



## Migrating From DCNM to ND

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## Prerequisites and guidelines for migrating from DCNM to ND

Upgrading from DCNM 11.5(4) to Nexus Dashboard release 4.2.1 consists of the following workflow:

1. Ensure you complete the prerequisites and guidelines described in this section.
2. Back up your existing DCNM 11.5(4) configuration using a Nexus Dashboard 4.1.1 migration tool.
3. Deploy a Nexus Dashboard 4.1.1 cluster.
4. Restore the configuration backup you created in step 1 onto the Nexus Dashboard 4.1.1 cluster.
5. Upgrade your Nexus Dashboard 4.1.1 cluster to the Nexus Dashboard 4.2.1 release.



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**Note** Before you proceed with the upgrade:

- Validate each fabric's credentials.
    - For LAN fabrics, navigate to the **Web UI > Administration > Credentials Management > LAN Credentials** page, select each fabric, and choose **Validate** to validate credentials.
    - For SAN fabrics, navigate to the **Web UI > Administration > Credentials Management > SAN Credentials** page, select each fabric, and choose **Validate** to validate credentials.
  - If you are running an app on your DCNM, such as the Thousand Eyes integration app, disable that app before proceeding with these migration procedures.
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### Fabric Type Compatibility

By using the appropriate Upgrade Tool, you can restore data that is backed up from DCNM Release 11.5(4) on a newly deployed Nexus Dashboard for the fabric type as mentioned in the following table.



**Note** SAN fabrics are mainly unchanged in Nexus Dashboard release 4.2.1.

Pre-4.1.1 fabrics		4.1.1 and later fabric types
Fabric technologies	Fabric types	
<b>LAN</b>		
VXLAN EVPN	Data Center VXLAN EVPN	Data Center VXLAN EVPN - iBGP
eBGP VXLAN EVPN	BGP fabric	Data Center VXLAN EVPN - eBGP
VXLAN EVPN	Campus VXLAN EVPN	Campus VXLAN EVPN
eBGP Routed	BGP fabric	BGP fabric
Classic LAN	Enhanced Classic LAN	Enhanced Classic LAN
Classic LAN	Classic LAN	Legacy Classic LAN
Custom	External connectivity network	External and inter-fabric connectivity network
Custom	Custom network	External and inter-fabric connectivity network
Custom	Multi-site external network	External and inter-fabric connectivity network
LAN Monitor	LAN Monitor	External and inter-fabric connectivity network
VXLAN EVPN	VXLAN EVPN Multi-Site	VXLAN (fabric group)
Multi-Fabric Domain	Fabric Group	Classic (fabric group)
<b>IPFM</b>		
IPFM	IPFM	IPFM
IPFM	IPFM Classic	IPFM classic
Generic Multicast	IPFM Classic	IPFM classic
Multi-Fabric Domain	Fabric Group	IPFM (fabric group)

### Feature Compatibility Post Upgrade

The following table lists caveats associated with features that are restored from DCNM 11.5(4) backup after upgrading.

Feature in DCNM 11.5(4)	Upgrade Support
Nexus Dashboard Insights configured	Carried over from 11.5(4)
Container Orchestrator (K8s) Visualizer	Carried over from 11.5(4)
VMM Visibility with vCenter	Carried over from 11.5(4)
Nexus Dashboard Orchestrator configured	Not carried over from 11.5(4)
Preview features configured	Not carried over from 11.5(4)
LAN switches in SAN installations	Not carried over from 11.5(4)
IPAM Integration	Not carried over from 11.5(4)
Custom topologies	Not carried over from 11.5(4); must be recreated and saved
DCNM Tracker	Not carried over from 11.5(4)
Fabric Backups	Not carried over from 11.5(4)
Report Definitions and Reports	Not carried over from 11.5(4)
Switch images and Image Management policies	Not carried over from 11.5(4)
SAN CLI templates	Not carried over from 11.5(4)
Switch images/Image Management data	Not carried over from 11.5(4)
Slow drain data	Not carried over from 11.5(4)
Infoblox configuration	Not carried over from 11.5(4)
Endpoint Locator configuration	You must reconfigure Endpoint Locator (EPL) post upgrade. However, historical data is retained up to a maximum size of 500 MB.
Alarm Policy configuration	Not carried over from 11.5(4)
Performance Management data	CPU/Memory/Interface statistics up to 90 days is restored post upgrade. Must be re-enabled on fabrics.
Temperature data	Temperature data is not saved in the backup and as a result is not restored after the migration. You must re-enable temperature data collection after the migration.

