

Configuración de Nexus Dashboard Orchestrator para migrar un terminal de un DC a otro DC

Contenido

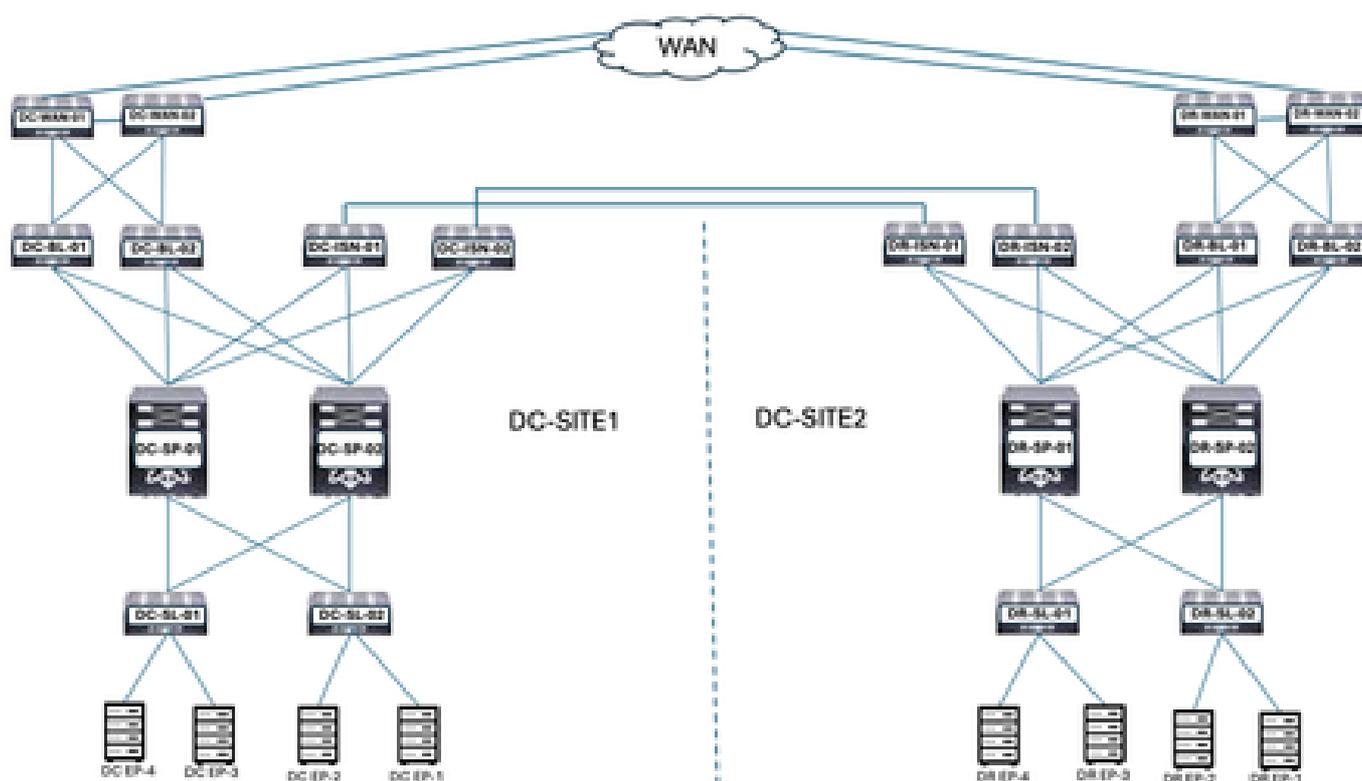
Introducción

Este documento describe los cambios de diseño y configuración necesarios para migrar un terminal de un Data Center a otro.

Topología física

La figura 1 muestra la interconectividad de dos Data Centers.

