

Configure Nexus Dashboard Orchestrator to Migrate Endpoint from One DC to another DC

Contents

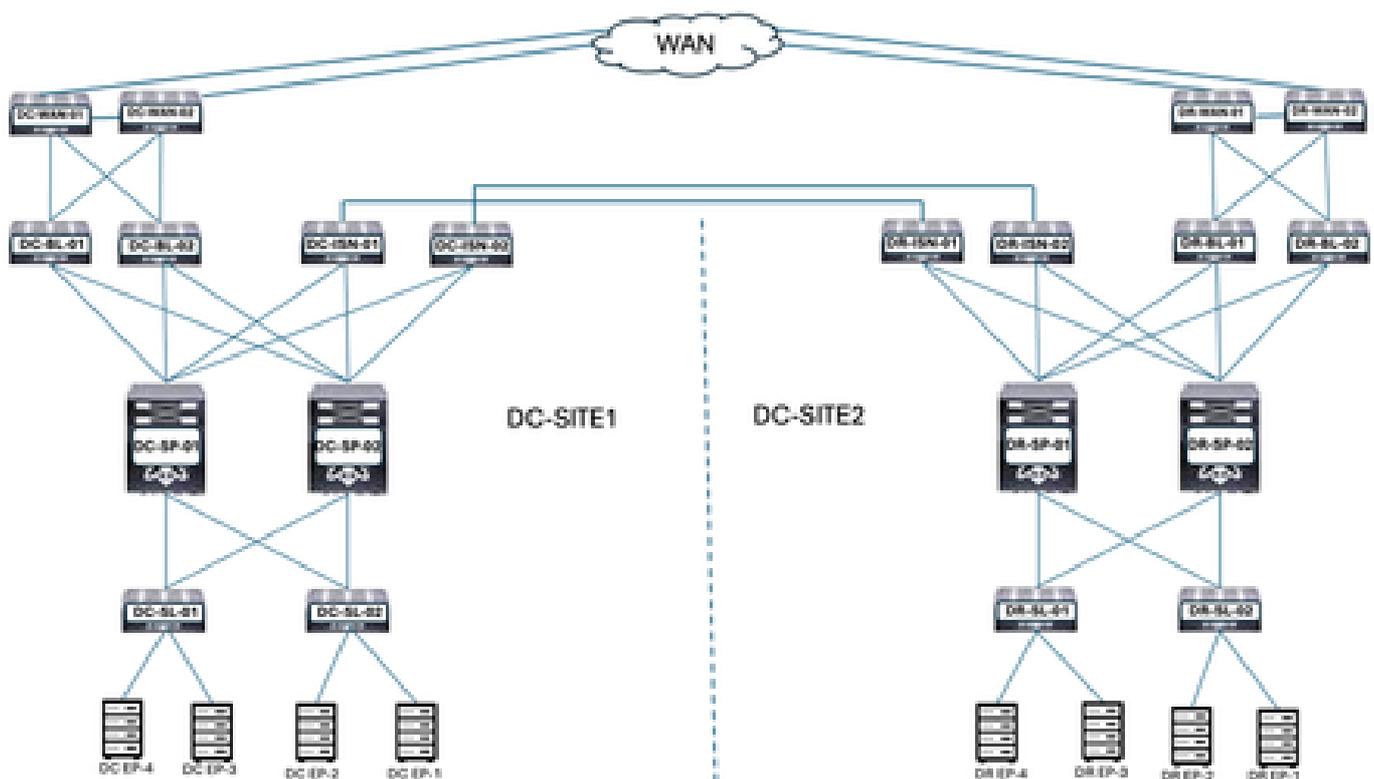
Introduction

This document describes the design and configure changes required to migrate an Endpoint from one Data Center to another Datacenter.

Physical Topology

Figure 1 depicts the inter connectivity of two Data Centers.

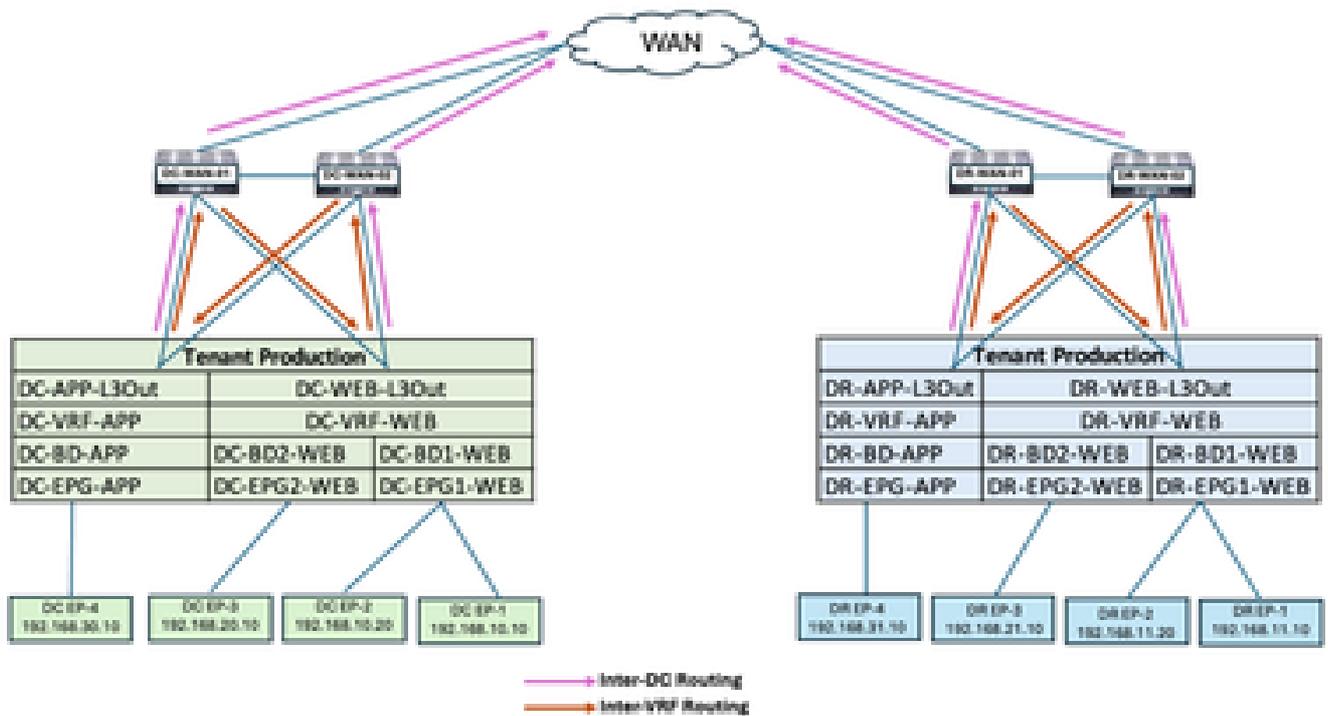
Figure 1: Physical Topology



DC and DR locations have the Application Centric Infrastructure (ACI). DC and DR locations have the WAN Switches, Border Leaf, Spines, Inter-Site Network Devices (ISN), Server Leaf and connected Endpoints.

Logical Topology

Figure 2: Logical Topology



Logical objects configured in both sites:

- Tenant Production is configured in DC and DR sites.
- DC-VRF-WEB and DC-VRF-APP is configured in DC-SITE1. DR-VRF-WEB and DR-VRF-APP is configured in DR-SITE2.
- Each VRF is configured with local L3Outs on Border Leaf towards WAN Switches. Default routes are configured on Border Leaf towards WAN Switches.
- WAN Switches are configured with Static routing for Inter-VRF and Inter-DC communication.
- Both Data Centers are configured with Local BDs and EPGs. DC has DC-BD1-WEB/DC-EPG1-WEB, DC-BD2-WEB/DC-EPG2-WEB and DC-BD-APP/DC-EPG-APP. DR has DR-BD1-WEB/DR-EPG1-WEB, DR-BD2-WEB/DR-EPG2-WEB and DR-BD-APP/DR-EPG-APP.
- There are endpoints connected in WEB and APP EPG.
- DC-SITE1 and DR-SITE2 are added in Nexus Dashboard Orchestrator.

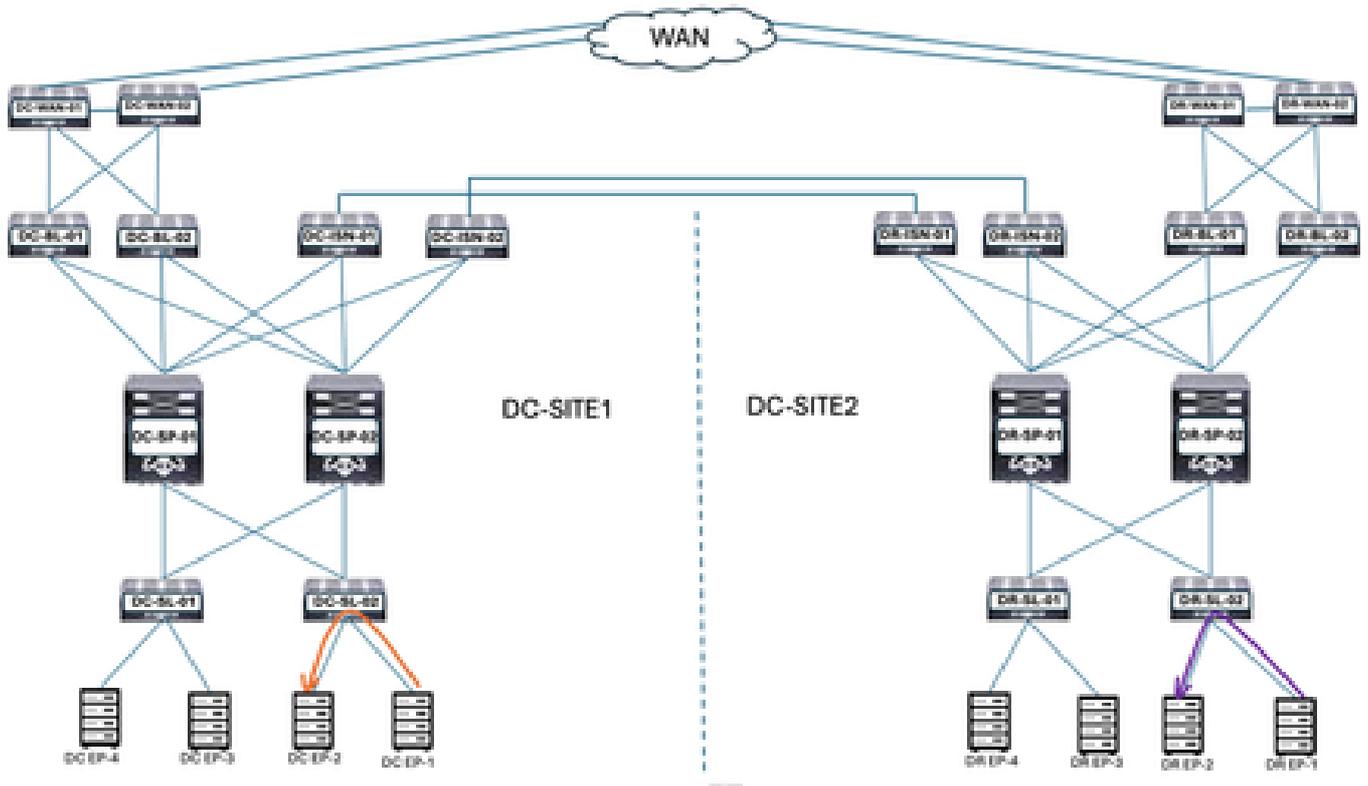
Traffic Flow before Endpoint Migration

There are multiple types of Traffic Flow in Data Centers:

- Intra EPG Traffic flow
- Inter EPG Traffic flow
- Inter VRF Traffic flow
- Inter DC traffic flow

Intra EPG Traffic Flow

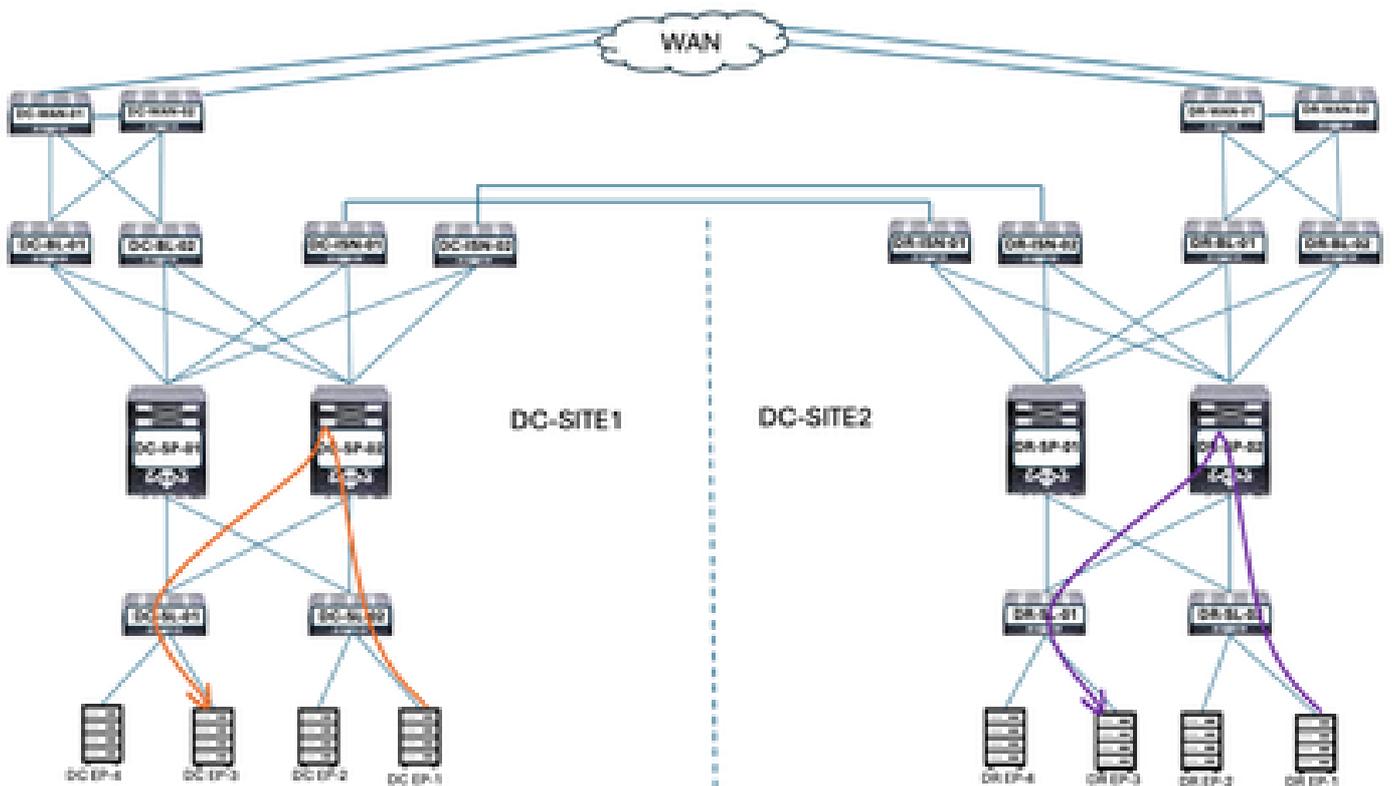
Figure 3: Intra EPG Traffic Flow



Communication between DC-EP-1 and DC-EP-2 is Intra-EPG communication, as both Endpoints belongs to DC-EPG1-WEB. Communication between DR-EP-1 and DR-EP-2 is Intra-EPG communication, as both Endpoints belongs to DR-EPG1-WEB.

Inter EPG Traffic Flow

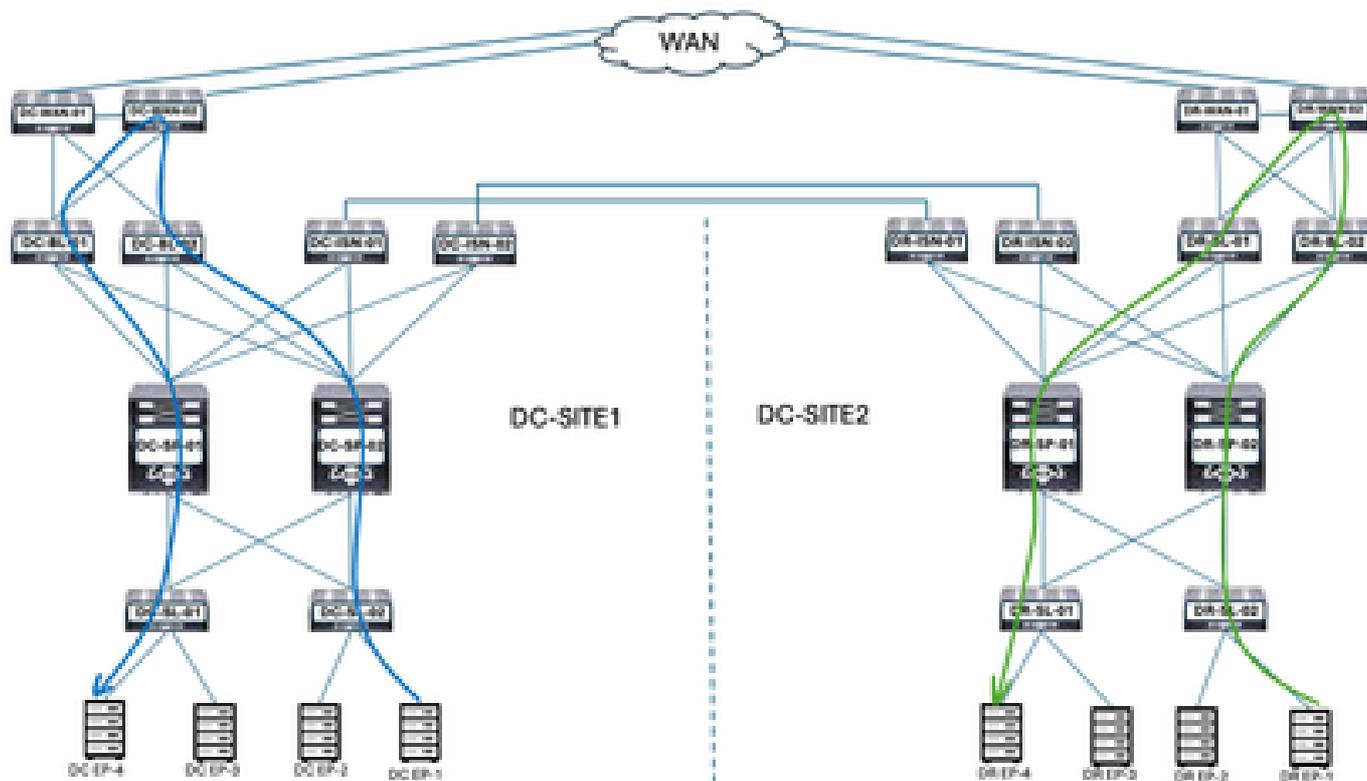
Figure 4: Inter EPG Traffic Flow



DC-EP-1 and DC-EP-3 are part of DC-EPG1-WEB and DC-EPG2-WEB respectively, communication between these two Endpoints is Inter EPG traffic Flow. DR-EP-1 and DR-EP-3 are part of DR-EPG1-WEB and DR-EPG2-WEB respectively, communication between these two Endpoints is Inter EPG traffic Flow.

Inter VRF Traffic Flow

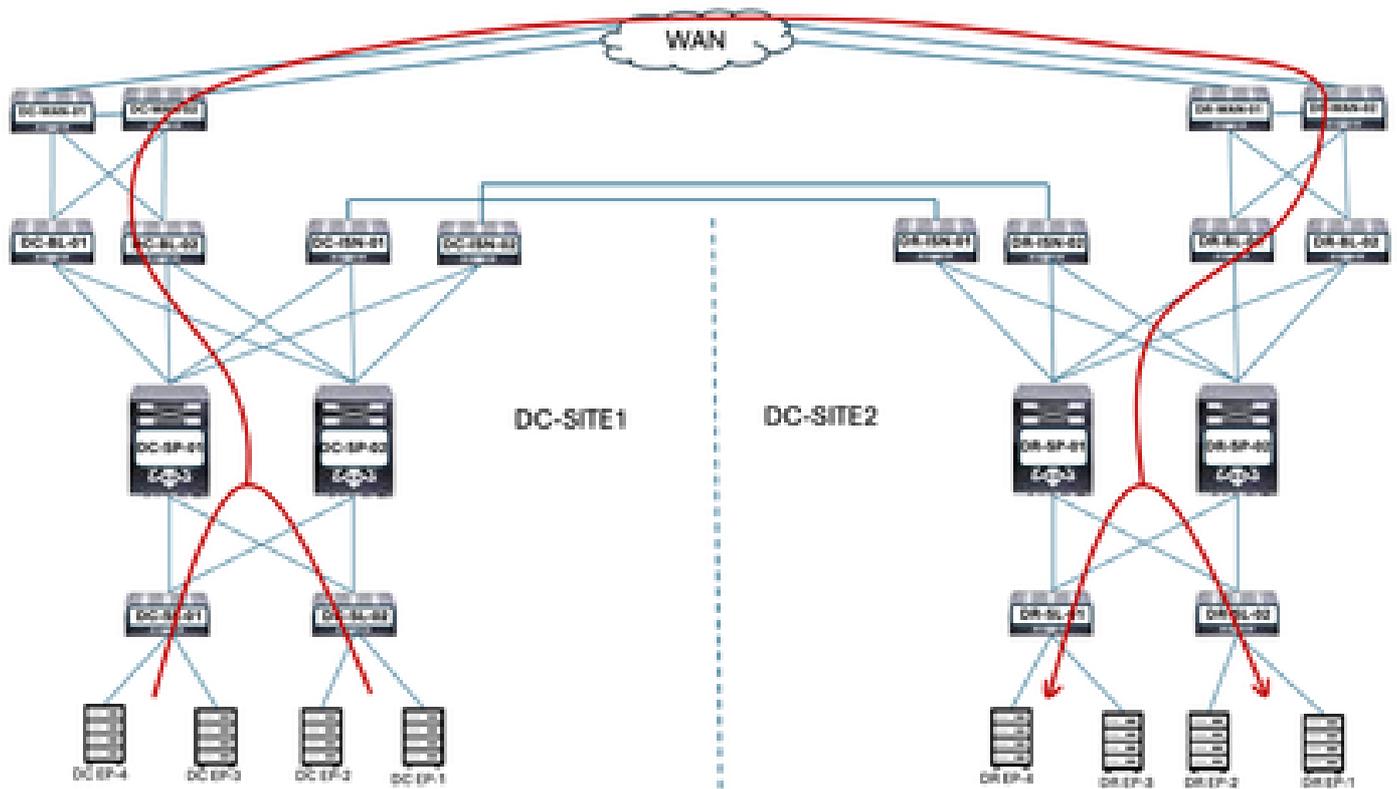
Figure 5: Inter VRF Traffic Flow



DC Border Leaf forwards the traffic to DC WAN Switches for any Inter-VRF communication. DC WAN Switches are used for Inter-VRF communication. DC-EP-1/EP-2 (VRF WEB) communicate to DC-EP-4 (VRF APP) through WAN Switches. DR Border Leaf forwards the traffic to DR WAN Switches for any Inter-VRF communication. DR WAN Switches are used for Inter-VRF communication. DR-EP-1/EP-2 (VRF WEB) communicate to DR-EP-4 (VRF APP) through WAN Switches.