## Migrate Existing DCNM Configuration to ND

This section describes how to:

1. Back up your existing DCNM 11.5(4) configuration.

2. Deploy a Nexus Dashboard 4.1.1 cluster.
3. Restore the configuration onto the Nexus Dashboard 4.1.1 cluster.
4. Upgrade the Nexus Dashboard 4.1.1 cluster to Nexus Dashboard release 4.2.1 to finish the migration.

## Procedure

**Step 1** Download the upgrade tool.

- a) Navigate to the Nexus Dashboard download page.

[https://software.cisco.com/download/home/286327743/type/286328258/release/4.1\(1g\)](https://software.cisco.com/download/home/286327743/type/286328258/release/4.1(1g))

- b) In the **Latest Releases** list, verify that you have chosen the Nexus Dashboard 4.1.1 release.  
c) Download the upgrade tool appropriate for your deployment type.

DCNM 11.5(4) deployment type	Upgrade Tool File Name
ISO/OVA	DCNM_To_NDFC_4.1.1_Upgrade_Tool_OVA_ISO.zip
Linux or Windows	DCNM_To_NDFC_4.1.1_Upgrade_Tool_LIN_WIN.zip

- d) Copy the upgrade tool image to your existing DCNM 11.5(4) server using the **sysadmin** account.

**Step 2** Extract the archive and validate the signature for Linux/Windows deployments.

### Note

If you are using the ISO/OVA archive, skip to the next step.

- a) Ensure that you have Python 3 installed.

```
$ python3 --version
Python 3.9.6
```

- b) Extract the downloaded archive.

```
# unzip DCNM_To_NDFC_4.1.1_Upgrade_Tool_LIN_WIN.zip
Archive: DCNM_To_NDFC_4.1.1_Upgrade_Tool_LIN_WIN.zip
extracting: DCNM_To_NDFC_Upgrade_Tool_LIN_WIN.zip
extracting: DCNM_To_NDFC_Upgrade_Tool_LIN_WIN.zip.signature
inflating: ACI_4070389ff0d61fc7fbb8cdfdec0f38f30482c22e.PEM
inflating: cisco_x509_verify_release.py3
```

- c) Validate signature.

Inside the ZIP archive, you will find the upgrade tool as well as the signature file. Use the following commands to validate the upgrade tool:

```
# ./cisco_x509_verify_release.py3 -e ACI_4070389ff0d61fc7fbb8cdfdec0f38f30482c22e.PEM -i
DCNM_To_NDFC_Upgrade_Tool_LIN_WIN.zip -s DCNM_To_NDFC_Upgrade_Tool_LIN_WIN.zip.signature -v dgst
-sha512
```

```
Retrieving CA certificate from https://www.cisco.com/security/pki/certs/crcam2.cer ...
Successfully retrieved and verified crcam2.cer.
Retrieving SubCA certificate from https://www.cisco.com/security/pki/certs/innerspace.cer ...
Successfully retrieved and verified innerspace.cer.
Successfully verified root, subca and end-entity certificate chain.
```

```
Successfully fetched a public key from ACI_4070389ff0d61fc7fbb8cdfdec0f38f30482c22e.PEM.
Successfully verified the signature of DCNM_To_NDFC_Upgrade_Tool_LIN_WIN.zip using
ACI_4070389ff0d61fc7fbb8cdfdec0f38f30482c22e.PEM
```