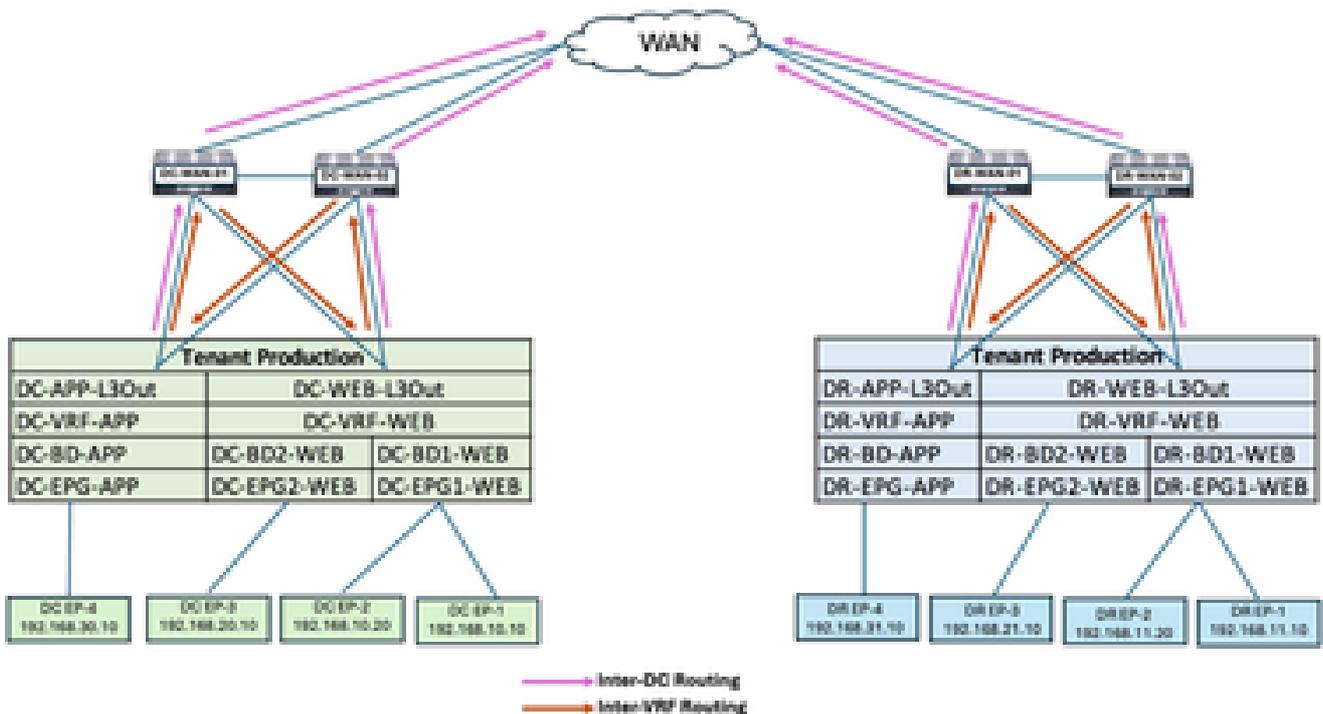
Figura 1: Topología física



Las ubicaciones de DC y DR cuentan con Application Centric Infrastructure (ACI). Las ubicaciones de DC y DR tienen switches WAN, hojas frontera, columnas, dispositivos de red entre sitios (ISN), hojas de servidor y terminales conectados.

Topología lógica

Figura 2: Topología lógica



Objetos lógicos configurados en ambos sitios:

- La producción de arrendatarios se configura en los sitios de DC y DR.
- DC-VRF-WEB y DC-VRF-APP se configuran en DC-SITE1. DR-VRF-WEB y DR-VRF-APP se configuran en DR-SITE2.
- Cada VRF se configura con L3Outs locales en la hoja de frontera hacia los switches WAN. Las rutas predeterminadas se configuran en el Border Leaf hacia los switches WAN.
- Los switches WAN se configuran con routing estático para la comunicación entre VRF y entre DC.
- Ambos Data Centers se configuran con BD y EPG locales. DC tiene DC-BD1-WEB/DC-EPG1-WEB, DC-BD2-WEB/DC-EPG2-WEB y DC-BD-APP/DC-EPG-APP. DR tiene DR-BD1-WEB/DR-EPG1-WEB, DR-BD2-WEB/DR-EPG2-WEB y DR-BD-APP/DR-EPG-APP.
- Hay terminales conectados en WEB y APP EPG.
- DC-SITE1 y DR-SITE2 se añaden en Nexus Dashboard Orchestrator.