Inter DC Traffic Flow

Figure 6: Inter DC Traffic Flow



Communication between DC-Endpoints and DR-Endpoints forwarded to Border Leaf. Border Leaf forwards the traffic to WAN Switches. WAN Switches are used for Inter DC communication.

Migration Plan

Nexus Dashboard Orchestrator is used to create the Multisite between both the sites, EPGs/BDs stretched across sites and endpoints to be migrated from DC-SITE1 to DR-SITE2,

Schema-1 Creation

Schema-1 created through Nexus Dashboard Orchestrator.

Figure 7: Tenant Template - Add Schema

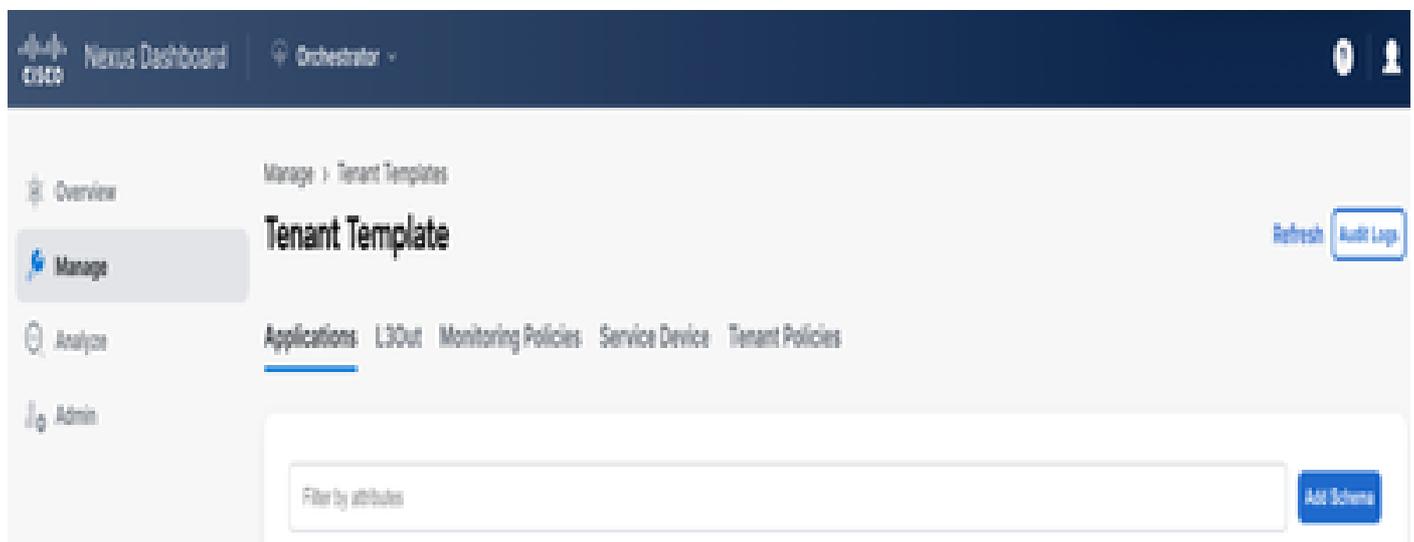
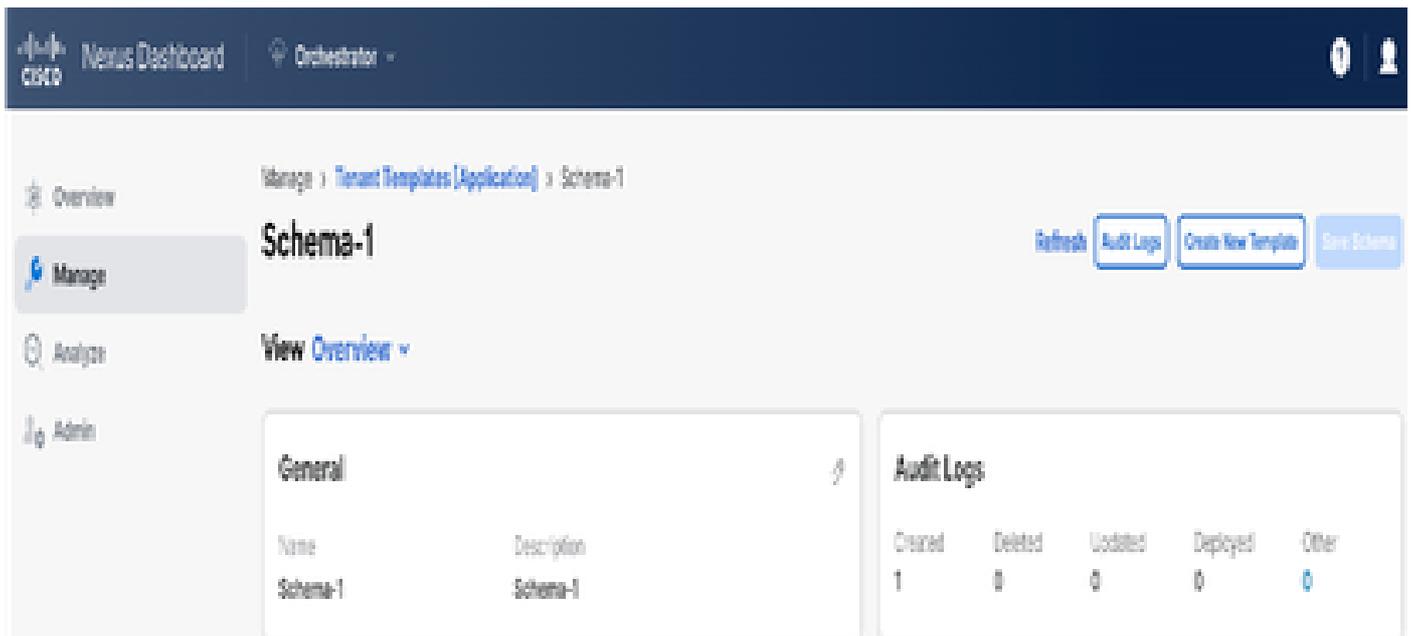


Figure 8: Add Schema name



Template-VRF-Contract-Stretched Creation

Template-VRF-Contract-Stretched created inside Schema-1. DC-SITE1 and DR-SITE2 to be part of this Template and Tenant-Production to be associated with the same Template. This is stretched template. VRF and Contracts must be part of separate Template, as these objects are shared across other BD/EPGs. This template to be used to stretch the DC-SITE1 VRF and Contract to DR-SITE2.

Figure 9: Add application Template - Select ACI Multi-Cloud

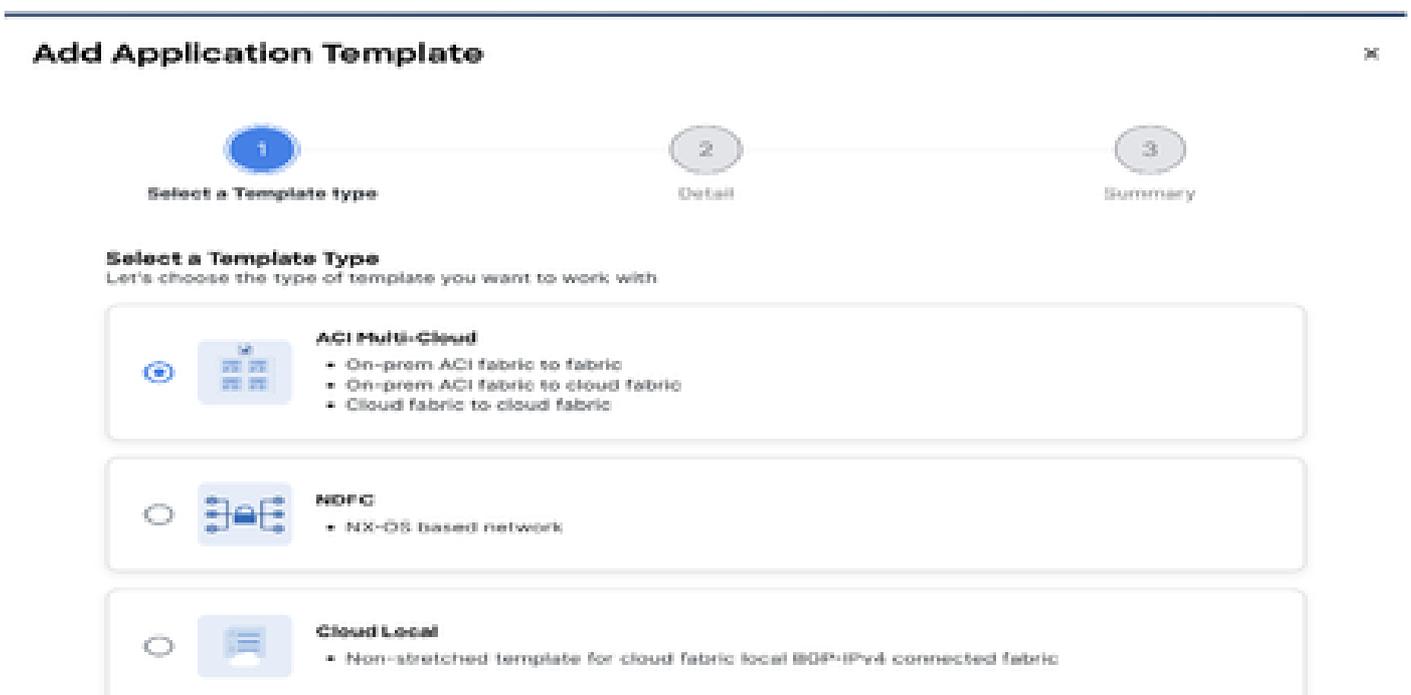


Figure 10: Add Template name Template-WEB-VRF-Contract-Stretched, Select Tenant Production

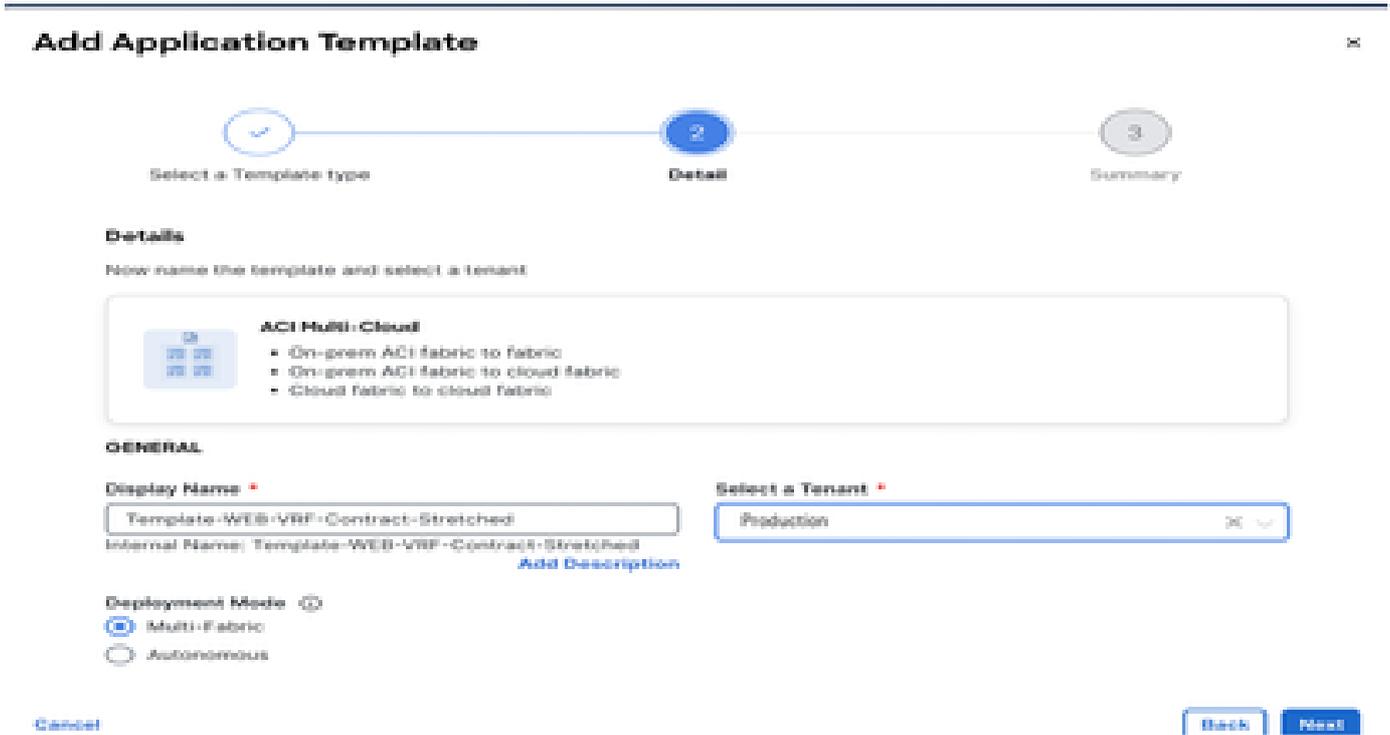
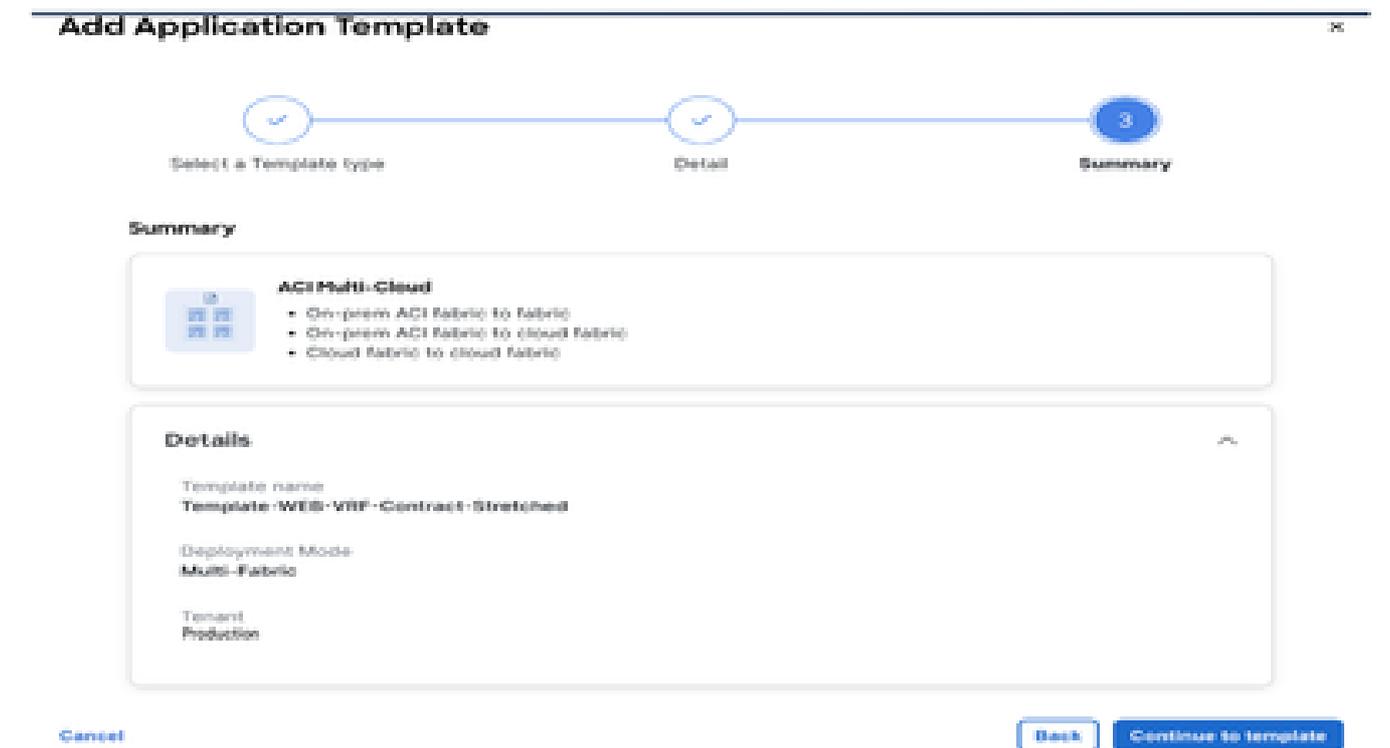


Figure 11: Template-WEB-VRF-Contract-Stretched Details



Import VRF-Contract in Template-VRF-Contract-Stretched

Import DC-VRF-WEB and DC-VRF-WEB-Contract from DC-SITE1. Contracts are created for Inter-EPG communication and EPG-to-L3Out communication.

Figure 12: Click on Import and select DC-SITE1

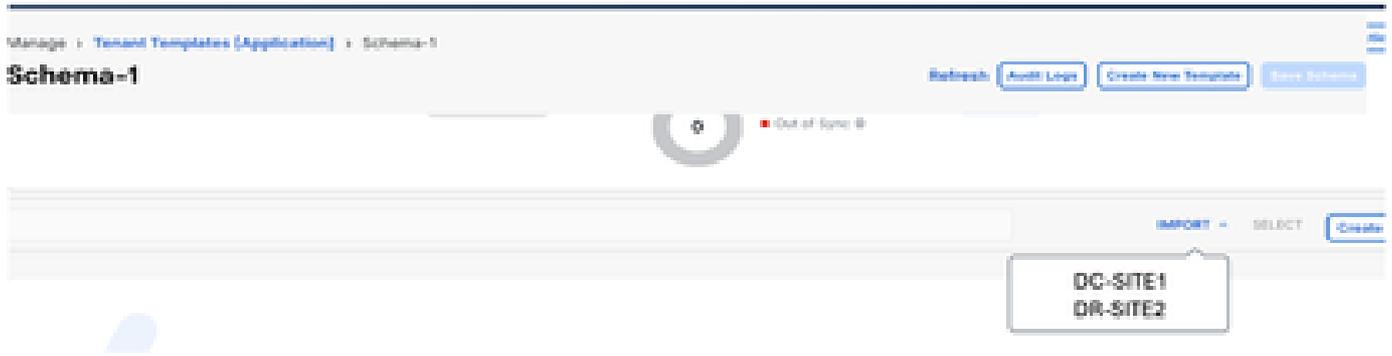


Figure 13: Select Contract from DC-SITE1

Import from DC-SITE1			X
POLICY TYPE	<input type="checkbox"/> SELECT TO IMPORT	<input type="text"/>	IMPORT RELATIONS
APPLICATION PROFILE 0 out of 2	<input type="checkbox"/> DC-EPG-TO-EPG-APP-CON 1 FILTER		
EPG 0 out of 3	<input checked="" type="checkbox"/> DC-EPG-TO-EPG-WEB-CON 1 FILTER		<input checked="" type="checkbox"/>
EXTERNAL EPG 0 out of 2	<input type="checkbox"/> DC-EPG-TO-L3Out-APP-CON 1 FILTER		
CONTRACT 2 out of 4	<input checked="" type="checkbox"/> DC-EPG-TO-L3Out-WEB-CON 1 FILTER		<input checked="" type="checkbox"/>

Figure 14: Select Filter from DC-SITE1

POLICY TYPE		<input type="checkbox"/> SELECT TO IMPORT	<input type="text" value=""/>	IMPORT RELATIONS
APPLICATION PROFILE	0 out of 2	<input type="checkbox"/>	DC-EPG-TO-EPG-APP-FIL	
EPG	0 out of 3	<input checked="" type="checkbox"/>	DC-EPG-TO-EPG-WEB-FIL	
EXTERNAL EPG	0 out of 2	<input type="checkbox"/>	DC-EPG-TO-L3Out-APP-FIL	
CONTRACT	2 out of 4	<input checked="" type="checkbox"/>	DC-EPG-TO-L3Out-WEB-FIL	
FILTER		2 out of 4		

Figure 15: Select VRF from DC-SITE1

POLICY TYPE		<input checked="" type="checkbox"/> SELECT TO IMPORT	<input type="text" value=""/>	IMPORT RELATIONS
APPLICATION PROFILE	0 out of 2	<input type="checkbox"/>	DC-VRF-APP	
EPG	0 out of 3	<input checked="" type="checkbox"/>	DC-VRF-WEB	
EXTERNAL EPG	0 out of 2			
CONTRACT	2 out of 4			
FILTER		2 out of 4		
VRF		1 out of 2		

Figure 16: Template-WEB-VRF-Contract-Stretched with VRF and Contract information

Manage > Tenant Templates (Application) > Schema-1

Schema-1

Refresh Audit Logs Create New Template Edit Schema

Template Summary

Type: Application Tenant: Production Template Status: Out of Sync Associated Fabrics: 2 Last Action: Updated Deployment Mode: Multi-Fabric

Edit Template Deploy Template Action

Filter SEARCH SELECT Create

Contracts Create Co

DC-EPG-TD-EPG-WEB-COR

DC-EPG-TD-L3Out-WEB-COR

VRFs Crea

DC-VRF-APP

DC-VRF-WEB

Deploy Template-VRF-Contract-Stretched

Click on Deploy Template-VRF-Contract-Stretched and select DC-SITE1 and DR-SITE2

Figure 17: Add Fabrics to Template-VRF-Contract-Stretched

Add Fabrics To Template-WEB-VRF-Contract-Stretched X

Name

● (DC-SITE1) 6.0.0/24

● (DR-SITE2) 6.0.0/24

OK

Figure 18: Deploy out Sync Templates

Deploy Out of Sync Templates ✕

The following templates will be deployed in the specified order

Out of Sync Templates

Template Name	Template Type	T	Associated Fabrics
Template-WEB-VRF-Contract-Stretched	Application	T	2

1 Items found Rows per page 5 < 1 >

Cancel
Deploy Out of Sync Templates

Figure 19: Deployment completed

Manage > Tenant Templates (Application) > Schema-1

Schema-1 Refresh Audit Log Create New Template Edit Schema

View [Template-WEB-VRF-Contract-Stretched](#)

[Template Properties](#) +(DC-SITE1) +(DR-SITE2)

Template Summary

Type Application	Tenant Production	Template Status In Sync	Associated Fabrics <div style="text-align: center; border: 2px solid #28a745; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">2</div> ■ In Sync 2 ■ Out of Sync 0 	Last Action Deployment Successful Last Deployed: Jan 3, 2025 09:07 pm	Deployment Mode Multi-Fabric
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Edit Template
Deploy Template
Audit