- d) Once the validation script signature is verified, extract the script itself.

```
# unzip DCNM_To_NDFC_Upgrade_Tool_LIN_WIN.zip
Archive: DCNM_To_NDFC_Upgrade_Tool_LIN_WIN.zip
creating: DCNM_To_NDFC_Upgrade_Tool_LIN_WIN/
inflating: DCNM_To_NDFC_Upgrade_Tool_LIN_WIN/log4j2.properties
inflating: DCNM_To_NDFC_Upgrade_Tool_LIN_WIN/DCNMBackup.sh
inflating: DCNM_To_NDFC_Upgrade_Tool_LIN_WIN/DCNMBackup.bat
creating: DCNM_To_NDFC_Upgrade_Tool_LIN_WIN/jar/
inflating: DCNM_To_NDFC_Upgrade_Tool_LIN_WIN/jar/jarchivelib-0.7.1-jar-with-dependencies.jar
inflating: DCNM_To_NDFC_Upgrade_Tool_LIN_WIN/jar/bcprov-jdk15on-1.68.jar
inflating: DCNM_To_NDFC_Upgrade_Tool_LIN_WIN/jar/not-going-to-be-commons-ssl-0.3.20.jar
inflating: DCNM_To_NDFC_Upgrade_Tool_LIN_WIN/jar/jnm.jar
inflating: DCNM_To_NDFC_Upgrade_Tool_LIN_WIN/jar/slf4j-simple-1.7.21.jar
inflating: DCNM_To_NDFC_Upgrade_Tool_LIN_WIN/jar/log4j.properties
inflating: DCNM_To_NDFC_Upgrade_Tool_LIN_WIN/jar/dcnmbackup.jar
inflating: DCNM_To_NDFC_Upgrade_Tool_LIN_WIN/jar/sequences.info.oracle
inflating: DCNM_To_NDFC_Upgrade_Tool_LIN_WIN/jar/tables.info.postgres
inflating: DCNM_To_NDFC_Upgrade_Tool_LIN_WIN/jar/sequences.info.postgres
inflating: DCNM_To_NDFC_Upgrade_Tool_LIN_WIN/jar/tables.info.oracle
```

### Step 3 Extract the archive and validate the signature for ISO/OVA deployments.

#### Note

If you are using the Linux/Windows archive, skip to the next step.

- a) Extract the downloaded archive.

```
# unzip DCNM_To_NDFC_4.1.1_Upgrade_Tool_OVA_ISO.zip
Archive: DCNM_To_NDFC_4.1.1_Upgrade_Tool_OVA_ISO.zip
inflating: DCNM_To_NDFC_Upgrade_Tool_OVA_ISO_4.1.1
extracting: DCNM_To_NDFC_Upgrade_Tool_OVA_ISO_4.1.1.signature
inflating: cisco_x509_verify_release.py3
inflating: ACI_4070389ff0d61fc7fbb8cdfdec0f38f30482c22e.PEM
```

- b) Validate signature.

Inside the ZIP archive, you will find the upgrade tool as well as the signature file. Use the following commands to validate the upgrade tool:

```
# ./cisco_x509_verify_release.py3 -e ACI_4070389ff0d61fc7fbb8cdfdec0f38f30482c22e.PEM -i
DCNM_To_NDFC_Upgrade_Tool_OVA_ISO_4.1.1 -s DCNM_To_NDFC_Upgrade_Tool_OVA_ISO.signature -v dgst
-sha512
Retrieving CA certificate from https://www.cisco.com/security/pki/certs/crcam2.cer ...
Successfully retrieved and verified crcam2.cer.
Retrieving SubCA certificate from https://www.cisco.com/security/pki/certs/innespace.cer ...
Successfully retrieved and verified innespace.cer.
Successfully verified root, subca and end-entity certificate chain.
Successfully fetched a public key from ACI_4070389ff0d61fc7fbb8cdfdec0f38f30482c22e.PEM.
Successfully verified the signature of DCNM_To_NDFC_Upgrade_Tool_OVA_ISO using
ACI_4070389ff0d61fc7fbb8cdfdec0f38f30482c22e.PEM
```

### Step 4 Back up existing configuration.

- Log in to your DCNM Release 11.5(4) appliance console.
- Create a screen session.

The following command creates a session which allows you to execute additional commands:

```
dcnm# screen
```

Note that the commands continue to run even when the window is not visible or if you get disconnected.

- c) Gain super user (root) access.

```
dcnm# su
Enter password: <root-password>
[root@dcnm]#
```

- d) For OVA and ISO, enable execution permissions for the upgrade tool.

```
[root@dcnm]# chmod +x ./DCNM_To_NDFC_Upgrade_Tool_OVA_ISO_4.1.1
```

- e) Run the upgrade tool you downloaded in the previous step.

