARE BELIEVED TO BE ACCURATE BUT ARE PRESENTED WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. USERS MUST TAKE FULL RESPONSIBILITY FOR THEIR APPLICATION OF ANY PRODUCTS.

THE SOFTWARE LICENSE AND LIMITED WARRANTY FOR THE ACCOMPANYING PRODUCT ARE SET FORTH IN THE INFORMATION PACKET THAT SHIPPED WITH THE PRODUCT AND ARE INCORPORATED HEREIN BY THIS REFERENCE. IF YOU ARE UNABLE TO LOCATE THE SOFTWARE LICENSE OR LIMITED WARRANTY, CONTACT YOUR CISCO REPRESENTATIVE FOR A COPY.

The Cisco implementation of TCP header compression is an adaptation of a program developed by the University of California, Berkeley (UCB) as part of UCB's public domain version of the UNIX operating system. All rights reserved. Copyright © 1981, Regents of the University of California.

NOTWITHSTANDING ANY OTHER WARRANTY HEREIN, ALL DOCUMENT FILES AND SOFTWARE OF THESE SUPPLIERS ARE PROVIDED "AS IS" WITH ALL FAULTS. CISCO AND THE ABOVE-NAMED SUPPLIERS DISCLAIM ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, THOSE OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT OR ARISING FROM A COURSE OF DEALING, USAGE, OR TRADE PRACTICE.

IN NO EVENT SHALL CISCO OR ITS SUPPLIERS BE LIABLE FOR ANY INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES, INCLUDING, WITHOUT LIMITATION, LOST PROFITS OR LOSS OR DAMAGE TO DATA ARISING OUT OF THE USE OR INABILITY TO USE THIS MANUAL, EVEN IF CISCO OR ITS SUPPLIERS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Any Internet Protocol (IP) addresses and phone numbers used in this document are not intended to be actual addresses and phone numbers. Any examples, command display output, network topology diagrams, and other figures included in the document are shown for illustrative purposes only. Any use of actual IP addresses or phone numbers in illustrative content is unintentional and coincidental.

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: <http://www.cisco.com/go/trademarks>. Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1110R)

© 2016 Cisco Systems, Inc. All rights reserved.