IMPORT SELECT Create

Contracts Create Co

DC-EPG-TO-EPG-WEB-CON

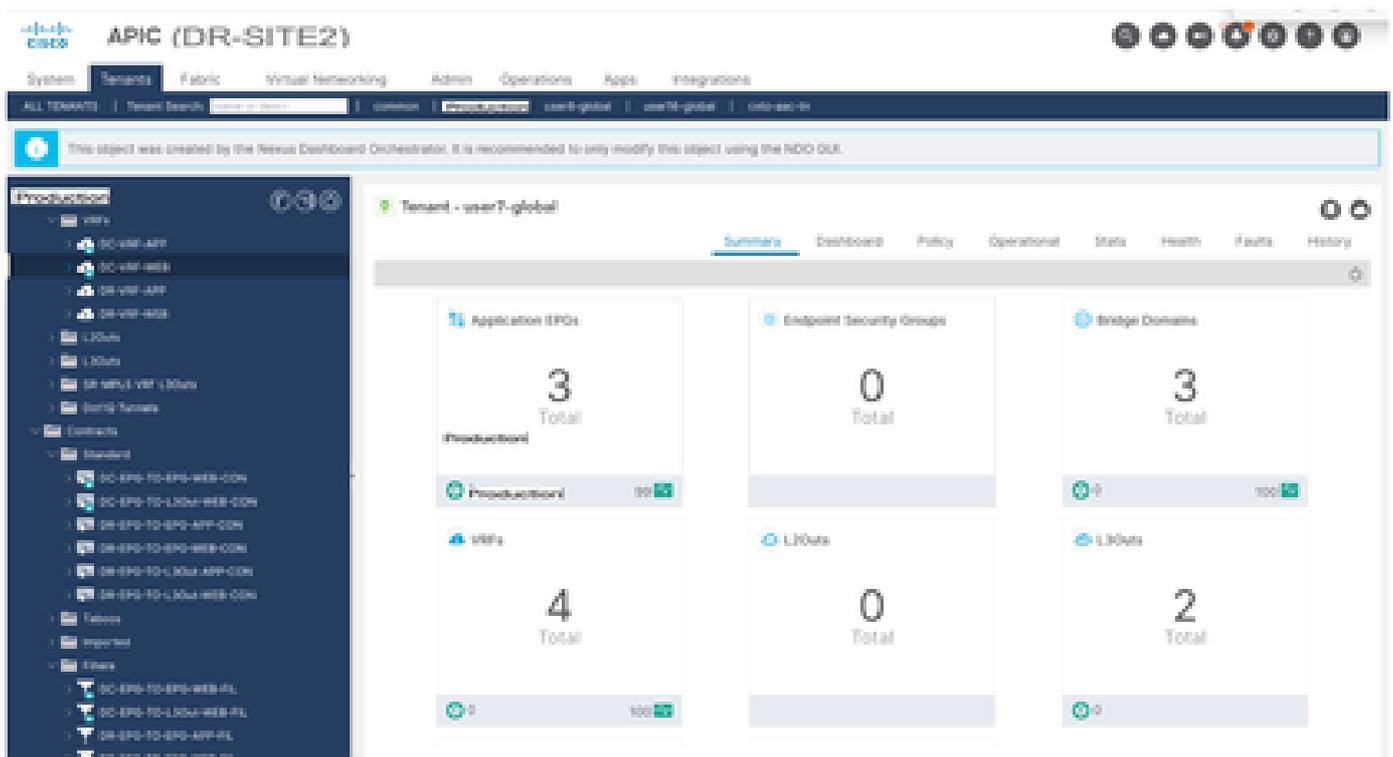
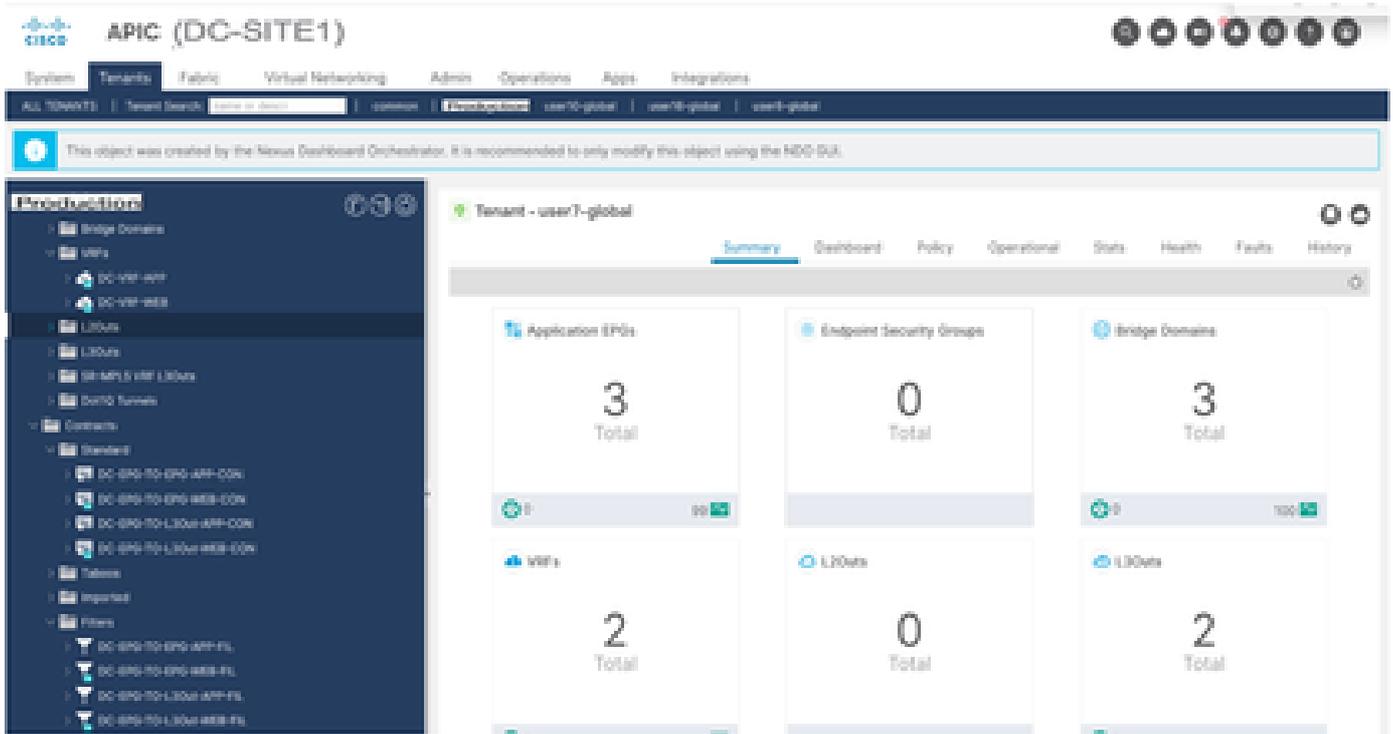
DC-EPG-TO-LSOut-WEB-CON

VRFs Crea

DC-VRF-APP

DC-VRF-WEB

Figure 20: Verify VRF and Contracts deployed on both Sites



Template-EPG1-BD1-Stretched Creation

Template-EPG1-BD1-Stretched created inside Schema-1. DC-SITE1 and DR-SITE2 added to Template and Tenant-Production associated with the same Template. This is stretched template. This template used to stretch DC-EPG1-WEB and DC-BD1-WEB to DR-SITE2.

Figure 21: Add application Template - Select ACI Multi-Cloud

Add Application Template

✕

1 Select a Template type 2 Detail 3 Summary

Select a Template Type
Let's choose the type of template you want to work with

- ACI Multi-Cloud**
 - On-prem ACI fabric to fabric
 - On-prem ACI fabric to cloud fabric
 - Cloud fabric to cloud fabric
- NDPC**
 - NX-OS based network
- Cloud Local**
 - Non-stretched template for cloud fabric local BGP+IPv4 connected fabric

Figure 22: Add Template name Template-EPG1-BD1-Stretched, Select Tenant Production

Add Application Template ✕

1 ✓ Select a Template type 2 **Detail** 3 Summary

Details
Now name the template and select a tenant

- ACI Multi-Cloud**
 - On-prem ACI fabric to fabric
 - On-prem ACI fabric to cloud fabric
 - Cloud fabric to cloud fabric

GENERAL

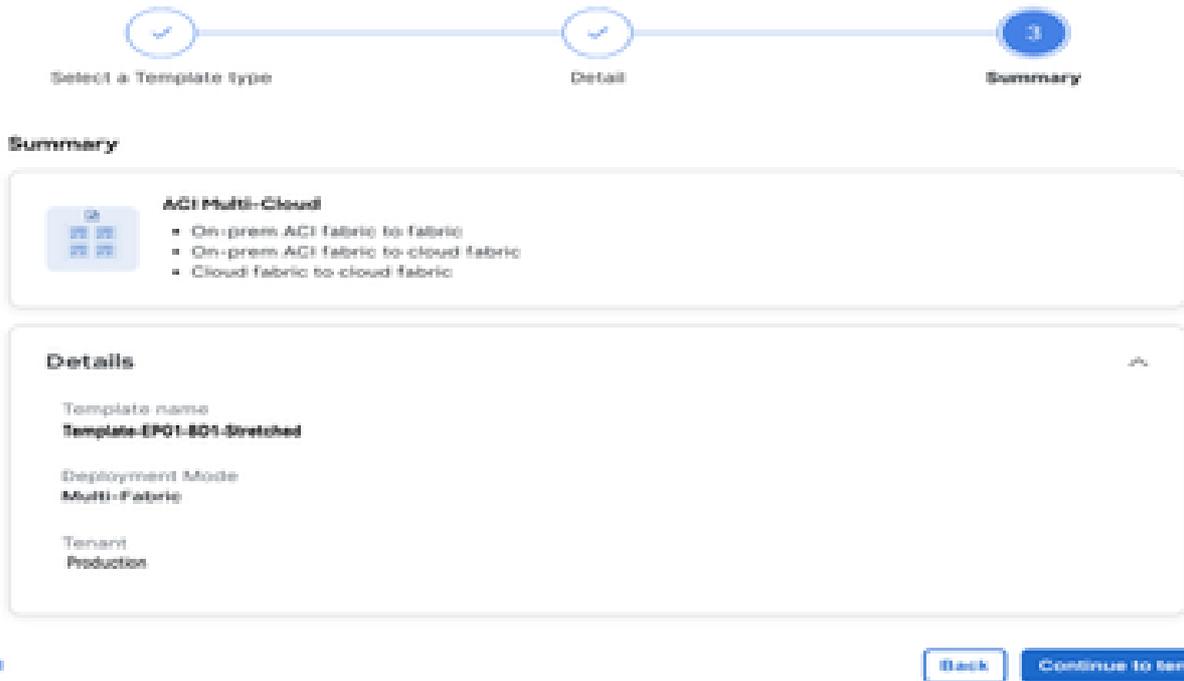
Display Name:
Internal Name: Template-EPG1-BD1-Stretched [Add Description](#)

Select a Tenant: ✕

Deployment Mode: Multi-Fabric Autonomous

[Cancel](#) [Back](#) [Next](#)

Figure 23: Template-EPG1-BD1-Stretched Details



Import EPG1-BD1 in Template-EPG1-BD1-Stretched

Import DC-EPG1-WEB and DC-BD1-WEB from DC-SITE1.

Figure 24: Click on Import and select DC-SITE1

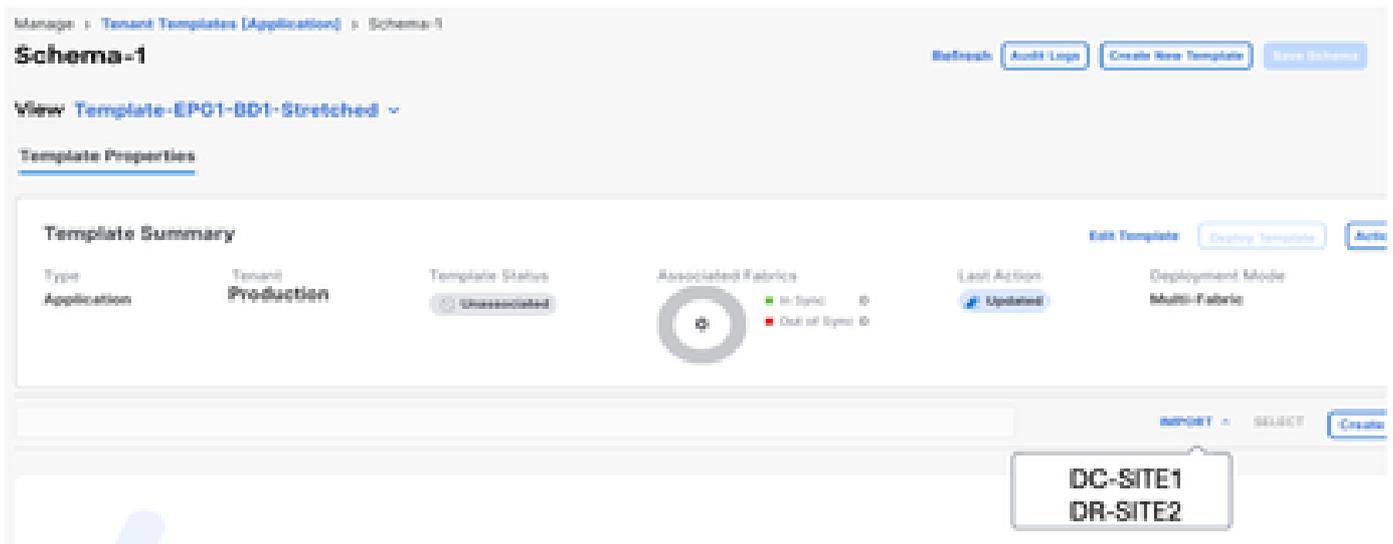


Figure 25: Select DC-EPG1-WEB from DC-SITE1

Import from DC-SITE1 X

POLICY TYPE	<input type="checkbox"/> SELECT TO IMPORT	<input type="text" value=""/>	IMPORT RELATIONS
APPLICATION PROFILE 1 out of 2	<input checked="" type="checkbox"/>  DC-EPG1-WEB 1 AP • 4 CONTRACT • 1 BD		<input checked="" type="checkbox"/>
EPG 1 out of 3	<input type="checkbox"/>  DC-EPG2-WEB 1 AP • 4 CONTRACT • 1 BD		
EXTERNAL EPG 0 out of 2	<input type="checkbox"/>  DC-EPG-APP 1 AP • 4 CONTRACT • 1 BD		

Figure 26: Select DC-BD1-WEB from DC-SITE1

Import from DC-SITE1 X

POLICY TYPE	<input type="checkbox"/> SELECT TO IMPORT	<input type="text" value=""/>	IMPORT RELATIONS
APPLICATION PROFILE 1 out of 2	<input checked="" type="checkbox"/>  DC-BD1-WEB 1 VRF		<input type="checkbox"/>
EPG 1 out of 3	<input type="checkbox"/>  DC-BD2-WEB 1 VRF		
EXTERNAL EPG 0 out of 2	<input type="checkbox"/>  DC-BD-APP 1 VRF		
CONTRACT 0 out of 4			
FILTER 0 out of 4			
VRF 0 out of 2			
BD 1 out of 3			

Change BD setting in Template-EPG1-BD1-Stretched

Enable L2 Stretch in DC-BD1-WEB settings and add the Gateway IP Address. This template used to stretch BD across the site and the anycast Gateway configured in DC-SITE1 and DR-SITE2.

Figure 27: Select L2 Stretch in DC-BD1-WEB

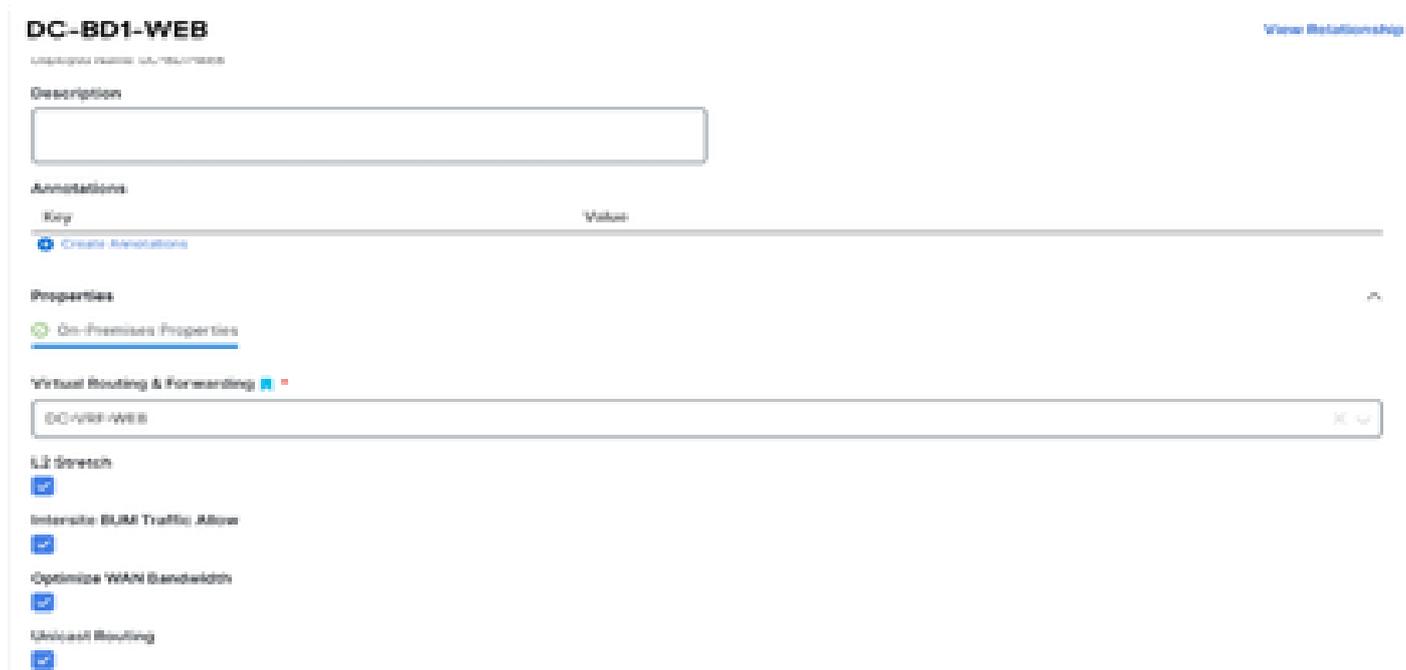
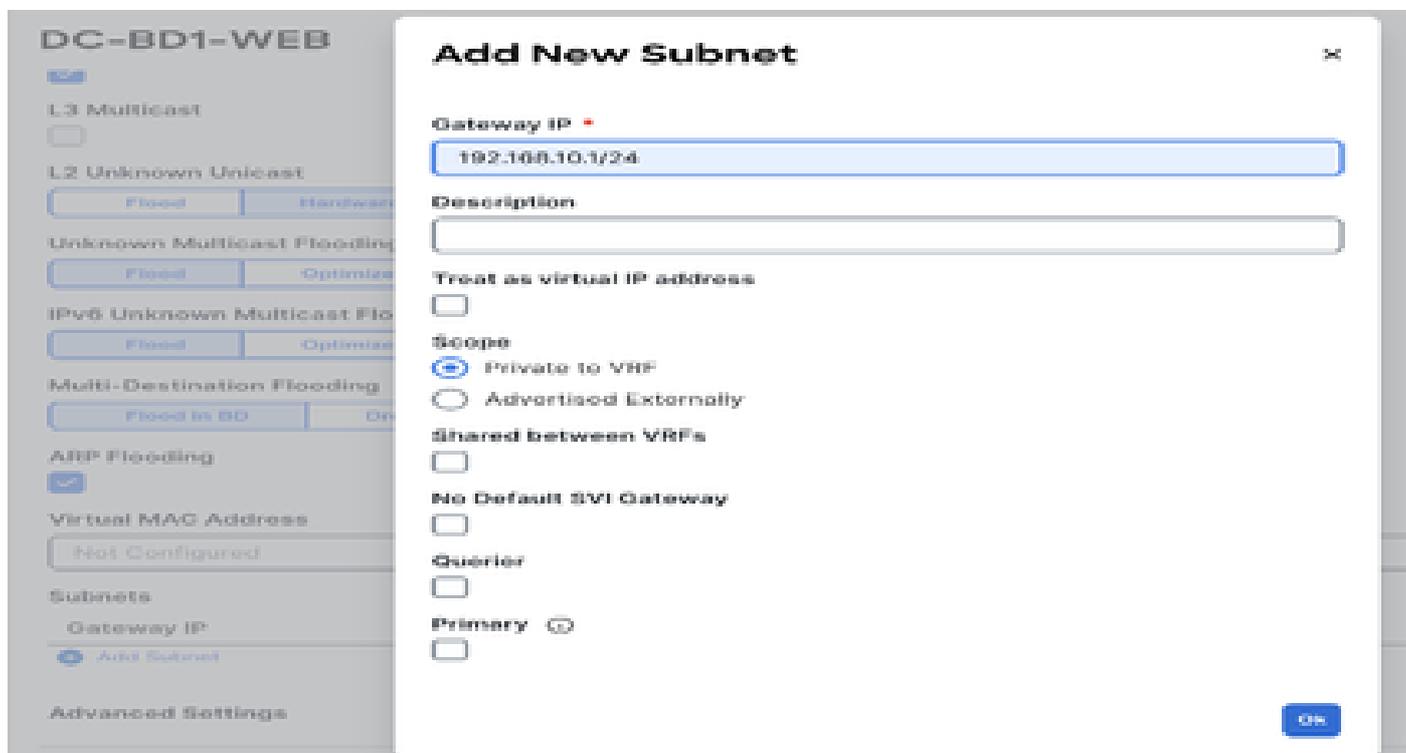