- For example, for release 4.1.1 for Windows:

```
C:\DCNM_To_NDFC_Upgrade_Tool_LIN_WIN>DCNMBackup.bat
Enter DCNM root directory [C:\Program Files\Cisco Systems\dcnm]:
Initializing, please wait...
*****
Welcome to DCNM-to-NexusDashboard Upgrade Tool for Linux/Windows.
This tool will analyze this system and determine whether you can move to Nexus Dashboard 4.1.1
or not.
If upgrade to Nexus Dashboard 4.1.1 is possible, this tool will create files to be used for
performing the upgrade.
Thank you!
*****
This tool will backup config data. Exporting Operational data like Performance(PM) might take
some time.
Do you want to export operational data also? [y/N]: y
*****
Sensitive information will be encrypted using an encryption key.
This encryption key will have to be provided when restoring
the backup file generated by this tool.
Please enter the encryption key:
Enter it again for verification:
....
2024-07-25 22:35:34,944 [main] DEBUG
org.apache.http.impl.conn.PoolingHttpClientConnectionManager - Connection [id: 0][route:
{s}->https://127.0.0.1:9200] can be kept alive indefinitely
2024-07-25 22:35:34,944 [main] DEBUG
org.apache.http.impl.conn.DefaultManagedHttpClientConnection - http-outgoing-0: set socket
timeout to 0
2024-07-25 22:35:34,944 [main] DEBUG
org.apache.http.impl.conn.PoolingHttpClientConnectionManager - Connection released: [id:
0][route: {s}->https://127.0.0.1:9200][total kept alive: 1; route allocated: 1 of 20; total
allocated: 1 of 20]
2024-07-25 22:35:34,969 [main] INFO DCNMBackup - Total number of Json data entries in
backup/es/pmdb_sanportratedata_daily.data ==> 145
2024-07-25 22:35:35,036 [main] INFO DCNMBackup - ##### Total time to export Daily data: 7
seconds.
2024-07-25 22:35:35,036 [main] INFO DCNMBackup - ##### Total time to export PM data: 36
seconds.
2024-07-25 22:35:35,169 [main] INFO DCNMBackup - Creating data file...
2024-07-25 22:35:38,083 [main] INFO DCNMBackup - Creating metadata file...
2024-07-25 22:35:38,085 [main] INFO DCNMBackup - Creating final backup archive...
2024-07-25 22:35:38,267 [main] INFO DCNMBackup - Done
```

- For example, for release 4.1.1 for Linux:

```
# ./DCNMBackup.sh
Enter DCNM root directory [/usr/local/cisco/dcm]:
Initializing, please wait...
*****
Welcome to DCNM-to-NexusDashboard Upgrade Tool for Linux/Windows.
```

This tool will analyze this system and determine whether you can move to Nexus Dashboard 4.1.1 or not.  
 If upgrade to Nexus Dashboard 4.1.1 is possible, this tool will create files to be used for performing the upgrade.  
 Thank you!

\*\*\*\*\*

This tool will backup config data. Exporting Operational data like Performance(PM) might take some time.

Do you want to export operational data also? [y/N]: y

\*\*\*\*\*

Sensitive information will be encrypted using an encryption key.

This encryption key will have to be provided when restoring the backup file generated by this tool.

Please enter the encryption key:

Enter it again for verification:

.....

2024-07-26 04:04:46,540 [main] INFO DCNMBBackup - Total number of Json data entries in backup/es/pmdb\_sanportratedata\_daily.data ==> 92

2024-07-26 04:04:46,543 [main] INFO DCNMBBackup - ##### Total time to export Daily data: 3 seconds.

2024-07-26 04:04:46,543 [main] INFO DCNMBBackup - ##### Total time to export PM data: 11 seconds.

2024-07-26 04:04:46,958 [main] INFO DCNMBBackup - Creating data file...

2024-07-26 04:04:47,456 [main] INFO DCNMBBackup - Creating metadata file...

2024-07-26 04:04:47,467 [main] INFO DCNMBBackup - Creating final backup archive...

2024-07-26 04:04:47,478 [main] INFO DCNMBBackup - Done.

- For example, for release 4.1.1 for OVA:

# ./DCNM\_To\_NDFC\_Upgrade\_Tool\_OVA\_ISO\_4.1.1

\*\*\*\*\*

Welcome to DCNM-to-NexusDashboard Upgrade Tool for OVA/ISO.