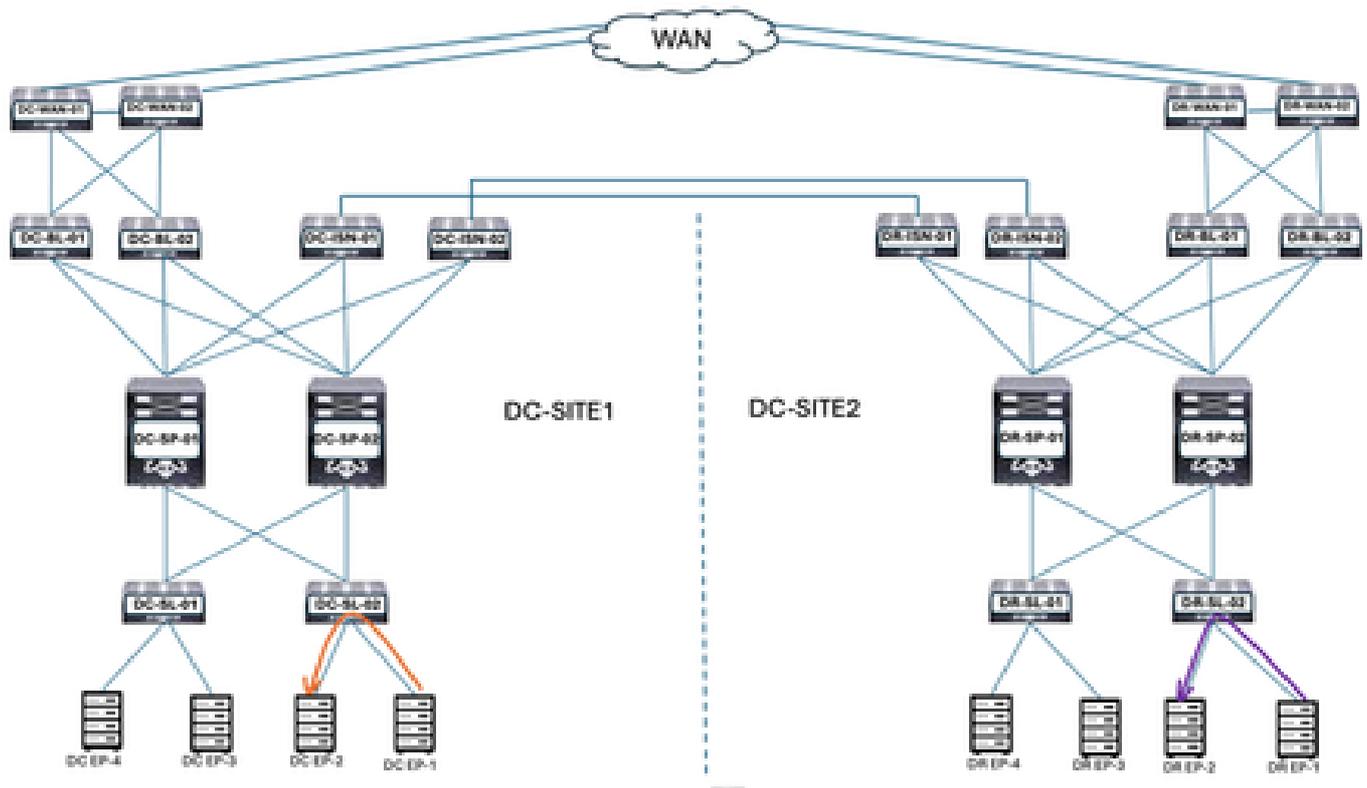
Flujo de tráfico antes de la migración de terminales

Existen varios tipos de flujo de tráfico en los Data Centers:

- Flujo de tráfico dentro de EPG
- Flujo de tráfico entre EPG
- Flujo de tráfico entre VRF
- Flujo de tráfico entre DC