Figure 28: Add Gateway IP/Subnet



Deploy Template-EPG1-BD1-Stretched

Click on Deploy Template-EPG1-BD1-Stretched and select DC-SITE1 and DR-SITE2

Figure 29:Add Fabrics to Template-EPG1-BD1-Stretched



Figure 30: Deploy out Sync Templates

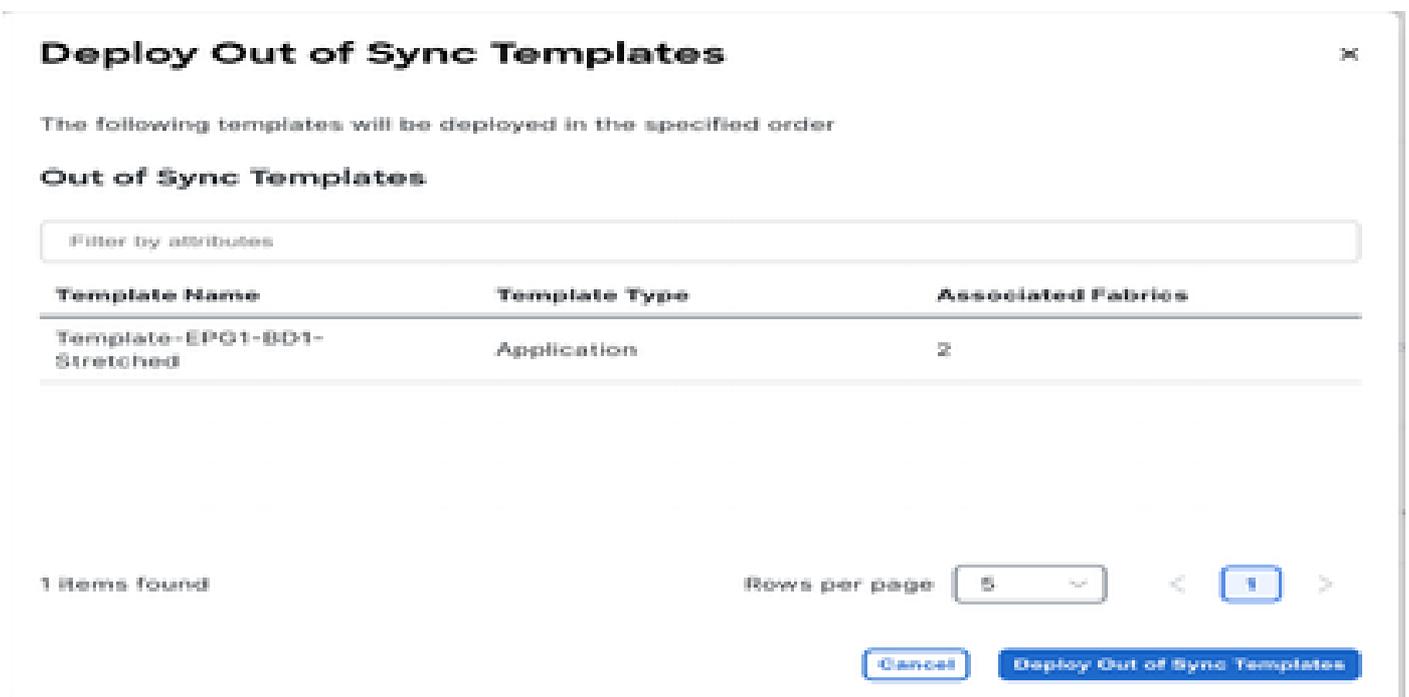


Figure 31: Deployment completed

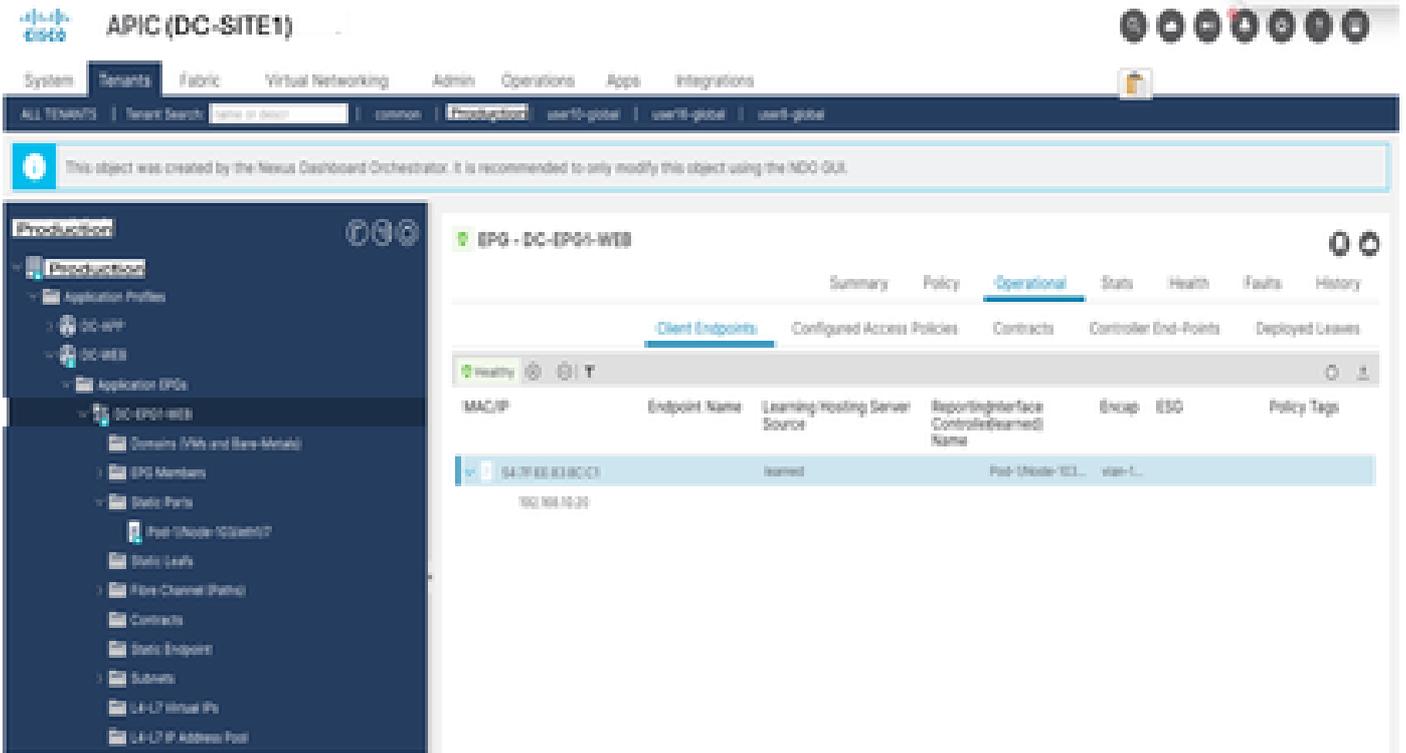


Figure 34: Adding Physical domain in DR-SITE2

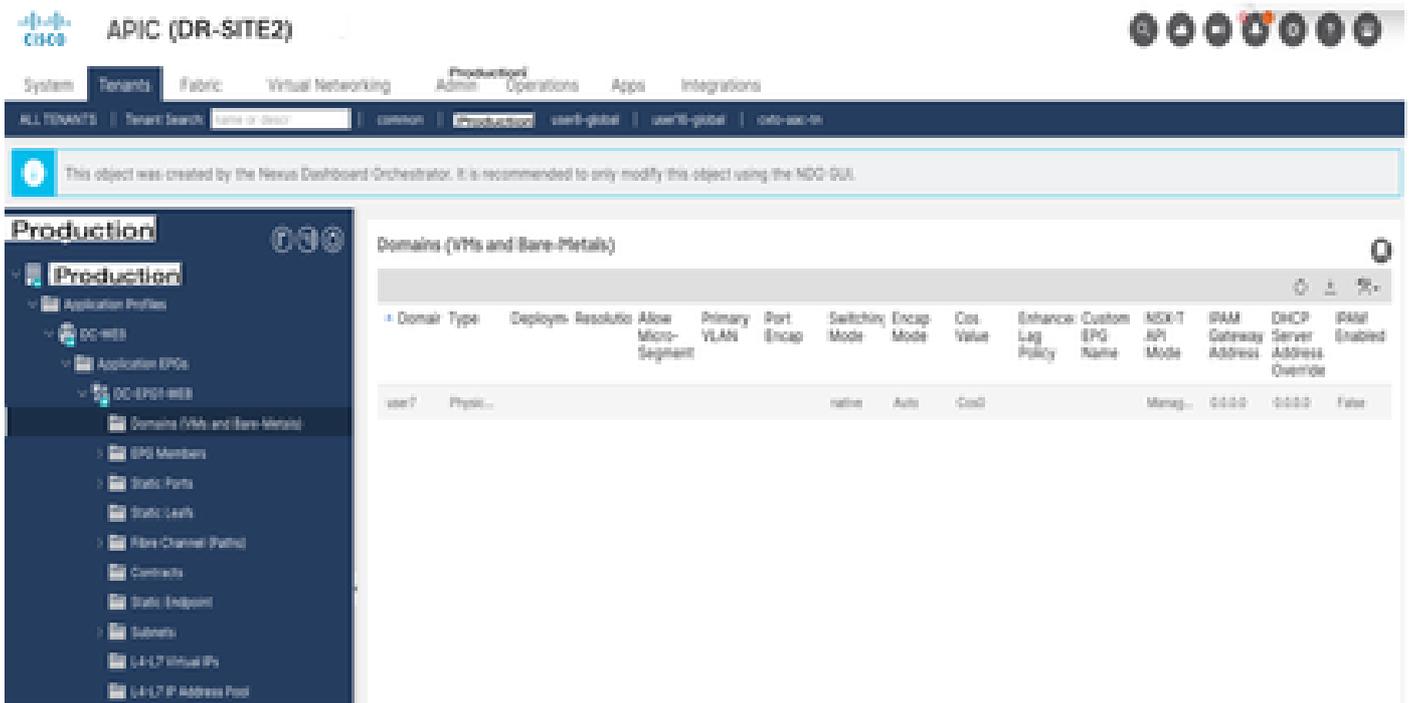


Figure 35: Adding Static Binding in DR-SITE2

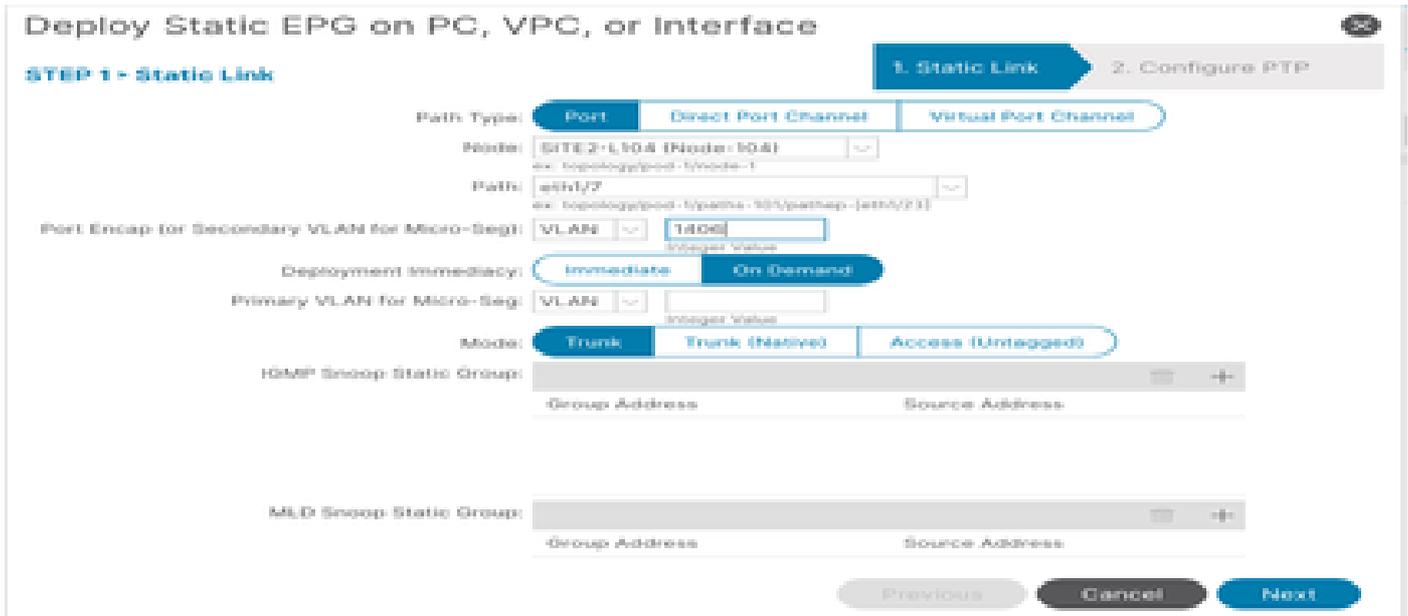
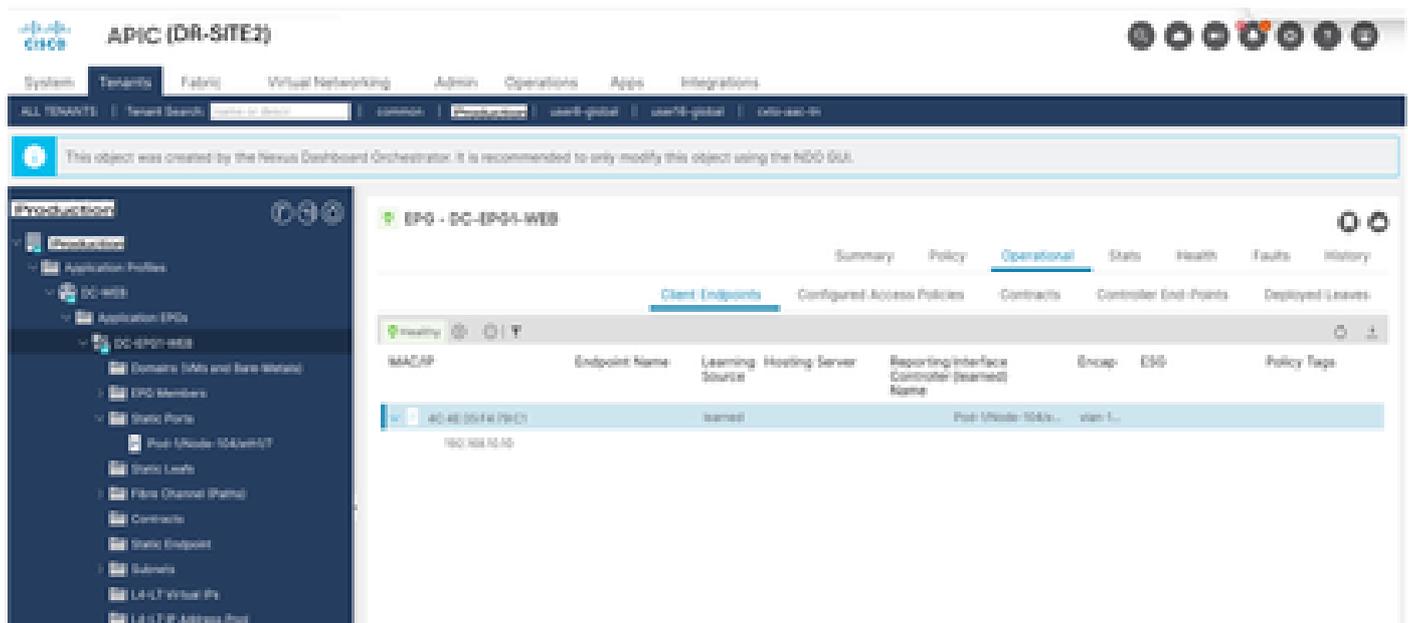


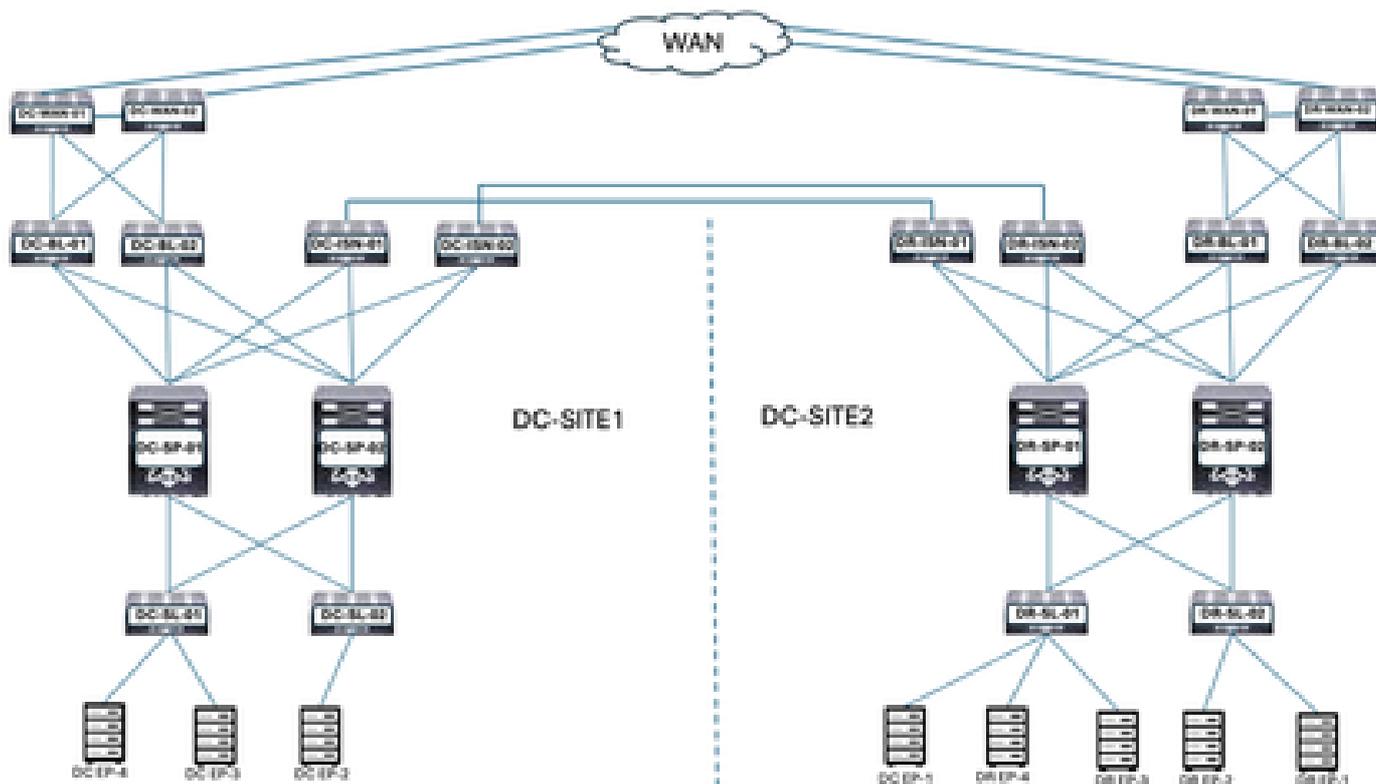
Figure 36: DC-EP-1 learned in DR-SITE2



Physical Design after DC-EP-1 Migration

DC-EP-1 is connected to DR-SITE2 Server Leaf.

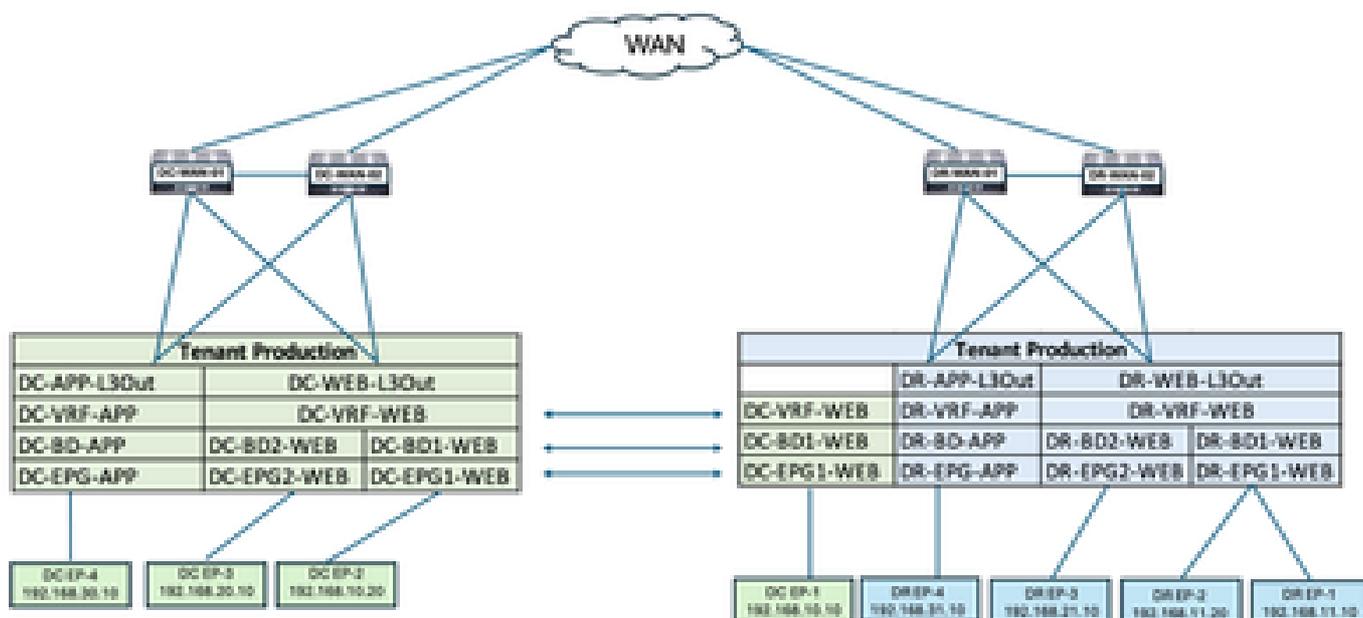
Figure 37: Physical Design after DC-EP-1 Migration



Logical Design after DC-EP-1 Migration

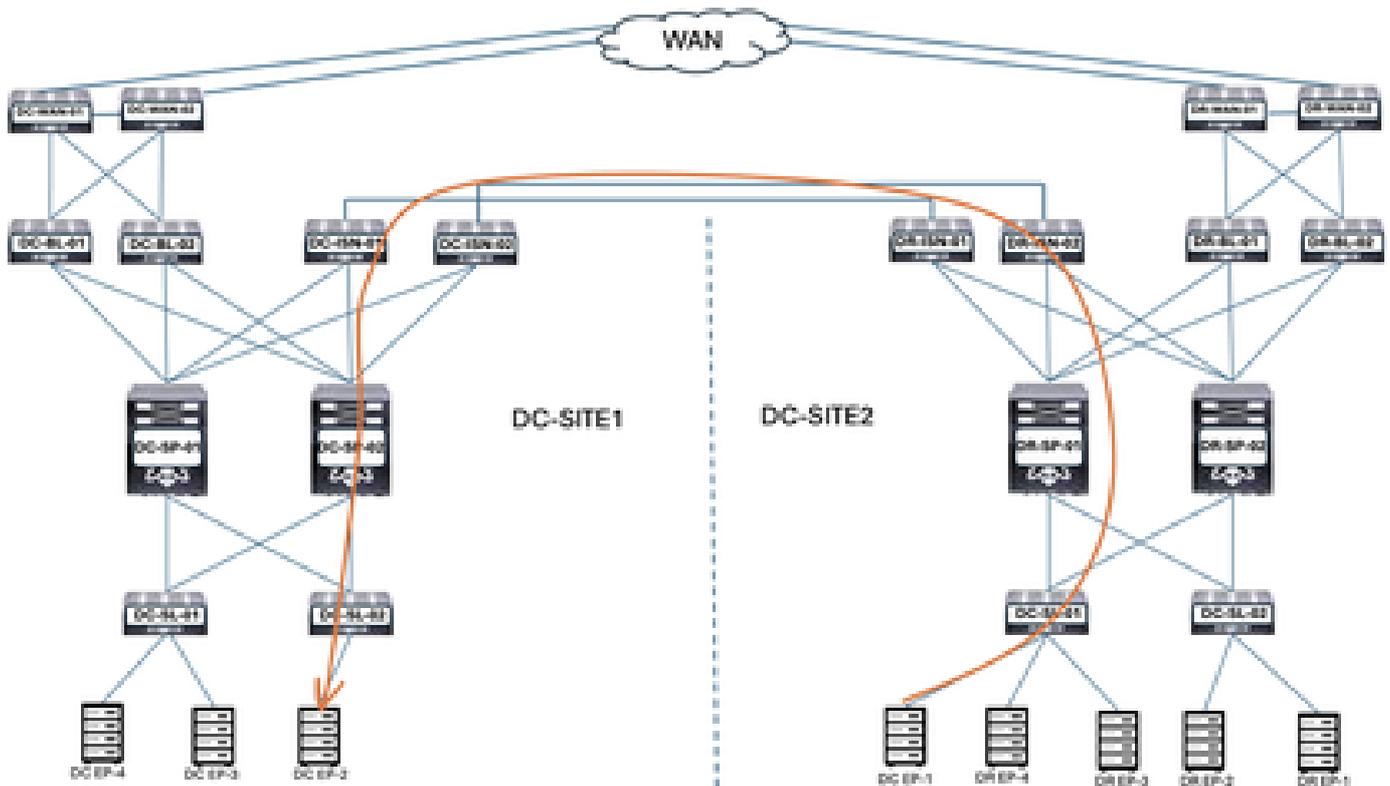
DC-EP-1 is connected to DR-SITE2 Server Leaf. DC-EPG1-WEB, DC-BD1-WEB and DC-VRF-WEB are stretched between DC-SITE1 and DR-SITE2.