This tool will analyze this system and determine whether you can move to Nexus Dashboard 4.1.1 or not.

If upgrade to Nexus Dashboard 4.1.1 is possible, this tool will create files to be used for performing the upgrade.

NOTE:

Only backup files created by this tool can be used for upgrading, older backup files created with 'appmgr backup' CAN NOT be used for upgrading to Nexus Dashboard 4.1.1

Thank you!

\*\*\*\*\*

Continue? [y/n]: **y**

Collect operational data (e.g. PM, EPL)? [y/n]: **y**

Does this DCNM 11.5(4) have DCNM Tracker feature enabled on any switch on any fabric? [y/n]: **n**

Sensitive information will be encrypted using an encryption key.

This encryption key will have to be provided when restoring the backup file generated by this tool.

Please enter the encryption key:

Enter it again for verification:

.....

Adding backup header

Collecting DB table data

Collecting DB sequence data

Collecting stored credentials

Collecting Custom Templates

Collecting CC files

```

Collecting L4-7-service data
Collecting CVisualizer data
Collecting EPL data
Collecting PM data - WARNING: this will take a while!
Collecting AFW app info
Decrypting stored credentials
Adjusting DB tables
Creating dcnm backup file
Creating final backup file
Done.
Backup file: backup11_sandcnm_20240726-113054.tar.gz

```

**Step 5** Deploy a new Nexus Dashboard 4.1.1 cluster as described in [Cisco Nexus Dashboard Deployment and Upgrade Guide, Release 4.1.x](#).

Ensure that you complete all guidelines and prerequisites for the Nexus Dashboard platform and the specific form factor listed in the deployment chapters above.

**Note**

- You must provide the required number of Persistent IP addresses in the Nexus Dashboard GUI before proceeding with restoring your DCNM configuration..
- If your existing configuration used smart licensing with direct connectivity to Cisco Smart Software Management (CSSM), you must ensure that your new Nexus Dashboard has the routes required to reach the CSSM website.

Ensure that subnets for IP addresses on `smartreceiver.cisco.com` are added to the route table in the Nexus Dashboard's **Admin > System Settings > General > Routes** page for the Nexus Dashboard management network.

You can `nslookup` on `smartreceiver.cisco.com` to find the most recent subnet, for example:

```

$ nslookup smartreceiver.cisco.com
Server:      24.233.18.143
Address:     24.233.18.143#53

Name:   smartreceiver.cisco.com
Address: 146.112.59.81
Name:   smartreceiver.cisco.com
Address: 2a04:e4c7:fffe::f

```

You can use either and IPv4 address or an IPv6 address, based on your Nexus Dashboard deployment.

In addition, because Nexus Dashboard is considered a new product instance, you must re-establish trust. If you took the backup with an expired Trust Token, you must manually run the Smart Licensing Configuration wizard and enter a valid token after the upgrade.

**Step 6** Restore the configuration backup in the new Nexus Dashboard 4.1.1 cluster.

For more information, see [Backing Up and Restoring Your Nexus Dashboard](#).

- Navigate to the unified backup and restore page in the Admin Console GUI: **Admin > Backup and Restore**. Backups that are already configured are listed in the **Backups** page.
- Click **Restore** in the upper right corner of the main **Backup and Restore** page to access the **Restore** slider page. The **Restore** slide page appears.
- In the **Source** field, determine where the backup is that you want to restore, if applicable.
  - **Upload Configuration Backup Table:** The Backup File area appears, where you can either drag and drop a local backup file to restore or you can navigate to the local area on your system to select a backup file to restore.



• **Remote Location:**

1. In the **Remote Location** field, select an already-configured remote location from the list, if available, or click **Create Remote Location**.

If you click **Create Remote Location**, follow the procedures provided in "Create a remote storage location" in *Backing Up and Restoring Your Nexus Dashboard*, then return here. Even though you should have configured a remote location as part of the remote backup process, you might also have to configure a remote location as part of the restore process if you're in a different cluster from the one where you configured the remote backup. In this case, you would be configuring the remote location again at this point so that the system can find the remote backup that you configured in the other cluster.

