



Backing Up and Restoring LAN
Operational Mode Setups, Release
12.2.2

Table of Contents

New and Changed Information	1
Backing Up and Restoring LAN Fabrics	2
Guidelines: LAN Fabrics	2
Backing Up a LAN Fabric	2
Setting the Maximum Number of Backups Per Fabric	3
Enabling an Automatic (Scheduled) Fabric Backup	3
Enabling a Manual Fabric Backup	3
Marking a Backup as Golden	4
Restoring a LAN Fabric	4
Restoring Switch Configurations	5
Backing Up and Restoring NDFC Configurations	7
Copyright	8

New and Changed Information

The following table provides an overview of the significant changes up to this current release. The table does not provide an exhaustive list of all changes or of the new features up to this release.

Release Version	Feature	Description
NDFC release 12.2.2	Unified backup and restore	<p>Beginning with NDFC release 12.2.2, a unified backup and restore is now available at the Nexus Dashboard (ND) level, where a backup and restore performed at the ND level backs up not only the configuration information for ND, but also for any services (such as NDI, NDO, or NDFC) running in that ND. See the <i>Unified Backup and Restore for Nexus Dashboard and Services</i> article for more information.</p> <p>With this unified backup and restore feature, the backup and restore functionality for NDFC is essentially provided at the following levels:</p> <ul style="list-style-type: none">• At the lower-level fabric level: For individual LAN and SAN fabrics within NDFC, the backup and restore functionality is still provided within the NDFC GUI, just as it was prior to the NDFC 12.2.2 release.• At the upper-level NDFC level: Beginning with the NDFC 12.2.2 release, you no longer backup and restore at the NDFC level through the NDFC GUI, and you will backup and restore at this level using the unified backup and restore functionality through the ND GUI instead.

Backing Up and Restoring LAN Fabrics

The following sections describe how to back up and restore LAN fabrics.

- [Guidelines: LAN Fabrics](#)
- [Backing Up a LAN Fabric](#)
- [Restoring a LAN Fabric](#)
- [Restoring Switch Configurations](#)

Guidelines: LAN Fabrics

Following are the guidelines on backing up and restoring LAN fabrics:

- Beginning with NDFC release 12.2.2, you will no longer back up or restore the Fabric Group fabric template type through the NDFC GUI; you will use the unified backup and restore function through the ND GUI, introduced in this release. See the *Unified Backup and Restore for Nexus Dashboard and Services* article for more information.

You will continue to back up and restore all other fabric template types other than Fabric Group through the NDFC GUI, as described in this section.

- If you add or remove devices to the fabric, you can't restore a fabric from a current date to an earlier date.
- The backup and restore procedures described in this document apply only for NDFC 12.x systems.
- You cannot take backups of external fabrics in monitor-only mode. You can take a backup of external fabrics in monitor-only mode, but you cannot restore them. You can restore this backup when the external fabric is not in monitor-only mode.
- You can take backups of Multi-Site Domain (MSD) fabrics. When you initiate a backup from the parent in a MSD fabric, the backup process is applicable for the member fabrics as well.

Backing Up a LAN Fabric

You can back up all fabric configurations and intents automatically or manually. You can save configurations in Cisco NDFC, which are the intents. The intent may or may not be pushed out to the switches.

The backup has the information related to intent and fabric configurations in addition to the associated state of the resource manager in terms of used resources on the fabrics. Cisco NDFC backs up only when there is a configuration push.

The following sections describe the necessary steps to back up a fabric:

- [Setting the Maximum Number of Backups Per Fabric](#)
- [Enabling an Automatic \(Scheduled\) Fabric Backup](#)
- [Enabling a Manual Fabric Backup](#)
- [Marking a Backup as Golden](#)

Setting the Maximum Number of Backups Per Fabric

To set the maximum number of backups per fabric, navigate to:

Admin > System Admin > System Settings > Server Settings > LAN-Fabric

Locate the **Maximum Backups per Fabric** field and enter the number of backups that you want to have stored per fabric. The default entry in this field is 2.

When new backups take place, the oldest (non-golden) backup gets removed automatically. Increase the value in this field only after guidance from Cisco TAC.



The backup count also includes golden backups. Cisco NDFC supports a maximum of two golden backups per fabric. See [Marking a Backup as Golden](#) for more information.

Enabling an Automatic (Scheduled) Fabric Backup

Cisco NDFC triggers an automatic backup only if you did not trigger any manual backup after the last configuration push.

To enable an automatic (scheduled) backup for fabric configurations and intents:

1. Navigate to the Fabrics window:

Manage > Fabrics

2. Select a fabric from the list of configured fabrics, then click **Actions > Edit Fabric**.
3. Click the **Configuration Backup** tab, then enter the necessary information in the fields in this tab.

Fields	Descriptions
Hourly Fabric Backup	Check this box to enable an hourly backup only if there is a configuration deployment since the last backup.
Scheduled Fabric Backup	Check this box to schedule an automatic backup at a specified time, entered in the Scheduled Time field.
Scheduled Backup	This field becomes editable if Scheduled Fabric Backup is enabled. Enter the time that you want the automatic backup to occur, in a 24 hour (UTC) format (00:00 to 23:59).