Figure 38: Logical Design after DC-EP-1 Migration



Intra EPG Traffic Flow after DC-EP-1 Migration

Figure 39: Intra EPG Traffic Flow after DC-EP-1 Migration



Communication between DC-EP-1 and DC-EP-2 is Intra-EPG communication, as both Endpoints belongs to DC-EPG1-WEB. This communication happens through DC ISN to DR ISN Multisite/Overlay Links.

Ping response between DC-EP-1 and DC-EP-2

Figure 40: Ping response between DC-EP-1 and DC-EP-2

```
# ping 192.168.10.20 source 192.168.10.10 vrf site-1
PING 192.168.10.20 (192.168.10.20) from 192.168.10.10: 56 data bytes
64 bytes from 192.168.10.20: icmp_seq=0 ttl=254 time=2.592 ms
64 bytes from 192.168.10.20: icmp_seq=1 ttl=254 time=1.931 ms
64 bytes from 192.168.10.20: icmp_seq=2 ttl=254 time=1.89 ms
64 bytes from 192.168.10.20: icmp_seq=3 ttl=254 time=2.063 ms
64 bytes from 192.168.10.20: icmp_seq=4 ttl=254 time=1.989 ms

--- 192.168.10.20 ping statistics ---
5 packets transmitted, 5 packets received, 0.00% packet loss
round-trip min/avg/max = 1.89/2.092/2.592 ms
```

Routing Table from Spines

DC-EP-1 learned in DC-SP-01/DC-SP-02 from DR-SP-01/DR-SP-02.

Figure 41: Routing Table from Spines

DC-EP-1 is learned in DC-SITE1-SP-01 from DR-SITE2-SP-01

```
DC-SITE1-SP-01# show bgp l2vpn evpn vrf overlay-1

Route Distinguisher: 1:49985577
*>e[2]:[0]:[0]:[48]:[4c4e.35f4.79c1]:[0]:[0.0.0.0]/216
      172.16.0.13                                0 65002 1
*>e[2]:[0]:[0]:[48]:[4c4e.35f4.79c1]:[32]:[192.168.10.10]/272
      172.16.0.13                                0 65002 1
```

DR-SITE2-SP-01 Overlay Unicast TEP IP

```
DR-SITE2-SP-01# show ip int vrf overlay-1
```

```
lo5, Interface status: protocol-up/link-up/admin-up, iod: 86, mode: dci-ucast  
IP address: 172.16.0.13, IP subnet: 172.16.0.13/32  
IP broadcast address: 255.255.255.255  
IP primary address route-preference: 0, tag: 0
```

Template-EPG2-BD2-Site1 Creation

Inter EPG communication between DC-EP-1 and DC-EP-3 happens, once DC-EPG2-WEB and DC-BD2-WEB are part of Nexus Dashboard Orchestrator.

Template-EPG2-BD2-Site1 created inside Schema-1. DC-SITE1 added to Template and Tenant-Production associated with the same Template. This is site specific template. This template used to import the Template-EPG2-BD2-Site1 for the communication between DC-EP-1 and DC-EP-3.

DC-EP-1 and DC-EP-3 communication requires DC-EPG2-BD2 has to be part of Nexus Dashboard Orchestrator.

Figure 42: DC-EP-1 and DC-EP-3 not able to communicate

```
# ping 192.168.20.10 source 192.168.10.10 vrf site-1  
PING 192.168.20.10 (192.168.20.10) from 192.168.10.10: 56 data bytes  
Request 0 timed out  
Request 1 timed out  
Request 2 timed out  
Request 3 timed out  
Request 4 timed out  
  
--- 192.168.20.10 ping statistics ---  
5 packets transmitted, 0 packets received, 100.00% packet loss
```

Figure 43: Add application Template - Select ACI Multi-Cloud

Add Application Template

✕

1 Select a Template type 2 Detail 3 Summary

Select a Template Type
Let's choose the type of template you want to work with

- ACI Multi-Cloud**
 - On-prem ACI fabric to fabric
 - On-prem ACI fabric to cloud fabric
 - Cloud fabric to cloud fabric
- NDPC**
 - ND-OS based network
- Cloud Local**
 - Non-stretched template for cloud fabric local BGP/IPv4 connected fabric

Figure 44: Add Template name Template-EPG2-BD2-Site1, Select Tenant Production

Add Application Template

✕

1 Select a Template type 2 **Detail** 3 Summary

Details
Now name the template and select a tenant

- ACI Multi-Cloud**
 - On-prem ACI fabric to fabric
 - On-prem ACI fabric to cloud fabric
 - Cloud fabric to cloud fabric

GENERAL

Display Name +
Template-EPG2-BD2-Site1
Internal Name: Template-EPG2-BD2-Site1 [Add Description](#)

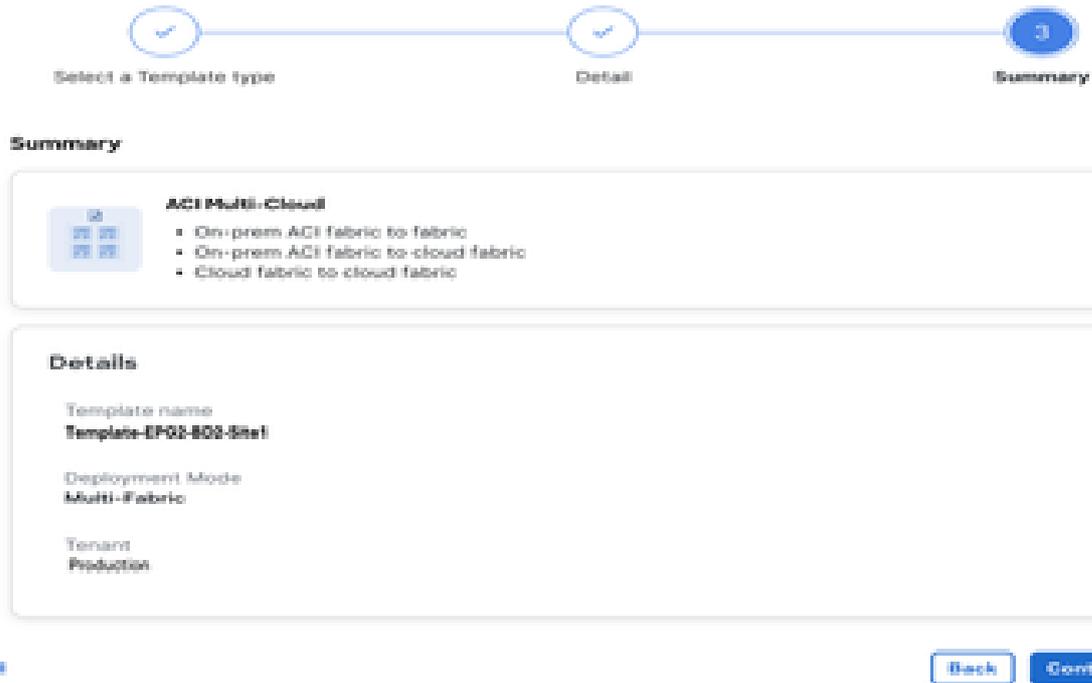
Select a Tenant +
Production ✕

Deployment Mode ⊞
 Multi-Fabric
 Autonomous

[Cancel](#) [Back](#) [Next](#)

Figure 45: Template-EPG2-BD2-Site1 Details

Add Application Template



The image shows a three-step process for adding an application template. The steps are: 1. Select a Template type (marked with a checkmark), 2. Detail (marked with a checkmark), and 3. Summary (marked with a '3'). The Summary screen displays the following information:

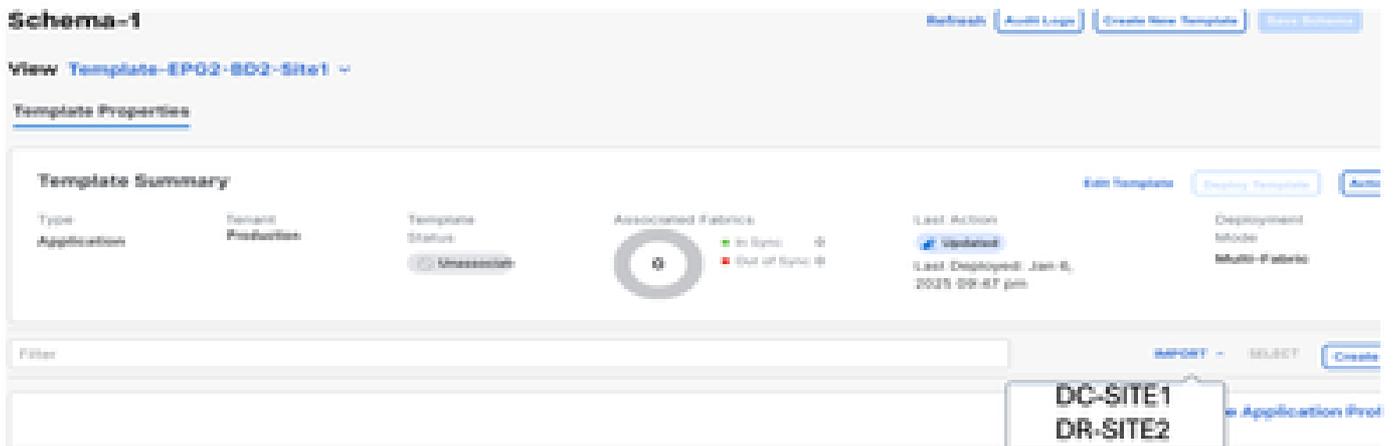
- ACI Multi-Cloud**
 - On-prem ACI fabric to fabric
 - On-prem ACI fabric to cloud fabric
 - Cloud fabric to cloud fabric
- Details**
 - Template name: **Template-EPG2-BD2-Site1**
 - Deployment Mode: **Multi-Fabric**
 - Tenant: **Production**

At the bottom, there are three buttons: **Cancel**, **Back**, and **Continue to template**.

Import EPG2-BD2 in Template-EPG2-BD2-Site1

Import DC-EPG2-WEB and DC-BD2-WEB from DC-SITE1.

Figure 46: Click on Import and select DC-SITE1



The image shows the 'Schema-1' interface for 'Template-EPG2-BD2-Site1'. It includes a 'Template Properties' section with the following details:

- Template Summary**
 - Type: Application
 - Tenant: Production
 - Template Status: **Missing**
 - Associated Fabric: 0 (0 In Sync, 0 Out of Sync)
 - Last Action: **Updated**
 - Last Deployed: Jan 8, 2025 09:57 pm
 - Deployment Mode: **Multi-Fabric**

At the bottom, there is a table with a filter input and buttons for 'IMPORT', 'SELECT', and 'Create'. A callout box highlights the entries 'DC-SITE1' and 'DR-SITE2' in the table.

Figure 47: Select DC-EPG2-WEB from DC-SITE1

Import from DC-SITE1

POLICY TYPE	<input type="checkbox"/> SELECT TO IMPORT	<input type="text" value=""/>	IMPORT RELATIONS
APPLICATION PROFILE 1 out of 2	<input type="checkbox"/>	DC-EPG1-WEB 1 AP • 4 CONTRACT • 1 BD	
EPG 1 out of 3	<input checked="" type="checkbox"/>	DC-EPG2-WEB 1 AP • 4 CONTRACT • 1 BD	<input checked="" type="checkbox"/>
EXTERNAL EPG 0 out of 2	<input type="checkbox"/>	DC-EPG-APP 1 AP • 4 CONTRACT • 1 BD	

Figure 48: Select DC-BD2-WEB from DC-SITE1

Import from DC-SITE1

POLICY TYPE	<input type="checkbox"/> SELECT TO IMPORT	<input type="text" value=""/>	IMPORT RELATIONS
APPLICATION PROFILE 1 out of 2	<input type="checkbox"/>	DC-BD1-WEB 1 VRF	
EPG 1 out of 3	<input checked="" type="checkbox"/>	DC-BD2-WEB 1 VRF	<input checked="" type="checkbox"/>
EXTERNAL EPG 0 out of 2	<input type="checkbox"/>	DC-BD-APP 1 VRF	
CONTRACT 0 out of 4			
FILTER 0 out of 4			
VRF 0 out of 2			
BD 1 out of 3			

Import

Figure 49: Contract associated with DC-EPG2-WEB are imported

DC-EPG2-WEB [View Relationship](#)

Common Properties

Display Name *

DC-EPG2-WEB

Deployed Name: DC-EPG2-WEB

Description

Annotations

Key	Value
Create Annotations	

Contracts

Name	Type	Actions
DC-EPG-TO-L3Out-WEB-COM	provider	edit delete
DC-EPG-TO-EPG-WEB-COM	provider	edit delete
DC-EPG-TO-L3Out-WEB-COM	consumer	edit delete
DC-EPG-TO-EPG-WEB-COM	consumer	edit delete

Deploy Template-EPG2-BD2-Site1

Click on Deploy Template-EPG2-BD2-Site1 and select DC-SITE1

Figure 50: Add Fabrics to Template-EPG2-BD2-Site1

Add Fabrics To Template-EPG2-BD2-Site1 X

Name

DC-SITE1
6.0(SN)

DR-SITE2
6.0(SN)

[OK](#)

Figure 51: Deploy out Sync Templates

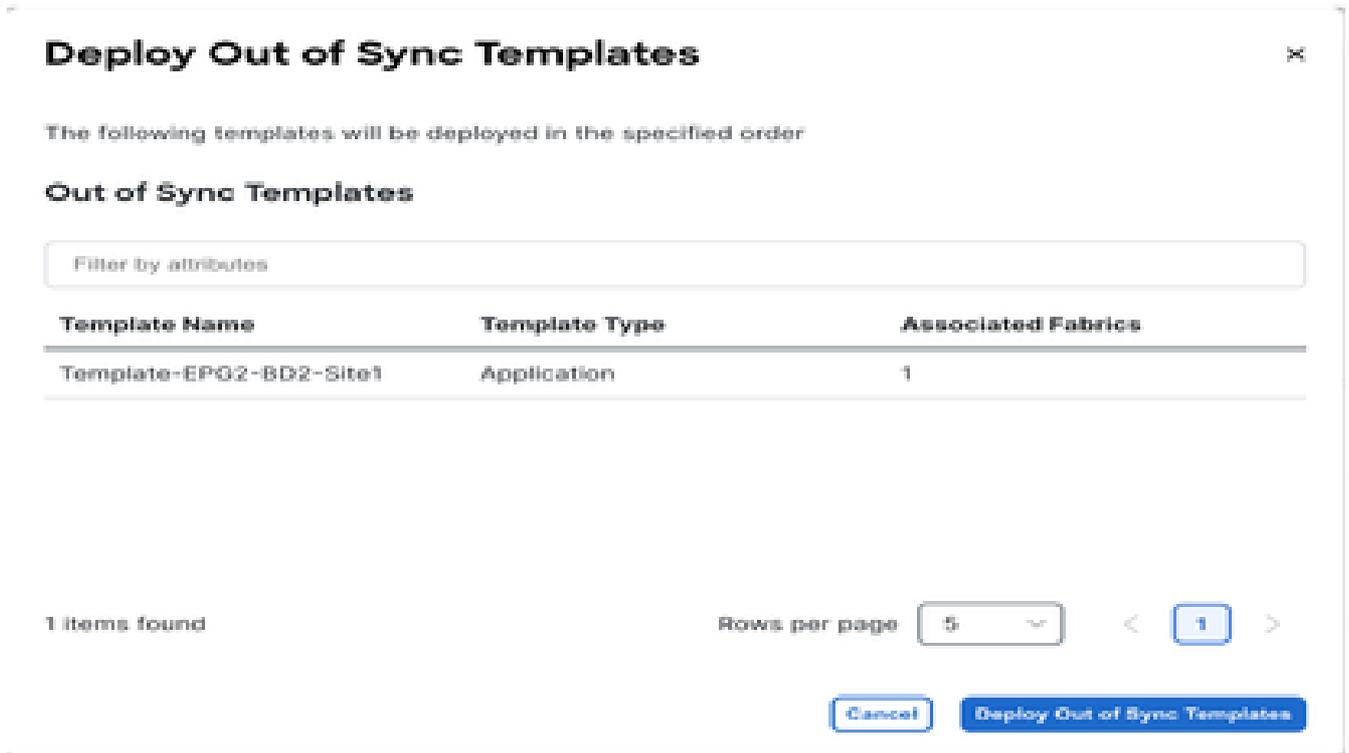


Figure 52: Deployment completed

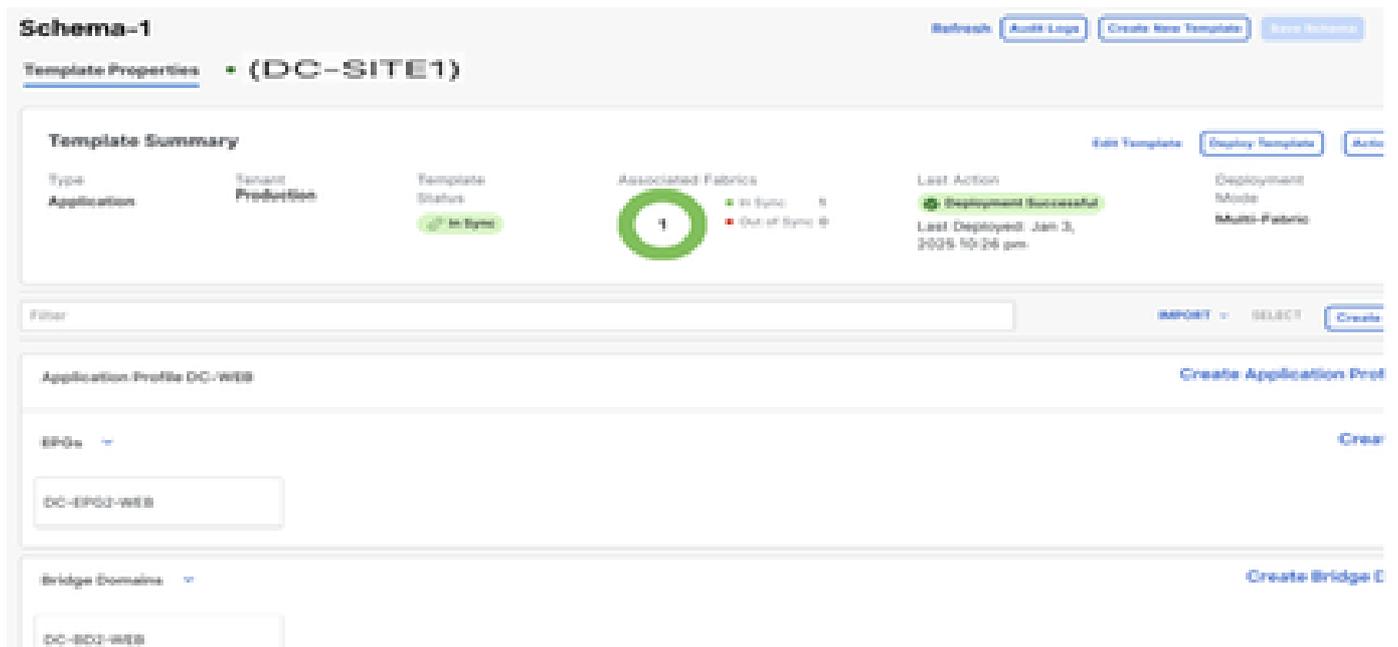
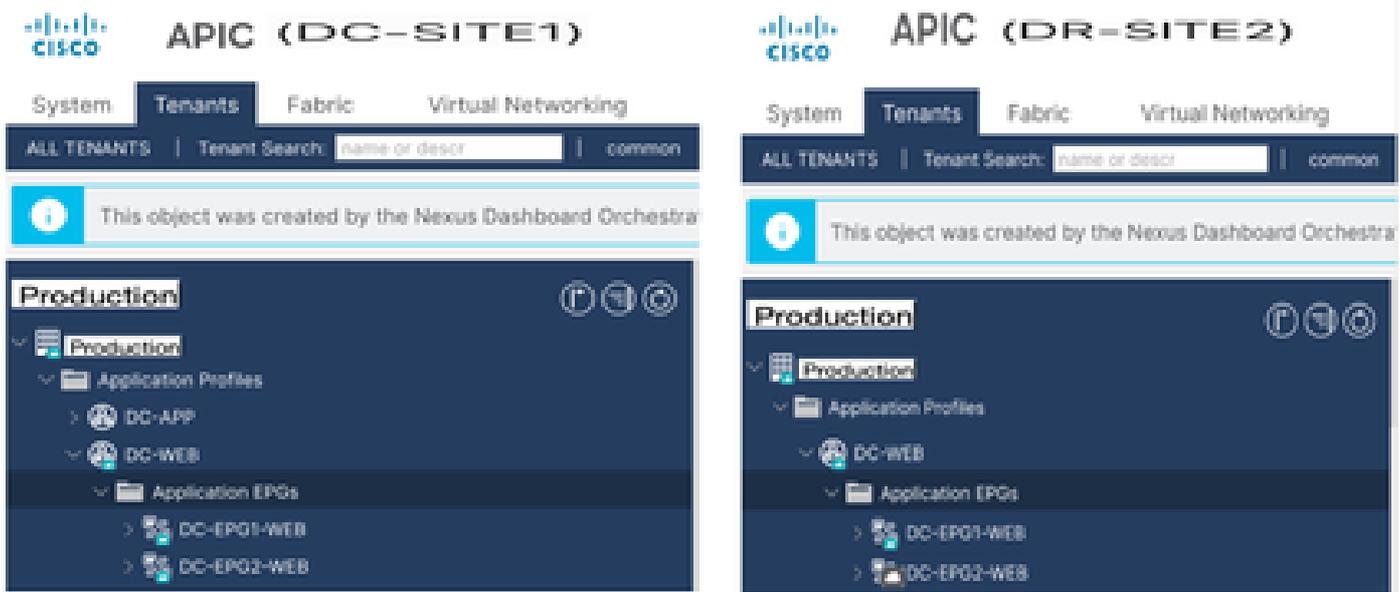


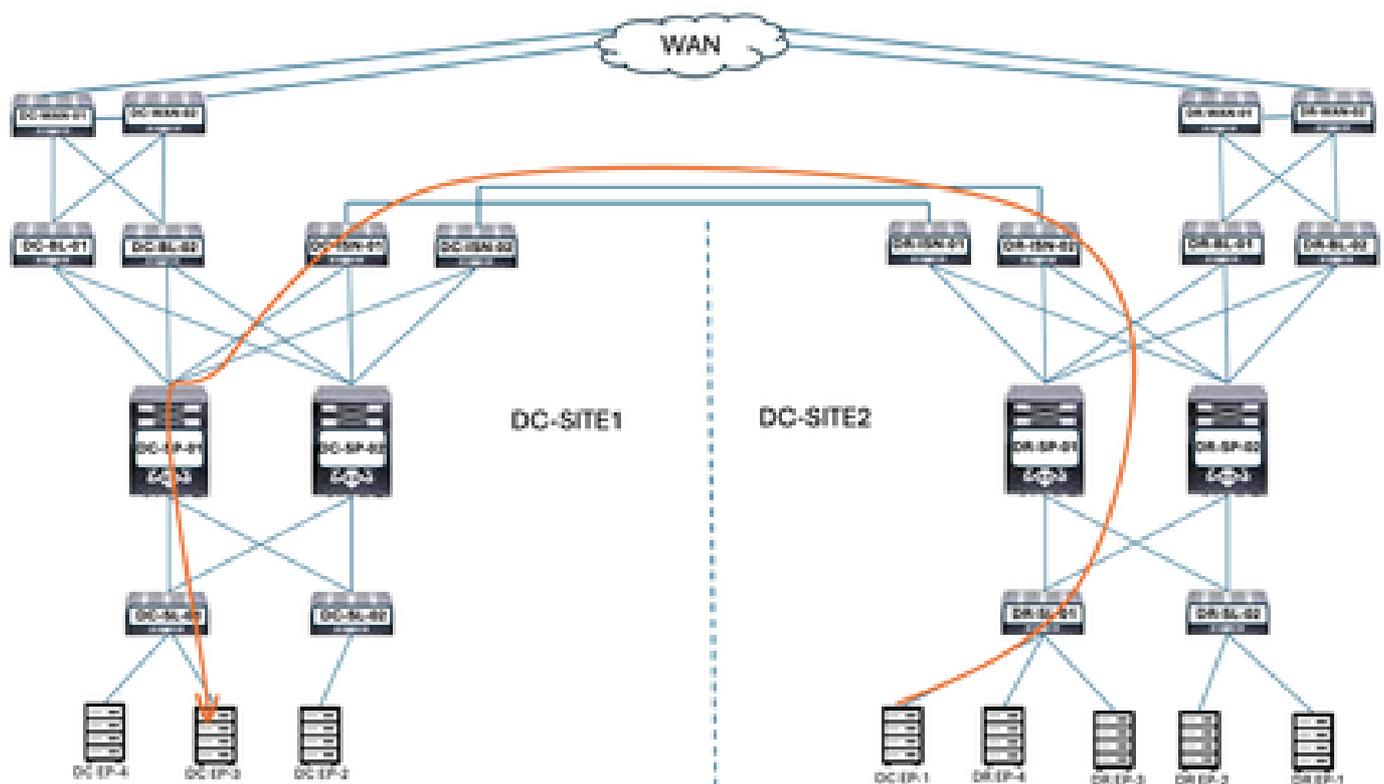
Figure 53: DC-EPG2-WEB is deployed in both sites

Shadow EPG for DC-EPG2-WEB created in DR-SITE2



Inter EPG Traffic Flow after EP-1 Migration

Figure 54: Inter EPG Traffic Flow after EP-1 Migration



Communication between DC-EP-1 and DC-EP-3 is Inter-EPG communication, as both Endpoints belongs to DC-EPG1-WEB and DC-EPG2-WEB respectively. This communication happens through DC ISN to DR ISN Multisite/Overlay Links.