2. In the **Remote Path** field, enter the remote path where the remote backup resides.

- d) In the **Encryption Key** field, enter the encryption key that you used when you backed up the file.
- e) In the Validation area, on the row with your backup, click **Validate and Upload**.
- f) When the Progress bar shows 100% for the validation, the **Next** button becomes active. Click **Next**.
- g) (Optional) Check the **Ignore External Service IP Configuration** check box, if necessary.

If the **Ignore External Service IP Configuration** check box is selected, then the external service IP configuration is ignored. This selection allows you to take a backup on a system and restore it on a different system, with different management and/or data subnets.

The following table provides more information on how IP addresses get honored if you leave the **Ignore External Service IP Configuration** box unchecked:

Deployment Type in Release 11.5(4)	In 11.5(4), trap IP address is collected from	LAN Device Management Connectivity	Trap IP address after upgrade	Result
LAN Fabric Media Controller	eth1 (or vip1 for HA systems)	Management	Belongs to Management subnet	Honored  There is no configuration difference. No further action required.
LAN Fabric Media Controller	eth0 (or vip0 for HA systems)	Management	Does not belong to Management subnet	Ignored, another IP from the Management pool will be used as trap IP.  Configuration difference is created. On the <b>Manage &gt; Fabrics</b> , double click on the fabric to view <b>Fabric Overview</b> . From the <b>Actions</b> drop-down list, select <b>Recalculate and Deploy</b> . Click <b>Deploy Config</b> .

Deployment Type in Release 11.5(4)	In 11.5(4), trap IP address is collected from	LAN Device Management Connectivity	Trap IP address after upgrade	Result
LAN Fabric Media Controller	eth0 (or vip0 for HA systems)	Data	Belongs to Data subnet	Honored  There is no configuration difference. No further action required.
LAN Fabric Media Controller	eth0 (or vip0 for HA systems)	Data	Does not belong to Data subnet	Ignored, another IP from the Data pool will be used as trap IP.  Configuration difference is created. On the <b>Manage &gt; Fabrics</b> , double click on the fabric to view <b>Fabric Overview</b> . From the <b>Actions</b> drop-down list, select <b>Recalculate and Deploy</b> . Click <b>Deploy Config</b> .
SAN Management	OVA/ISO – <ul style="list-style-type: none"> <li>• trap.registaddress (if set)</li> <li>• eth0 (if trap.registaddress is not set)</li> </ul> Windows/Linux – <ul style="list-style-type: none"> <li>• trap.registaddress (if set)</li> <li>• Interface based on event-manager algorithm (if trap.registaddress is not set)</li> </ul>	Not applicable	Belongs to Data subnet	Honored  There is no configuration difference. No further action required.
		Not applicable	Does not belong to Data subnet	Ignored, another IP from the Data pool will be used as trap IP.

h) Click **Restore**.

A warning window appears to verify that you want to begin the restore process. Note that you will not be able to access any Nexus Dashboard functionality while the restore process runs, which could take several minutes.

i) Click **Restore** in the warning window to proceed with the restore process.

Another window appears, showing the progress of the restore process. Click the arrow next to the entry in the **Type** column to get more details of the restore process.

j) If the restore process is successful, you will see 100% as the Progress, and the **View History** button becomes active.

Click **View History** to navigate to the **History** area in the **Backup and Restore** window, with the restore process displayed and **Success** shown in the **Status** column.

**Note**

After you have restored a configuration that was backed up using the new ND unified backup and restore feature, the state of the fabrics shown at the ND level might be out of sync with the true state of the fabrics. To bring the fabrics status back in sync, in the **Fabric Overview** page, click **Actions** at the top of the page and select **Recalculate and Deploy**.

**Step 7** Complete the post-restore tasks.

- a) If you have a SAN deployment in ND release 4.1.1:

After restoring the data from backup, all the server-smart licenses are **OutofCompliance**.

You can migrate to Smart Licensing using Policy from the **Admin > Licensing > Smart** page in the UI and establish trust with CCSM using SLP.

- b) If you have a LAN deployment in ND release 4.1.1:

Certain features might not be carried over when you upgrade from DCNM 11.5(4). See [Feature Compatibility Post Upgrade, on page 2](#) for more information.

**Step 8** Upgrade your Nexus Dashboard 4.1.1 cluster to the Nexus Dashboard 4.2.1 release.

Refer to [Upgrading a Nexus Dashboard 4.1.1 Cluster to This Release](#) for those instructions.

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