Flujo de tráfico dentro de EPG

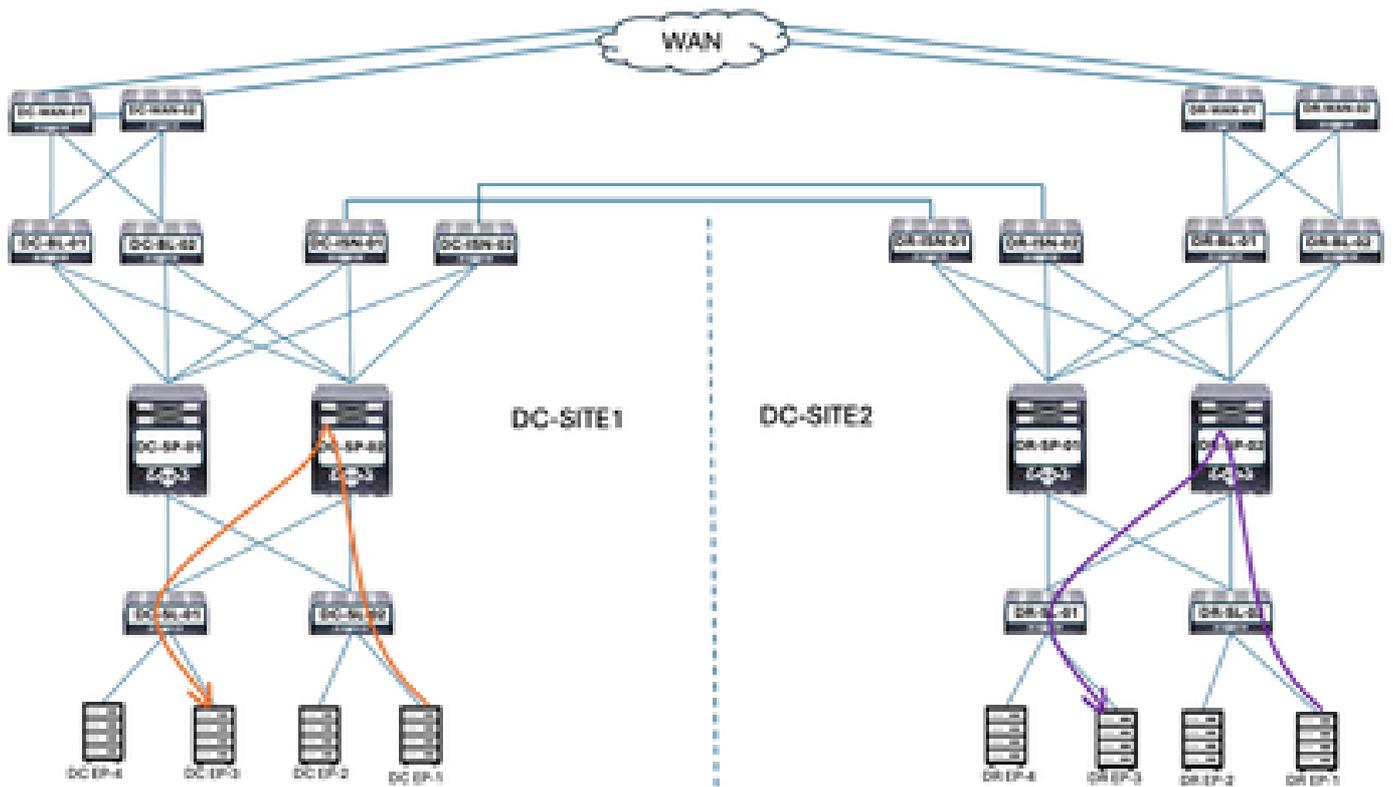
Figura 3: Flujo de tráfico dentro de EPG



La comunicación entre DC-EP-1 y DC-EP-2 es una comunicación intra-EPG, ya que ambos terminales pertenecen a DC-EPG1-WEB. La comunicación entre DR-EP-1 y DR-EP-2 es una comunicación intra-EPG, ya que ambos terminales pertenecen a DR-EPG1-WEB.