Ping response between DC-EP-1 and DC-EP-3

Figure 55: Ping response between DC-EP-1 and DC-EP-3

```
# ping 192.168.20.10 source 192.168.10.10 vrf site-1
PING 192.168.20.10 (192.168.20.10) from 192.168.10.10: 56 data bytes
64 bytes from 192.168.20.10: icmp_seq=0 ttl=252 time=1.498 ms
64 bytes from 192.168.20.10: icmp_seq=1 ttl=252 time=1.255 ms
64 bytes from 192.168.20.10: icmp_seq=2 ttl=252 time=1.129 ms
64 bytes from 192.168.20.10: icmp_seq=3 ttl=252 time=1.084 ms
64 bytes from 192.168.20.10: icmp_seq=4 ttl=252 time=1.537 ms

--- 192.168.20.10 ping statistics ---
5 packets transmitted, 5 packets received, 0.00% packet loss
round-trip min/avg/max = 1.084/1.3/1.537 ms
```

Template-WEB-L3Out-Site1 Creation

Template-Web-L3Out-Site1 created inside Schema-1. DC-SITE1 added to template and Tenant-Production associated with the same Template. This is site specific template. This template used for DC-EP-1 Inter-VRF and Inter-DC communication.

Figure 56: Add application Template - Select ACI Multi-Cloud

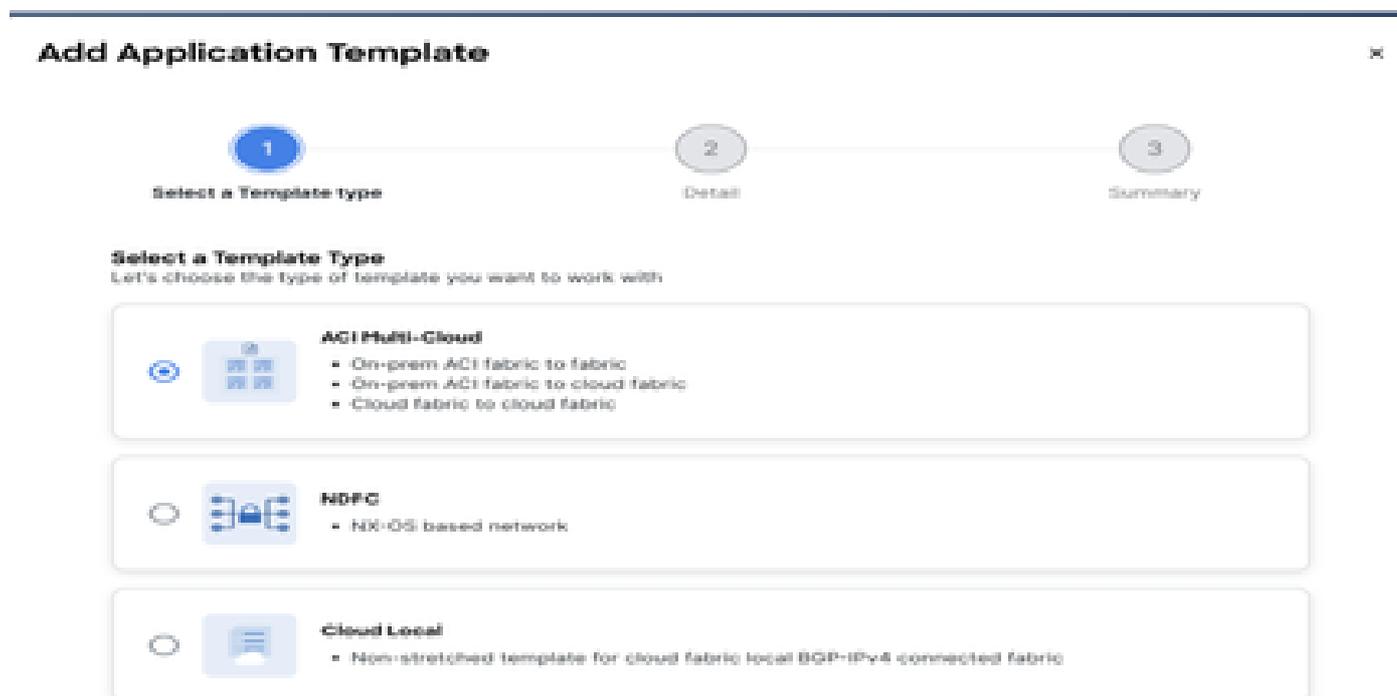


Figure 57: Add Template name Template-WEB-L3Out-Site1, Select Tenant Production

Add Application Template

Progress: 1 (Select a Template type) | 2 (Detail) | 3 (Summary)

Details

Now name the template and select a tenant.

ACI Multi-Cloud

- On-prem ACI fabric to fabric
- On-prem ACI fabric to cloud fabric
- Cloud fabric to cloud fabric

GENERAL

Display Name *

Internal Name: Template-WEB-L3Out-Site1 [Add Description](#)

Select a Tenant *

Deployment Mode *

Multi-Fabric

Autonomous

[Cancel](#) [Back](#) [Next](#)

Figure 58: Template-WEB-L3Out-Site1 Details

Add Application Template

Progress: 1 (Select a Template type) | 2 (Detail) | 3 (Summary)

Summary

ACI Multi-Cloud

- On-prem ACI fabric to fabric
- On-prem ACI fabric to cloud fabric
- Cloud fabric to cloud fabric

Details

Template name
Template-WEB-L3Out-Site1

Deployment Mode
Multi-Fabric

Tenant
Production

[Cancel](#) [Back](#) [Continue to template](#)

Import External EPG and L3Out in Template-WEB-L3Out-Site1

Import External EPG and L3Out in Template-WEB-L3Out-Site1

Figure 59: Click on Import and select DC-SITE1

Schema-1

Refresh Audit Logs Create New Template Save Schema

Template Properties

Template Summary

Edit Template Deploy Template **Act**

Type: Application Tenant: Production Template Status: Unassociated Associated Fabrics: 0 (0 In-Sync, 0 Out of Sync) Last Action: Updated Deployment Mode: Multi-Fabric

IMPORT SELECT Create

DC-SITE1
DR-SITE2

Figure 60: Select EXT-APP-EPG from DC-SITE1

Import from DC-SITE1

X

POLICY TYPE	SELECT TO IMPORT	IMPORT RELATIONS
APPLICATION PROFILE 0 out of 2	<input type="checkbox"/> EXT-APP-EPG ⚠ DC-APP-L3OUT 2 CONTRACT • 1 VRF • 1 L3OUT	
EPG 0 out of 3	<input checked="" type="checkbox"/> EXT-WEB-EPG ⚠ DC-WEB-L3OUT 2 CONTRACT • 1 VRF • 1 L3OUT	<input checked="" type="checkbox"/>
EXTERNAL EPG 1 out of 2		

Figure 61: Select DC-APP-L3Out from DC-SITE1

Import from DC-SITE1 ✕

APPLICATION PROFILE 0 out of 2

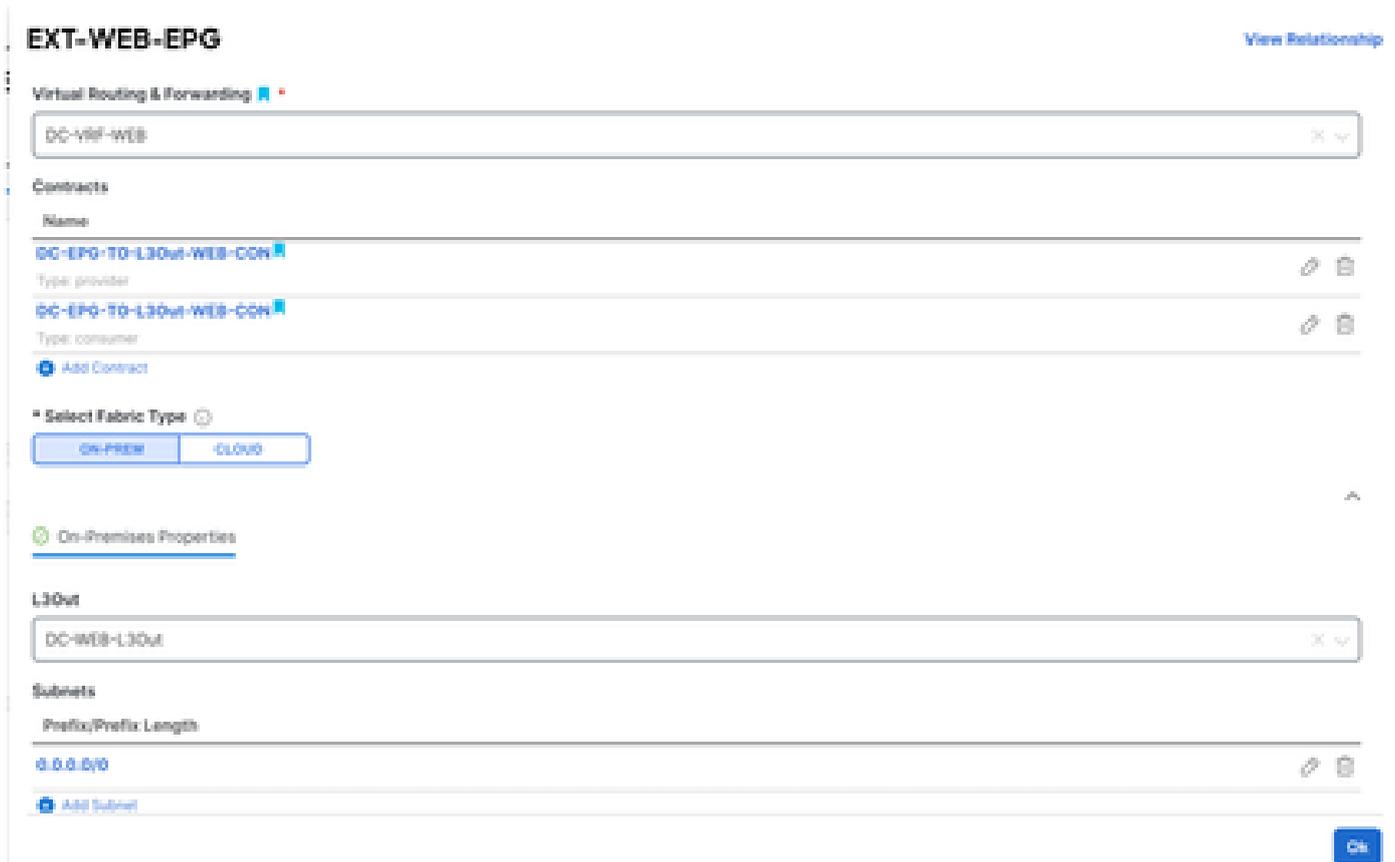
INFO L3Out import into Application Template will only import empty L3Out container and not complete config.

EPG 0 out of 3	  DC-APP-L3Out 1 VRF	
EXTERNAL EPG 1 out of 2	  DC-WEB-L3Out 1 VRF	<input checked="" type="checkbox"/>
CONTRACT 0 out of 4		
FILTER 0 out of 4		
VRF 0 out of 2		
BD 0 out of 3		
L3OUT 1 out of 2		

[Import](#)

Figure 62: Contract associated with EXT-WEB-EPG are imported

Shadow of EXT-WEB-EPG created in DR-SITE2 with applied DC contracts.



Deploy Template-WEB-L3Out-Site1

Click on Deploy Template-WEB-L3Out-Site1 and select DC-SITE1

Figure 63: Add Fabrics to Template-WEB-L3Out-Site1



Figure 64: Deploy out Sync Templates

Deploy Out of Sync Templates

X

The following templates will be deployed in the specified order

Out of Sync Templates

Filter by attributes

Template Name	Template Type	Associated Fabrics
Template-WEB-L3Out-Site1	Application	1

1 items found

Rows per page: 5 < 1 >

[Cancel](#) [Deploy Out of Sync Templates](#)

Figure 65: Deployment completed

Schema-1

Refresh Audit Logs Create New Template Save Schema

View Template-WEB-L3Out-Site1

Template Properties COX-ARAC-LAB-SITE1

Template Summary

Type	Tenant	Template Status	Associated Fabrics	Last Action	Deployment Mode
Application	Production	In Sync	1 In Sync 0 Out of Sync	Deployment Successful Last Deployed: Jan 3, 2025 11:15 pm	Multi-Fabric

Filter IMPORT - SELECT [Create](#)

External EPGs

[Create External](#)

EXT-WEB-EPG

L3Outs

[Create](#)

DC-WEB-L3Out

Verify the routes in DR Server Leaf for DC-VRF-WEB

Static routes installed in DR Server Leaf for DC-VRF-WEB.

Figure 66: Verify the routes in DR Server Leaf for DC-VRF-WEB

```

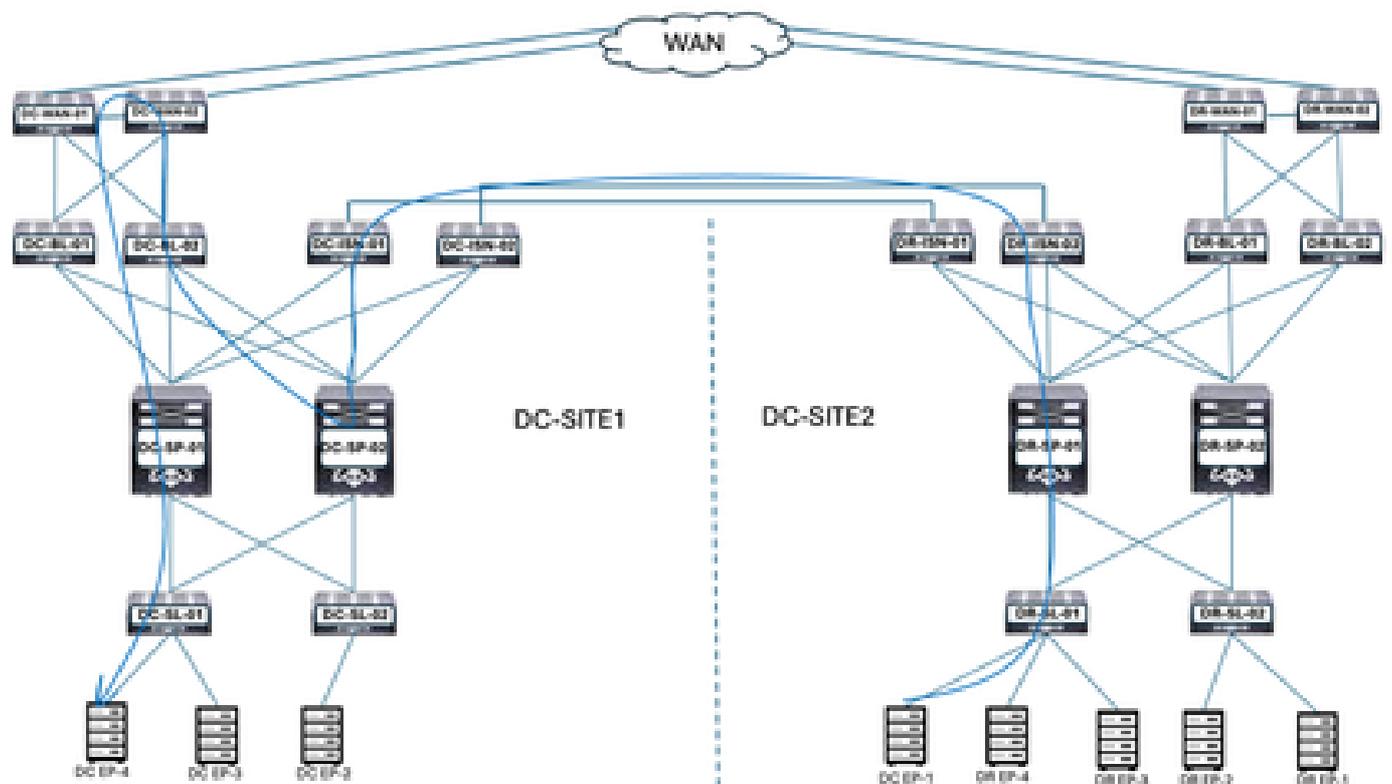
DR-SL-01# show ip route vrf Production:DC-VRF-WEB
IP Route Table for VRF "Production:DC-VRF-WEB"
'*' denotes best ucast next-hop
 '**' denotes best mcast next-hop
 '[x/y]' denotes [preference/metric]
 '%<string>' in via output denotes VRF <string>

0.0.0.0/0, ubest/mbest: 1/0
  *via 172.16.1.232%overlay-1, [200/0], 00:04:41, bgp-65002, internal, tag 65001, rvid: vxlan-2883589

```

Inter VRF Traffic Flow after DC-EP-1 Migration

Figure 67: Inter VRF Traffic Flow after DC-EP-1 Migration



DC-EP-1 uses DC-WEB-L3Out to communicate with DC-EP-4. The traffic flows from DR-ISP to DC-ISP Multisite Links, DC-ISP to DC-SP-01/DC-SP-02 and from DC-SP to DC-BL. DC-BL-01/DC-BL-02 forward the traffic to DC-WAN Switches for Inter-VRF routing.

Ping response between DC-EP-1 and DC-EP-4

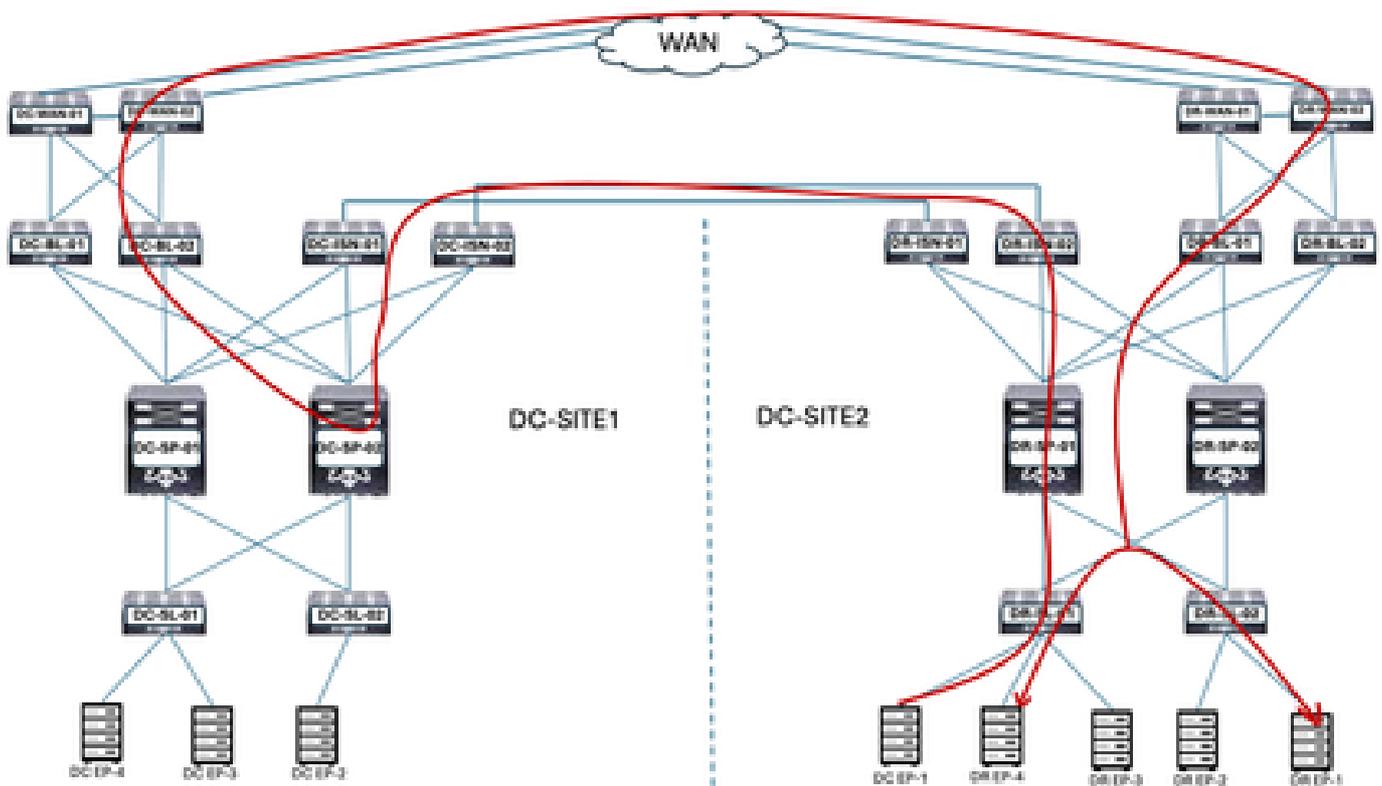
Figure 68: Ping response between DC-EP-1 and DC-EP-4

```
# ping 192.168.30.10 source 192.168.10.10 vrf site-1
PING 192.168.30.10 (192.168.30.10) from 192.168.10.10: 56 data bytes
64 bytes from 192.168.30.10: icmp_seq=0 ttl=249 time=1.781 ms
64 bytes from 192.168.30.10: icmp_seq=1 ttl=249 time=2.617 ms
64 bytes from 192.168.30.10: icmp_seq=2 ttl=249 time=1.288 ms
64 bytes from 192.168.30.10: icmp_seq=3 ttl=249 time=1.116 ms
64 bytes from 192.168.30.10: icmp_seq=4 ttl=249 time=1.135 ms

--- 192.168.30.10 ping statistics ---
5 packets transmitted, 5 packets received, 0.00% packet loss
round-trip min/avg/max = 1.116/1.587/2.617 ms
SITE2-EP1#
```

Inter DC Traffic Flow after DC-EP-1 Migration

Figure 69: Inter DC Traffic Flow after DC-EP-1 Migration



DC-EP-1 uses DC-WEB-L3Out to communicate with DR Endpoints. The traffic flows from DR-ISP to DC-ISP Multisite Links, DC-ISP to DC-SP-01/DC-SP-02 and from DC-SP to DC-BL. DC-BL-01/DC-BL-02 forward the traffic to DC-WAN Switches for DR Endpoints.

