



Understanding LAN Fabrics, Release 12.1.3

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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 12.1.3	Reorganized content	Content within this document was originally provided in the <i>Cisco NDFC-Fabric Controller Configuration Guide</i> or the <i>Cisco NDFC-SAN Controller Configuration Guide</i> . Beginning with release 12.1.3, this content is now provided solely in this document and is no longer provided in those documents.

LAN Fabrics

The following terms are referred to in this document:

- Greenfield Deployments: Applicable for provisioning new VXLAN EVPN fabrics and eBGP-based routed fabrics.
- Brownfield Deployments: Applicable for existing VXLAN EVPN fabrics:
 - Migrate CLI-configured VXLAN EVPN fabrics to Nexus Dashboard Fabric Controller using the Data Center VXLAN EVPN fabric template.
 - NFM migration to Cisco Nexus Dashboard Fabric Controller using the Data Center VXLAN EVPN fabric template.

Note that in this document the terms *switch* and *device* are used interchangeably.

For information about upgrades, refer to the *Cisco Installation and Upgrade Guide for LAN Controller Deployment*.

The following table describes the fields that appear on **LAN > Fabrics**.

Field	Description
Fabric Name	Displays the name of the fabric.
Fabric Technology	Displays the fabric technology based on the fabric template.
Fabric Type	Displays the type of the fabric-Switch Fabric, LAN Monitor, or External
ASN	Displays the ASN for the fabric.
Fabric Health	Displays the health of the fabric.

The following table describes the action items in the Actions menu drop-down list, that appear on **LAN > Fabrics**.

Action Item	Description
Create Fabric	From the Actions drop-down list, select Create Fabric . For more instructions, see Create a Fabric .
Edit Fabric	Select a fabric to edit. From the Actions drop-down list, select Edit Fabric . Make the necessary changes and click Save . Click Close to discard the changes.
Delete Fabric	Select a fabric to delete. From the drop-down list, select Delete Fabric . Click Confirm to delete the fabric.

Fabric Summary

Click on a fabric to open the side kick panel. The following sections display the summary of the fabric:

- **Health** - Shows the health of the Fabric.
- **Alarms** - Displays the alarms based on the categories.
- **Fabric Info** - Provides basic about the Fabric.
- **Inventory** - Provides information about Switch Configuration and Switch Health.

Click the **Launch** icon to the right top corner to view the Fabric Overview.

Understanding Fabric Templates

Fabric Templates

The following table provides information about the available fabric templates:

Type of Fabric	Description	REST API Template Name	Detailed Procedures
Data Center VXLAN EVPN	Fabric for a VXLAN EVPN deployment with Nexus 9000 and 3000 switches.	Easy_Fabric	Data Center VXLAN EVPN
Enhanced Classic LAN	Fabric for a fully automated 3-tier Classic LAN deployment with Nexus 9000 and 7000 switches.	Easy_Fabric_Classic	Enhanced Classic LAN
Campus VXLAN EVPN	Fabric for a VXLAN EVPN Campus deployment with Catalyst 9000 switches.	Easy_Fabric_IOS_XE	Campus VXLAN EVPN
BGP Fabric	Fabric for an eBGP based deployment with Nexus 9000 and 3000 switches. Optionally VXLAN EVPN can be enabled on top of the eBGP underlay.	Easy_Fabric_eBGP	BGP Fabric
Flexible Network	Fabric for flexible deployments with a mix of Nexus and Non-Nexus devices.	External_Fabric	Flexible Network
Fabric Group	Domain that can contain Enhanced Classic LAN, Classic LAN, and External Connectivity Network fabrics.	Fabric_Group	Fabric Group and LAN Monitor
Classic LAN	Fabric to manage a legacy Classic LAN deployment with Nexus switches.	LAN_Classic	Classic LAN
LAN Monitor	Fabric for monitoring Nexus switches for basic discovery and inventory management.	LAN_Monitor	Fabric Group and LAN Monitor
VXLAN EVPN Multi-Site	Domain that can contain multiple VXLAN EVPN Fabrics (with Layer-2/Layer-3 Overlay Extensions) and other Fabric Types.	MSD_Fabric	VXLAN EVPN Multi-Site

Classic IPFM	Fabric to manage or monitor existing Nexus 9000 switches in an IP Fabric for Media Deployment.	IPFM_Classic	IPFM and Classic IPFM
IPFM	Fabric for a fully automated deployment of IP Fabric for Media Network with Nexus 9000 switches.	Easy_Fabric_IPFM	IPFM and Classic IPFM
Multi-Site Interconnect Network	Fabric to interconnect VXLAN EVPN for Multi-Site deployments with a mix of Nexus and Non-Nexus devices	External_Fabric	Multi-Site Network Interconnect
External Connectivity Network	Fabric for core and edge router deployments with a mix of Nexus and Non-Nexus devices.	External_Fabric	External Connectivity Network

Prerequisites to Creating a Fabric

- From Cisco NDFC Release 12.1.2e, the ESXi host default setting on the vSphere Client for promiscuous mode is supported. For more information, see *ESXi Networking for Promiscuous Mode* section. From Nexus Dashboard release 2.3.1c, the vNIC of the POD that has the Persistent IP shares the same MAC address of Nexus Dashboard bond0 or bond1 interface. Therefore, the POD sources the packets using the same MAC address of Nexus Dashboard bond0 or bond1 interfaces that are known by the VMware ESXi system.
- Configure the persistent IP addresses in Cisco Nexus Dashboard. For more information, see *Cluster Configuration* section in [Cisco Nexus Dashboard User Guide](#).

Create a Fabric

To create a Fabric using Cisco Nexus Dashboard Fabric Controller Web UI, perform the following steps:

1. Choose **LAN > Fabrics**.
2. From the **Actions** drop-down list, select **Create Fabric**.
3. Enter the fabric name and click **Choose Fabric**.
4. Specify the values for the fabric settings and click **Save**.

Locating Information on LAN Fabric Templates

The following table provides pointers to documents that give information and instructions specifically for each type of LAN fabric template.

Type of Fabric	Detailed Procedures
BGP Fabric	BGP Fabric
Campus VXLAN EVPN	Campus VXLAN EVPN
Classic IPFM	IPFM and Classic IPFM
Classic LAN	Classic LAN
Data Center VXLAN EVPN	Data Center VXLAN EVPN
Enhanced Classic LAN	Enhanced Classic LAN
External Connectivity Network	External Connectivity Network
Fabric Group	Fabric Group and LAN Monitor
Flexible Network	Flexible Network
IPFM	IPFM and Classic IPFM
LAN Monitor	Fabric Group and LAN Monitor
Multi-Site Interconnect Network	Multi-Site Interconnect Network
VXLAN EVPN Multi-Site	VXLAN EVPN Multi-Site

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