4. Click **Save** when you have completed the configurations in this tab.

Enabling a Manual Fabric Backup

To enable a manual backup for fabric configurations and intents:

1. Navigate to the **Fabrics** window:

Manage > Fabrics

2. Double-click on a configured fabric to bring up the **Overview** window for that fabric.

3. Click **Actions > More > Backup Fabric**.
4. Enter a name (tag) for the manual fabric backup, then click **Create Backup**.

Marking a Backup as Golden

Once you have a fabric backup configured (either a manual or an automatic backup), you can mark that fabric backup as *golden*, indicating that you don't want to delete that backup even after you reach the archiving limit. Golden backups will not be removed automatically to make space for new backups.

Note the following guidelines with golden backups:

- NDFC archives only up to ten golden backups.
- You can't delete golden backups of fabrics. However, you can remove the golden backup designation on a particular backup as described below, which would then allow you to delete that backup, if necessary.

You can mark a backup as a golden backup while restoring the fabric. To mark a specific backup as golden:

1. Navigate to the **Fabrics** window:

Manage > Fabrics

2. Double-click on a configured fabric to bring up the **Overview** window for that fabric.
3. Click **Actions > More > Restore Fabric**.
4. Select the backup that you want to mark as golden, then click **Actions > Mark as golden**.

If you want to remove a golden mark on a particular backup, select that backup in this window and click **Actions > Remove as golden**.

Restoring a LAN Fabric

To restore a LAN fabric that was backed up (either an automatic backup or a manual backup):

1. Navigate to the **Fabrics** window:

Manage > Fabrics

2. Double-click on a configured fabric to bring up the **Overview** window for that fabric.
3. Click **Actions > More > Restore Fabric**.
4. Review the backups shown on this page.

The following table describes the columns that appear on the **Restore Backup** tab.

Fields	Descriptions
Backup Date	Specifies the backup date.
Backup Version	Specifies the version of backup.

Fields	Descriptions
Backup Tag	Specifies the backup name.
NDFC Version	Specifies the version of NDFC.
Backup Type	Specifies the backup type (for example, a golden backup).

The following table describes the fields that appear on the **Action** tab.

Actions	Descriptions
Mark as golden	To mark an existing backup as a golden backup, choose Mark as golden . Click Confirm in the confirmation window.
Remove as golden	To remove an existing backup from a golden backup, choose Remove as golden . Click Confirm in the confirmation window.

- In the **Select a Backup** step, click the radio button for the fabric backup that you want to restore, then click **Next**.
- In the **Restore Preview** step, verify that the information is correct for the backup that you want to restore.

You can preview the details about the configuration in the backup file. You can also view the name and serial numbers for the switches in the Fabric backup. Click on **Delta Config** to view the configuration difference on the switches in the fabric.

- Click **Restore Intent**.
- In the **Restore Status** step, you can view the status of restoring the intent.
- Click **Next** to view the preview configuration.
- In the **Configuration Preview** step, you can resync the configurations on specific switches.

For the desired switch, check the **Switch Name** check box, and click **ReSync**.

- Click deploy to complete the **Restore Fabric** operation.

Restoring Switch Configurations

NDFC supports restoring configurations for individual switches from certain fabric backups. This is supported in the following LAN fabric types:

- Custom Network
- Classic LAN
- Multi-Site External Network
- External Connectivity Network

To restore configurations for individual switches in one of these fabric types:

- Navigate to the **Fabrics** window:

Manage > Fabrics

2. Double-click on a configured fabric from the list above to bring up the **Overview** window for that fabric.
3. Click the **Switches** tab, then select the appropriate switch and click **Actions > More > Restore Switch**.
4. Select the backup that you want to restore from and click **Next**.
5. Click **Get Config** to view the backed up configuration and the current running configuration, and to perform a side-by-side comparison.
6. Click **Restore Intent** to restore the configuration for the switch.

Backing Up and Restoring NDFC Configurations

Beginning with NDFC release 12.2.2, a unified backup and restore is now available at the Nexus Dashboard (ND) level, where a backup and restore performed at the ND level backs up not only the configuration information for ND, but also for any services (such as NDI, NDO, or NDFC) running in that ND. With this unified backup and restore feature, the backup and restore functionality at the upper NDFC level is no longer provided through the NDFC GUI, and is no longer documented in this document; you will backup and restore at the NDFC level using the unified backup and restore functionality through the ND GUI instead. See the *Unified Backup and Restore for Nexus Dashboard and Services* article for more information.

Copyright

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 NONINFRINGEMENT 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.

The documentation set for this product strives to use bias-free language. For the purposes of this documentation set, bias-free is defined as language that does not imply discrimination based on age, disability, gender, racial identity, ethnic identity, sexual orientation, socioeconomic status, and intersectionality. Exceptions may be present in the documentation due to language that is hardcoded in the user interfaces of the product software, language used based on RFP documentation, or language that is used by a referenced third-party product.

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)

© 2017–2024 Cisco Systems, Inc. All rights reserved.