Ping response between DC-EP-1 and DR-EPs

Figure 70: Ping response between DC-EP-1 and DR-EPs

```

SITE2-EP1# ping 192.168.11.10 source 192.168.10.10 vrf site-1
PING 192.168.11.10 (192.168.11.10) from 192.168.10.10: 56 data bytes
Request 0 timed out
64 bytes from 192.168.11.10: icmp_seq=1 ttl=249 time=2.245 ms
64 bytes from 192.168.11.10: icmp_seq=2 ttl=249 time=1.893 ms
64 bytes from 192.168.11.10: icmp_seq=3 ttl=249 time=1.725 ms
64 bytes from 192.168.11.10: icmp_seq=4 ttl=249 time=1.991 ms

--- 192.168.11.10 ping statistics ---
5 packets transmitted, 4 packets received, 20.00% packet loss
round-trip min/avg/max = 1.725/1.908/2.245 ms
SITE2-EP1#
SITE2-EP1#
SITE2-EP1# ping 192.168.11.20 source 192.168.10.10 vrf site-1
PING 192.168.11.20 (192.168.11.20) from 192.168.10.10: 56 data bytes
Request 0 timed out
64 bytes from 192.168.11.20: icmp_seq=1 ttl=249 time=1.714 ms
64 bytes from 192.168.11.20: icmp_seq=2 ttl=249 time=1.691 ms
64 bytes from 192.168.11.20: icmp_seq=3 ttl=249 time=1.245 ms
64 bytes from 192.168.11.20: icmp_seq=4 ttl=249 time=1.292 ms

--- 192.168.11.20 ping statistics ---
5 packets transmitted, 4 packets received, 20.00% packet loss
round-trip min/avg/max = 1.691/1.313/1.714 ms
SITE2-EP1#
SITE2-EP1#
SITE2-EP1# ping 192.168.21.10 source 192.168.10.10 vrf site-1
PING 192.168.21.10 (192.168.21.10) from 192.168.10.10: 56 data bytes
64 bytes from 192.168.21.10: icmp_seq=0 ttl=249 time=1.554 ms
64 bytes from 192.168.21.10: icmp_seq=1 ttl=249 time=1.163 ms
64 bytes from 192.168.21.10: icmp_seq=2 ttl=249 time=1.178 ms
64 bytes from 192.168.21.10: icmp_seq=3 ttl=249 time=1.255 ms
64 bytes from 192.168.21.10: icmp_seq=4 ttl=249 time=1.261 ms

--- 192.168.21.10 ping statistics ---
5 packets transmitted, 5 packets received, 0.00% packet loss
round-trip min/avg/max = 1.163/1.262/1.554 ms
SITE2-EP1#
SITE2-EP1#
SITE2-EP1# ping 192.168.31.10 source 192.168.10.10 vrf site-1
PING 192.168.31.10 (192.168.31.10) from 192.168.10.10: 56 data bytes
64 bytes from 192.168.31.10: icmp_seq=0 ttl=249 time=1.51 ms
64 bytes from 192.168.31.10: icmp_seq=1 ttl=249 time=1.31 ms
64 bytes from 192.168.31.10: icmp_seq=2 ttl=249 time=1.263 ms
64 bytes from 192.168.31.10: icmp_seq=3 ttl=249 time=1.278 ms
64 bytes from 192.168.31.10: icmp_seq=4 ttl=249 time=1.247 ms

--- 192.168.31.10 ping statistics ---
5 packets transmitted, 5 packets received, 0.00% packet loss
round-trip min/avg/max = 1.247/1.321/1.51 ms

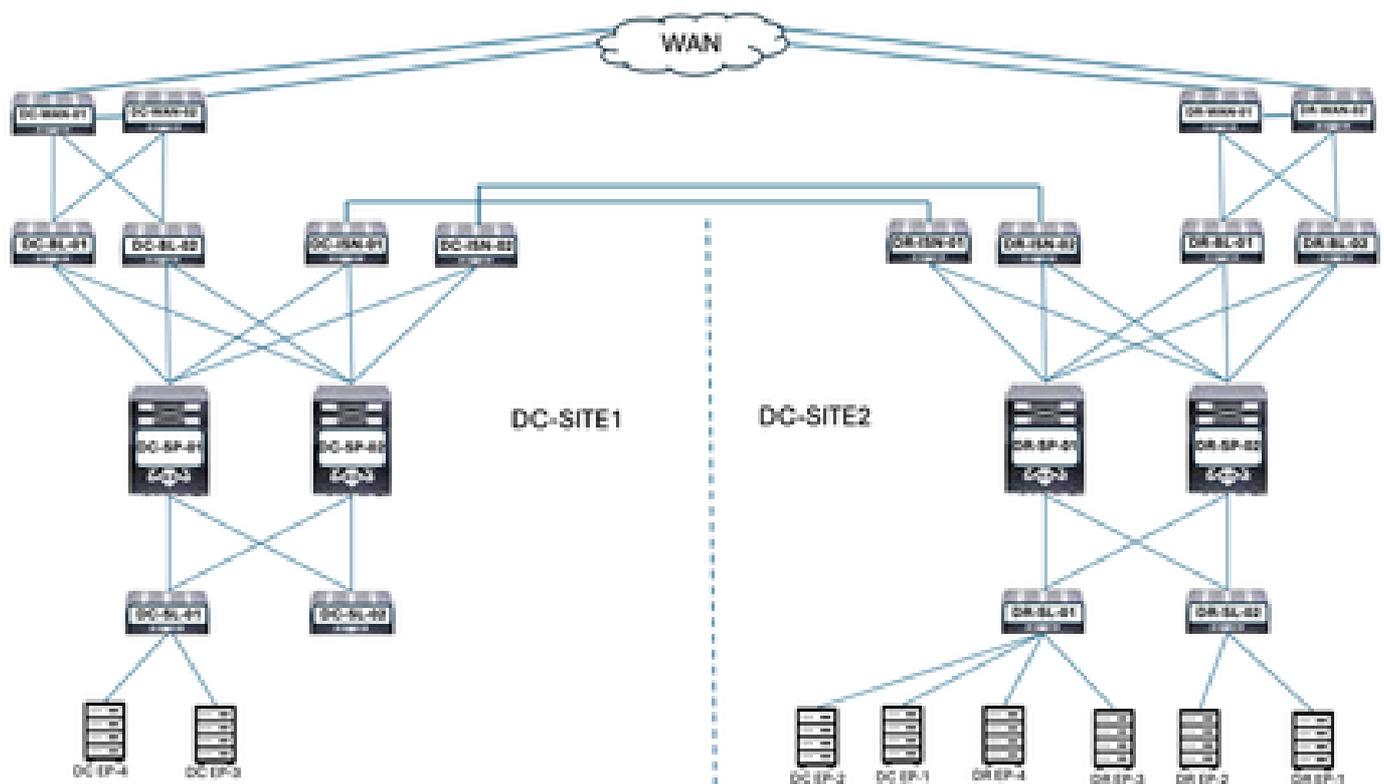
```

Migrate remaining Endpoints

Physical Design after remaining Endpoints Migration

After migrating the remaining Endpoints from DC to DR DC-EPG1-WEB, physical diagram changed accordingly.

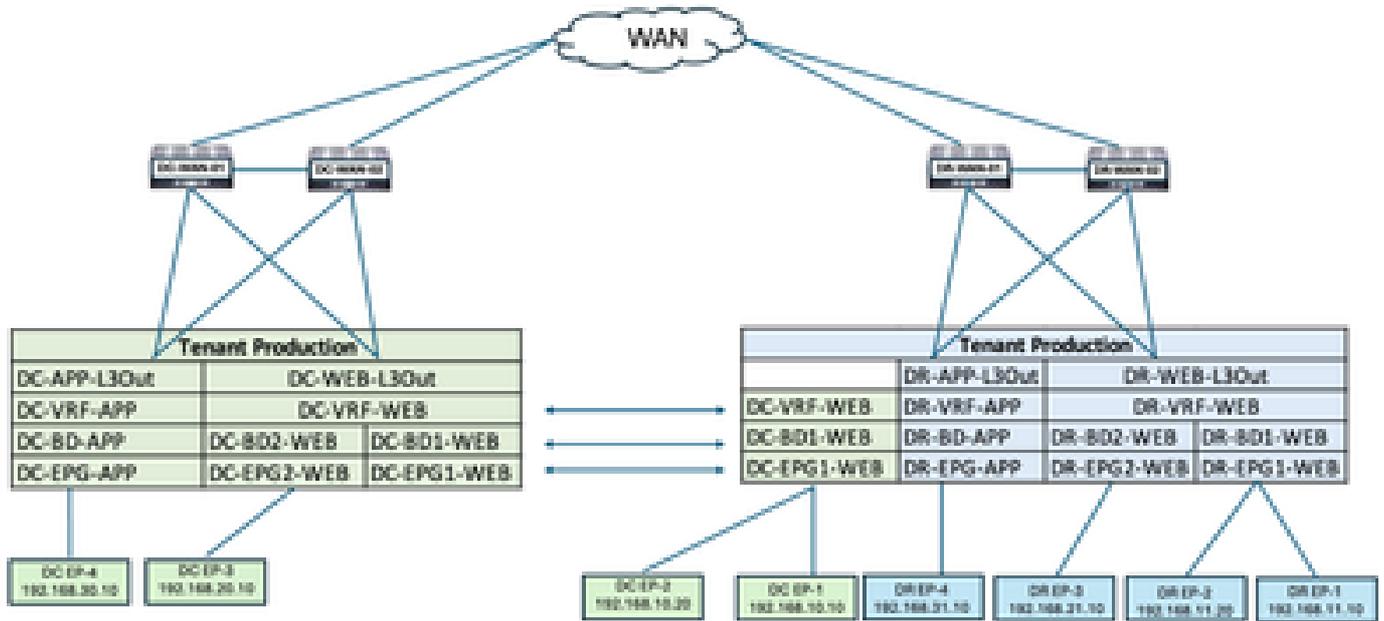
Figure 71: Physical Design after all Endpoints Migration from DC to DR



Logical Design after remaining Endpoints Migration

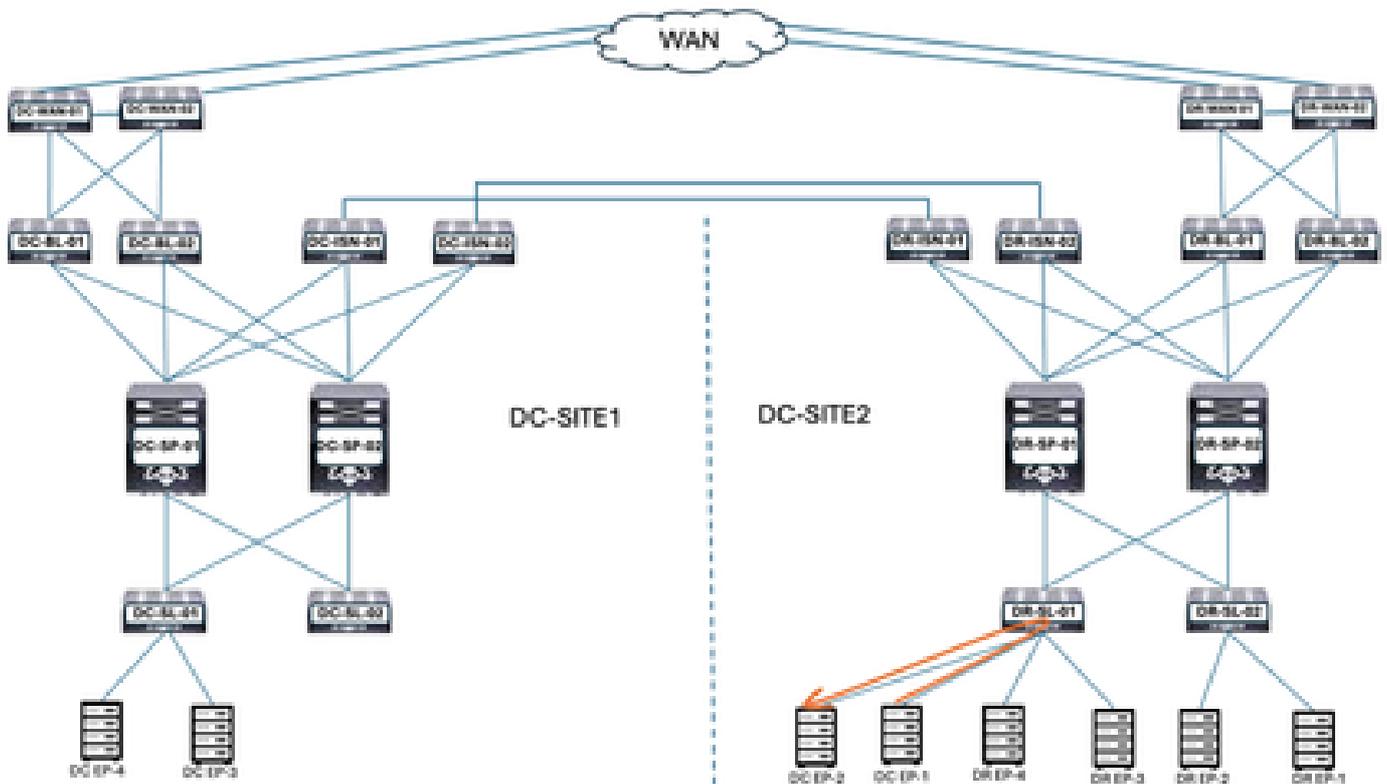
DC-EPG1-WEB, DC-BD1-WEB and DC-VRF-WEB are already stretched between DC and DR Sites. DC remaining Endpoints migrated from DC to DR Site.

Figure 72: Logical Design after remaining Endpoint Migration



Intra EPG Traffic Flow after remaining Endpoint Migration

Figure 73: Intra EPG Traffic Flow after remaining Endpoint Migration



Communication between DC-EP-1 and DC-EP-2 is Intra-EPG communication, as both Endpoints belongs to

DC-EPG1-WEB. This communication happens directly within DR Site.

Inter EPG, Inter VRF and Inter DC traffic flows remain similar to DC-EP-1 migration.

Undeploy Template-EPG1-BD1-Stretched from DC Site

All the Endpoints are migrated from DC to DR site for DC-EPG1-WEB. DC-EPG1-WEB and DC-BD1-WEB are not required in DC Site. Undeploy the Template-EPG1-BD1-Stretched from DC Site, this deletes the EPG and BD from Site-1.

Figure 74: Click on Undeploy Template

The screenshot displays the 'Schema-1' configuration page for a template named 'Template-EPG1-BD1-Stretched'. The interface includes a top navigation bar with buttons for 'Refresh', 'Audit Logs', 'Create New Template', and 'View Schema'. Below the navigation, there are tabs for 'Template Properties', 'DC-SITE1', and 'DR-SITE2'. The main content area is divided into several sections: 'Template Summary' with fields for Type (Application), Tenant (Production), Template Status (In Sync), Associated Fabrics (2), and Last Action (Deployment); a 'Filter' input field; 'Application Profile (DC-WEB)'; 'EPGs' with a list containing 'DC-EPG1-WEB'; and 'Bridge Domains' with a 'Create Bridge E' button. A context menu is open over the 'Associated Fabrics' section, listing actions such as 'Add/Remove Fabrics', 'Disassociate Fabric', 'Clone Template', 'Undeploy Template', 'Delete Template', 'View Deployed Configuration', 'View Deployment Dependencies', 'View Deployment Plan', 'Reconcile Configuration Drifts', 'View Version History', 'Roll Back Version', and 'Tag'.

Figure 75: Select DC-SITE1 and Click undeploy

Undeploy Template-EPG1-BD1-Stretched

Warning: Undeploying this template will permanently remove applied policies from selected fabric. Review and take measure to prevent any functionality loss.

Fabric: **DC-SITE1**

Plan: **DC-SITE1**

Legend: ● Created ● Deleted ● Modified ● Existing ● Shadow

[View Payload](#) [Download Payload](#)



[Undeploy](#)

Dissociate Template-EPG1-BD1-Stretched from DC Site

This step dissociates the Template-EPG1-BD-Stretched from DC Site.

Figure 76: Click on Dissociate Template

Schema-1 [Refresh](#) [Audit Logs](#) [Create New Template](#) [View Schema](#)

View **Template-EPG1-BD1-Stretched**

Template Properties: **DC-SITE1** **DR-SITE2**

Template Summary

Type: Application	Tenant: Production	Template Status: ● Out of Sync	Associated Fabric: ● In Sync: 1 ● Out of Sync: 1	Last Action: ● Undeployed
-------------------	--------------------	--	--	--

Last Deployed: 2025-05-11 pm

- Undeploy Template
- Dissociate Fabric
- Close Template
- Delete Template
- View Deployed Configuration
- View Deployment Dependencies
- View Deployment Plan
- Reconcile Configuration Drifts
- View Version History
- Roll Back Version
- Tag

[Create Bridge E](#)

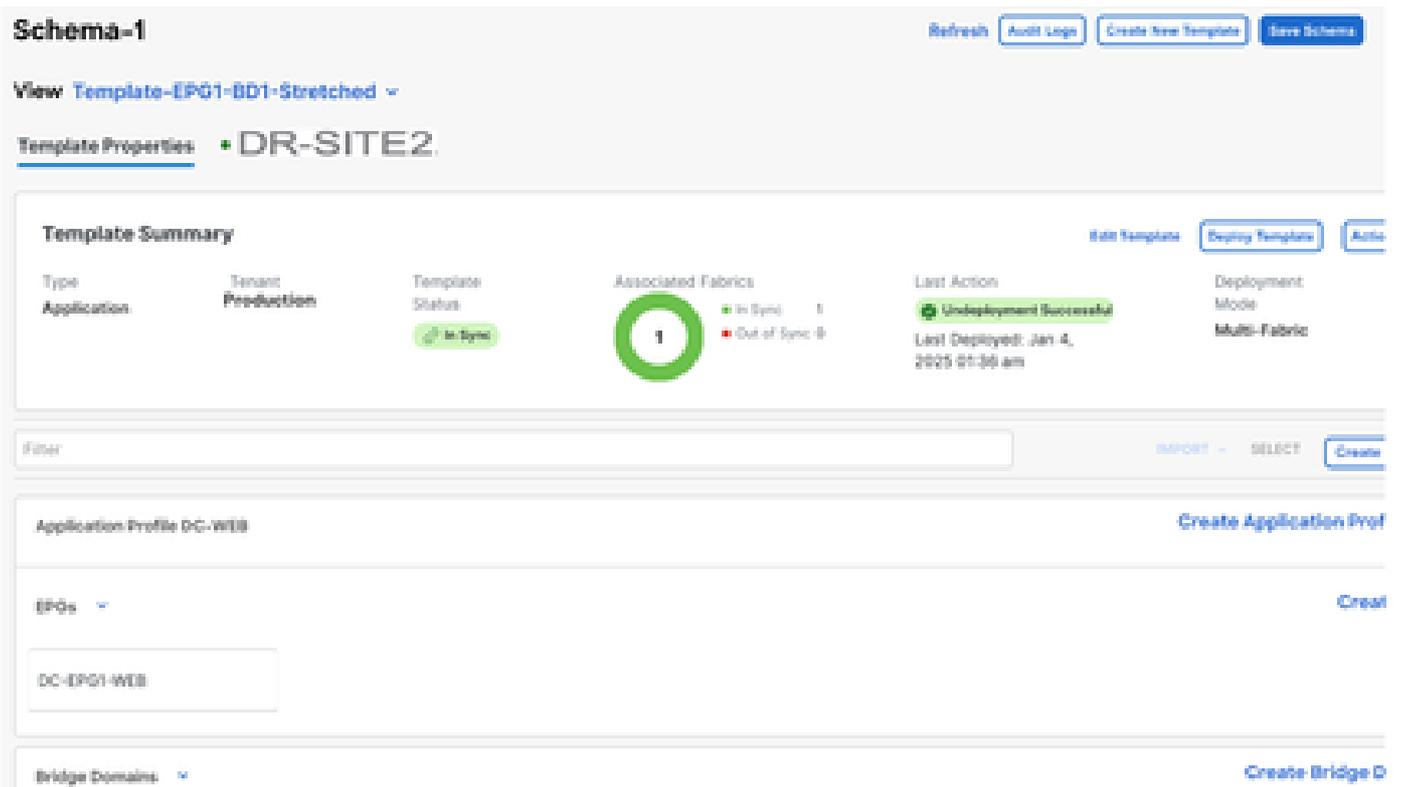
Figure 77: Uncheck DC-SITE1

Add Fabrics To Template-EPG1-BD1-Stretched

34



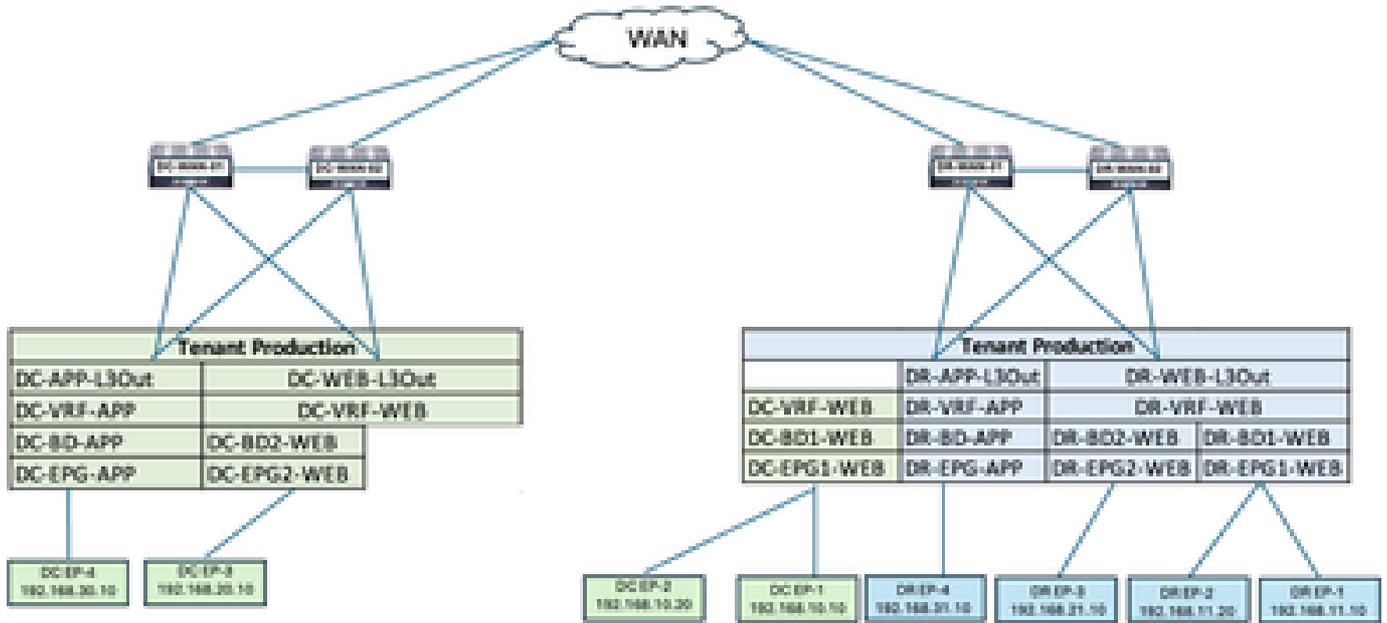
Figure 78: DC-SITE2 part of Template-EPG1-BD1-Stretched



Logical Design after Undeploying the Template-EPG1-BD1-Stretched from DC

DC-EPG1-WEB and DC-BD1-WEB is not part of DC Site after Undeploying the Template.

Figure 79: Logical Design after Undeploying the Template



Template-VRF-Contract-Site2 Creation

Template-VRF-Contract-Site2 created inside Schema-1. DR-SITE2 added to Template and Tenant-Production associated with the same Template. This is site specific template. This template used to associate VRF and Contract from DR site for DC-EPG1-WEB and DC-BD1-WEB.

Figure 80: Add application Template - Select ACI Multi-Cloud

Add Application Template

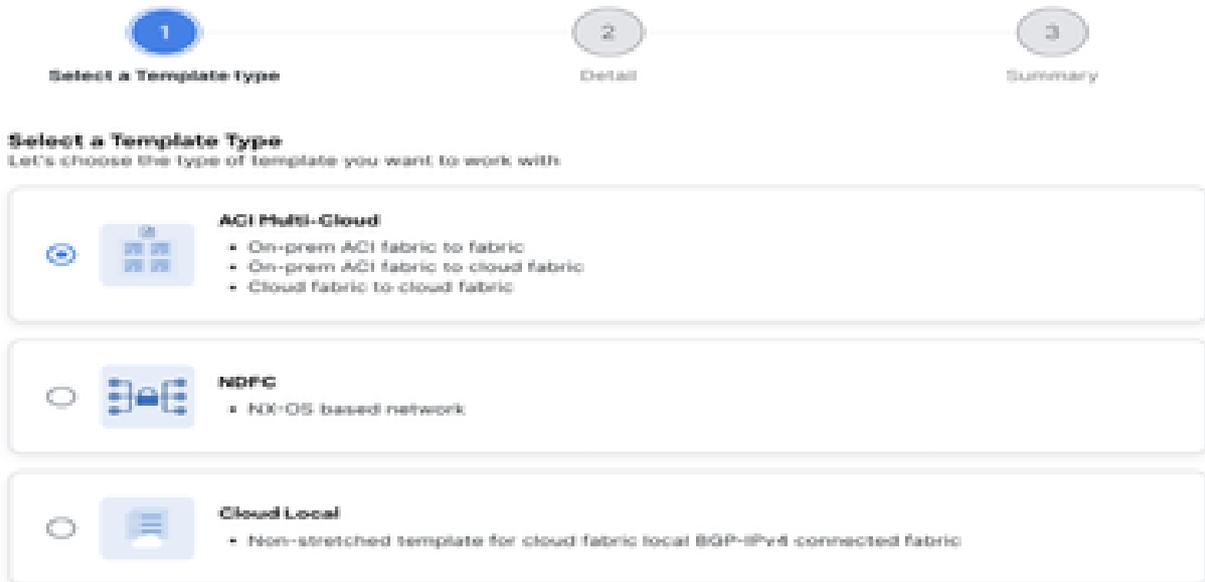


Figure 81: Add Template name Template-VRF-Contract-Site2, Select Tenant Production

Add Application Template ✕

1 → 2 → 3

Select a Template type Detail Summary

Details

Now name the template and select a tenant

2

2

2

ACI Multi-Cloud

- On-prem ACI fabric to fabric
- On-prem ACI fabric to cloud fabric
- Cloud fabric to cloud fabric

GENERAL

Display Name *

Internal Name: Template-VRF-Contract-Site2.

[Add Description](#)

Select a Tenant *

✕ ▾

Deployment Mode ⓘ

Multi-Fabric

Autonomous

[Cancel](#)[Back](#) [Next](#)

Figure 82: Template-VRF-Contract-Site2 Details

Add Application Template



Summary



ACI Multi-Cloud

- On-prem ACI fabric to fabric
- On-prem ACI fabric to cloud fabric
- Cloud fabric to cloud fabric

Details

Template name
Template-VRF-Contract-Site2

Deployment Mode
Multi-Fabric

Tenant
Production

Cancel

Back

Continue to template

Import VRF-Contract in Template-VRF-Contract-Site2

Import DR-VRF-WEB and DR-VRF-WEB-Contract from DR-SITE2.

Figure 83: Click on Import and select DR-SITE2

Schema-1 Refresh Audit Logs Create New Template Save Schema

View **Template-VRF-Contract-Site2** ▾

Template Properties

Template Summary Edit Template Deploy Template Actions

Type Application	Tenant Production	Template Status Unassociated	Associated Fabrics <div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 2px solid gray; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin-right: 10px;">0</div> <div> ■ In Sync: 0 ■ Out of Sync: 0 </div> </div>	Last Action Updated	Deployment Mode Multi-Fabric
---------------------	----------------------	--	--	-------------------------------------	---------------------------------

IMPORT ▾ SELECT Create ID

DC-SITE1
DR-SITE2

Figure 84: Select Contract from DR-SITE2

Import from DC-SITE1 ✕

PROPERTY TYPE		
APPLICATION PROFILE 0 out of 3	<input type="checkbox"/>	DC-EPG-TO-EPG-WEB-CON 1 FILTER
EPG 0 out of 4	<input type="checkbox"/>	DC-EPG-TO-L3Out-WEB-CON 1 FILTER
EXTERNAL EPG 0 out of 4	<input type="checkbox"/>	DR-EPG-TO-EPG-APP-CON 1 FILTER
CONTRACT 2 out of 6	<input checked="" type="checkbox"/>	DR-EPG-TO-EPG-WEB-CON 1 FILTER <input checked="" type="checkbox"/>
FILTER 2 out of 6	<input type="checkbox"/>	DR-EPG-TO-L3Out-APP-CON 1 FILTER
VRF 0 out of 4	<input checked="" type="checkbox"/>	DR-EPG-TO-L3Out-WEB-CON 1 FILTER <input checked="" type="checkbox"/>
BD 0 out of 4		
L3OUT 0 out of 4		

Import

Figure 85: Select Filter from DR-SITE2

Import from DC-SITE1

X

APPLICATION PROFILE	0 out of 3	<input type="checkbox"/>	DC-EPG-TO-EPG-WEB-FIL	
EPG	0 out of 4	<input type="checkbox"/>	DC-EPG-TO-L3Out-WEB-FIL	
EXTERNAL EPG	0 out of 4	<input type="checkbox"/>	DR-EPG-TO-EPG-APP-FIL	
CONTRACT	2 out of 6	<input checked="" type="checkbox"/>	DR-EPG-TO-EPG-WEB-FIL	
FILTER	2 out of 6	<input type="checkbox"/>	DR-EPG-TO-L3Out-APP-FIL	
VRF	0 out of 4	<input checked="" type="checkbox"/>	DR-EPG-TO-L3Out-WEB-FIL	
BD	0 out of 4			
L3OUT	0 out of 4			

Import

Figure 86: Select VRF from DR-SITE2

Import from DC-SITE1

✕

APPLICATION PROFILE	0 out of 3	<input type="checkbox"/>	DC-VRF-APP
EPG	0 out of 4	<input type="checkbox"/>	DC-VRF-WEB
EXTERNAL EPG	0 out of 4	<input type="checkbox"/>	DR-VRF-APP
CONTRACT	2 out of 6	<input checked="" type="checkbox"/>	DR-VRF-WEB
FILTER	2 out of 6		
VRF	1 out of 4		
BD	0 out of 4		
L3OUT	0 out of 4		

Import

Figure 87: Template-WEB-VRF-Contract-Site2 with VRF/Contract information

Schema-1 Refresh Audit Logs Create New Template Save Schema

1 Out of Sync 1

Filter IMPORT SELECT Create

Contracts Create Co

DR-EPG-TO-EPG-WEB-CON DR-EPG-TO-L3OUT-WEB-CON

VRFs Crea

DR-VRF-WEB

Filters Creab

DR-EPG-TO-EPG-WEB-FIL DR-EPG-TO-L3OUT-WEB-FIL

Deploy Template-VRF-Contract-Site2

Click on Deploy Template-VRF-Contract-Site2 and select DR-SITE2

Figure 88: Add Fabrics to Template-VRF-Contract-Site2

Add Fabrics To Template-VRF-Site2

Name

● DC-SITE1
6.0(SN)

● DR-SITE2
6.0(SN)

Figure 89: Deploy out Sync Templates

Deploy Out of Sync Templates

The following templates will be deployed in the specified order

Out of Sync Templates

Filter by attributes

Template Name	Template Type	Associated Fabrics
Template-VRF-Contract-Site2	Application	1

1 items found

Rows per page

5

<

1

>

Cancel

Deploy Out of Sync Templates

Figure 90: Deployment completed

Schema-1 Refresh Audit Logs Create New Template Save Schema

Type	Tenant	Template	Associated Fabrics	Last Action	Deployment
Application	Production	Status In Sync	1 In Sync 0 Out of Sync	Deployment Successful Last Deployed: Jan 4, 2025 01:57 am	Mode Multi-Fabric

Filter REPORT SELECT Create

Contracts Create Co

- DR-EPG-TO-EPG-WEB-CON
- DR-EPG-TO-L3Out-WEB-CON

Vrfs Crea

- DR-VRF-WEB

Filters Creab

- DR-EPG-TO-EPG-WEB-FIL
- DR-EPG-TO-L3Out-WEB-FIL

Associate DR-VRF-WEB to DC-BD1-WEB

Associate DR-VRF-WEB to DC-BD1-WEB from Template-EPG1-BD1-Stretched which was created earlier. DC-BD1-WEB is part of DR-SITE2.

Figure 91: Click on Template-EPG1-BD1-Stretched

Schema-1 Refresh Audit Logs Create New Template Save Schema

View Template-EPG1-BD1-Stretched

Template Properties DR-SITE2

Template Summary Edit Template Deploy Template Auto

Type	Tenant	Template	Associated Fabrics	Last Action	Deployment
Application	Production	Status In Sync	1 In Sync 0 Out of Sync	Undeployment Successful Last Deployed: Jan 4, 2025 01:36 am	Mode Multi-Fabric

Filter REPORT SELECT Create

Application Profile DC-WEB Create Application Prof

EPGs Creat

- DC-EPG1-WEB

Bridge Domains Create Bridge D

Figure 92: Associate DR-VRF-WEB to DC-BD1-WEB

DC-BD1-WEB

[View Relationship](#)

Annotations

Key	Value
Create Annotations	

Properties

[On-Premises Properties](#)

Virtual Routing & Forwarding

L2 Stretch

Intra-site BUM Traffic Allow

Optimize WAN Bandwidth

Unicast Routing

L3 Multicast

OK

Apply DR-Contracts to DC-EPG1-WEB

Apply DR-Contract to DC-EPG1-WEB which uses DR contracts for the communication from DC-EPG1-WEB for Inter-DC, Inter-VRF and Inter-EPG. DC-EPG1-WEB is part of DR-SITE2

Figure 93: Delete DC-Contracts from DC-EPG1-WEB

DC-EPG1-WEB

[View Relationship](#)

Common Properties

Display Name

Deployed Name: DC-EPG1-WEB

Description

Annotations

Key	Value
Create Annotations	

Contracts

Name

DC-EPG-TG-L3Out-WEB-COM	Type: provider	Edit Delete
DC-EPG-TG-EPG-WEB-COM	Type: provider	Edit Delete
DC-EPG-TG-L3Out-WEB-COM	Type: consumer	Edit Delete
DC-EPG-TG-EPG-WEB-COM	Type: consumer	Edit Delete

[Add Provider](#)

Figure 94: Add DR-Contracts in DC-EPG1-WEB

DC-EPG1-WEB

[View Relationship](#)

Display Name

DC-EPG1-WEB

Deployed Name: DC-EPG1-WEB

Description

Annotations

Key	Value
-----	-------

[Create Annotations](#)

Contracts

Name	Type	Actions
DR-EPG-TD-EPG-WEB-COM	consumer	Edit Delete
DR-EPG-TD-EPG-WEB-COM	provider	Edit Delete
DR-EPG-TD-L3Ovs-WEB-COM	consumer	Edit Delete
DR-EPG-TD-L3Ovs-WEB-COM	provider	Edit Delete

[Add Contract](#)

EPG Type

Application Service

OK

Figure 95: Template-EPG1-BD1-Stretched information

Schema-1

[Refresh](#)

[Audit Logs](#)

[Create New Template](#)

[Save Schema](#)

Template Properties **DR-SITE2**

Template Summary

[Edit Template](#)

[Deploy Template](#)

[Actions](#)

Type
Application

Tenant
Production

Template Status
Out of Sync

Associated Fabrics
1 In Sync 0
Out of Sync 1

Last Action
Updated
Last Deployed: Jan 4, 2025 01:52 am

Deployment Mode
Multi-Fabric

Filter

IMPORT - SELECT

[Create O](#)

Application Profile DC-WEB

[Create Application Profile](#)

EPGs

[Create](#)

DC-EPG1-WEB

Bridge Domains

[Create Bridge Do](#)

DC-BD1-WEB

Figure 96: Deploy out Sync Templates

Deploy Out of Sync Templates

x

The following templates will be deployed in the specified order

Out of Sync Templates

Filter by attributes

Template Name	Template Type	Associated Fabrics
Template-EPG1-BD1-Stretched	Application	1

1 items found

Rows per page

5

<

1

>

Cancel

Deploy Out of Sync Templates

Figure 97: Deployment completed

Schema-1 Refresh Audit Logs Create New Template Edit Schema

Template Summary Edit Template Deploy Template Actions

Type Application	Tenant Production	Template Status In Sync	Associated Fabrics 1	Last Action Deployment Successful	Deployment Mode Multi-Fabric
			● In Sync: 1	Last Deployed: Jan 4, 2025 02:02 am	
			● Out of Sync: 0		

Filter IMPORT SELECT Create

Application Profile DC-WEB Create Application Prof

EPOs Create

DC-EP01-WEB

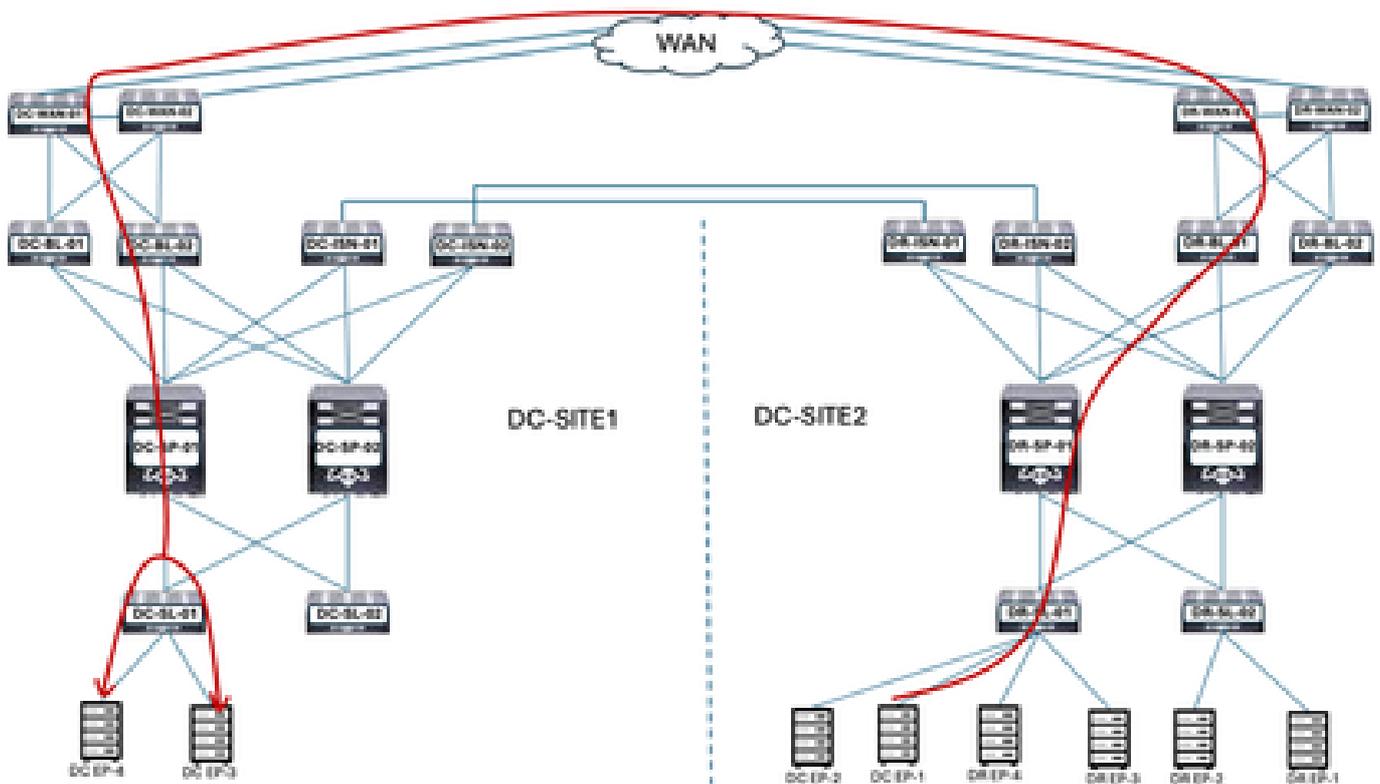
Bridge Domains Create Bridge E

DC-BD1-WEB

DC-Endpoint-1 Traffic Flow

DC-Endpoint-1 starts using DR-L3Out-WEB for the communication with DC Endpoints. This communication requires necessary routing changes on WAN Switches.

Figure 98: DC-Endpoint-1 Traffic Flow



Ping response between DC-EP-1 and DC/DR-EPs

Figure 99: Ping response between DC-EP-1 and DC-EP-2

```
: # ping 192.168.30.10 source 192.168.10.10 vrf site-1
PONG 192.168.30.10 (192.168.30.10) from 192.168.10.10: 56 data bytes
64 bytes from 192.168.30.10: icmp_seq=0 ttl=249 time=2.486 ms
64 bytes from 192.168.30.10: icmp_seq=1 ttl=249 time=1.85 ms
64 bytes from 192.168.30.10: icmp_seq=2 ttl=249 time=1.063 ms
64 bytes from 192.168.30.10: icmp_seq=3 ttl=249 time=1.08 ms
64 bytes from 192.168.30.10: icmp_seq=4 ttl=249 time=0.987 ms

--- 192.168.30.10 ping statistics ---
5 packets transmitted, 5 packets received, 0.00% packet loss
round-trip min/avg/max = 0.987/1.317/2.486 ms
SITE2-EP1#
SITE2-EP1# ping 192.168.11.10 source 192.168.10.10 vrf site-1
PING 192.168.11.10 (192.168.11.10) from 192.168.10.10: 56 data bytes
Request 0 timed out
64 bytes from 192.168.11.10: icmp_seq=1 ttl=252 time=1.439 ms
64 bytes from 192.168.11.10: icmp_seq=2 ttl=252 time=0.993 ms
64 bytes from 192.168.11.10: icmp_seq=3 ttl=252 time=1.615 ms
64 bytes from 192.168.11.10: icmp_seq=4 ttl=252 time=1.187 ms

--- 192.168.11.10 ping statistics ---
5 packets transmitted, 4 packets received, 20.00% packet loss
round-trip min/avg/max = 0.993/1.208/1.615 ms
SITE2-EP1#
SITE2-EP1# ping 192.168.21.10 source 192.168.10.10 vrf site-1
PING 192.168.21.10 (192.168.21.10) from 192.168.10.10: 56 data bytes
64 bytes from 192.168.21.10: icmp_seq=0 ttl=252 time=1.491 ms
64 bytes from 192.168.21.10: icmp_seq=1 ttl=252 time=1.393 ms
64 bytes from 192.168.21.10: icmp_seq=2 ttl=252 time=1.016 ms
64 bytes from 192.168.21.10: icmp_seq=3 ttl=252 time=1.01 ms
64 bytes from 192.168.21.10: icmp_seq=4 ttl=252 time=1.048 ms

--- 192.168.21.10 ping statistics ---
5 packets transmitted, 5 packets received, 0.00% packet loss
round-trip min/avg/max = 1.01/1.231/1.393 ms
SITE2-EP1# ping 192.168.31.10 source 192.168.10.10 vrf site-1
PING 192.168.31.10 (192.168.31.10) from 192.168.10.10: 56 data bytes
64 bytes from 192.168.31.10: icmp_seq=0 ttl=249 time=1.353 ms
64 bytes from 192.168.31.10: icmp_seq=1 ttl=249 time=1.129 ms
64 bytes from 192.168.31.10: icmp_seq=2 ttl=249 time=1.014 ms
64 bytes from 192.168.31.10: icmp_seq=3 ttl=249 time=1.485 ms
64 bytes from 192.168.31.10: icmp_seq=4 ttl=249 time=1.347 ms

--- 192.168.31.10 ping statistics ---
5 packets transmitted, 5 packets received, 0.00% packet loss
round-trip min/avg/max = 1.014/1.265/1.485 ms
#####
```