Flujo de tráfico entre EPG

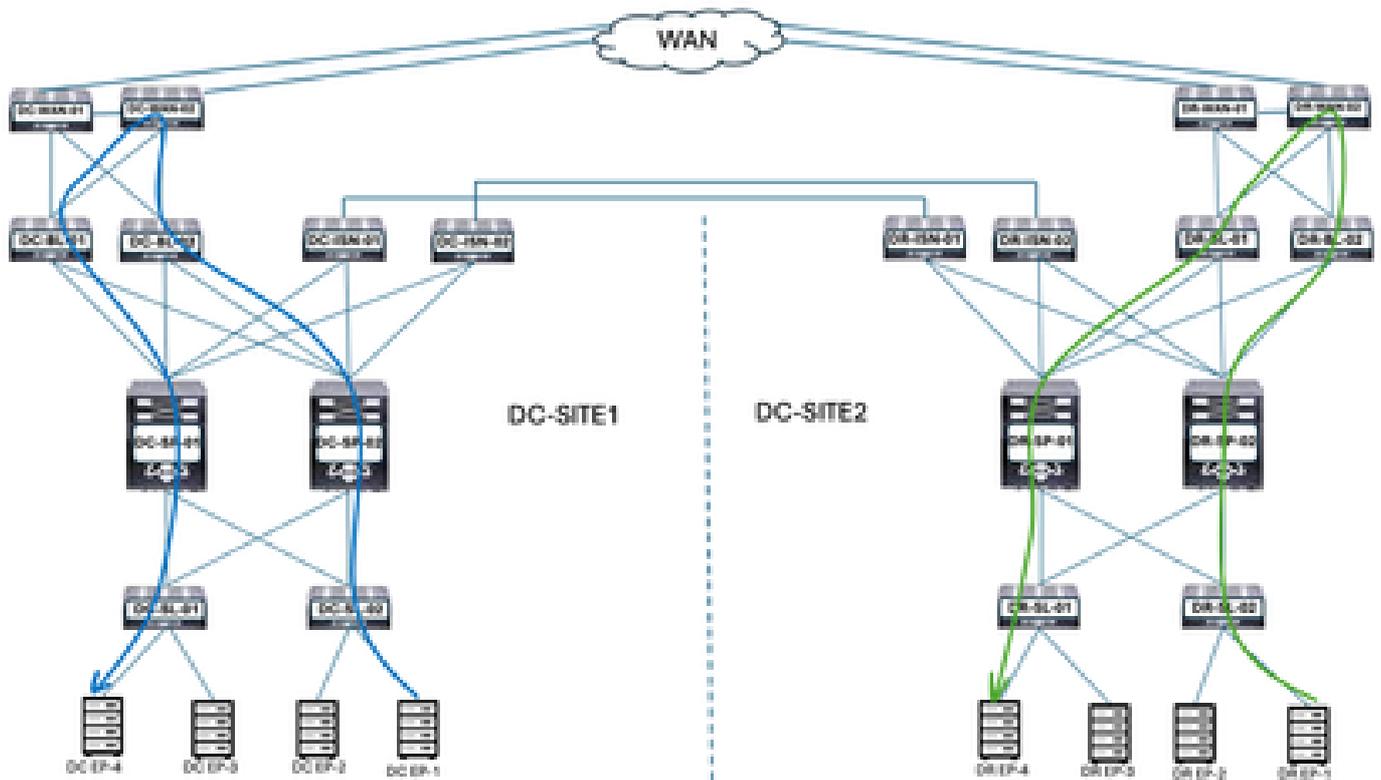
Figura 4: Flujo de tráfico entre EPG



DC-EP-1 y DC-EP-3 forman parte de DC-EPG1-WEB y DC-EPG2-WEB respectivamente; la comunicación entre estos dos terminales es el flujo de tráfico entre EPG. DR-EP-1 y DR-EP-3 forman parte de DR-EPG1-WEB y DR-EPG2-WEB respectivamente, la comunicación entre estos dos terminales es el flujo de tráfico entre EPG.

Flujo de Tráfico entre VRF

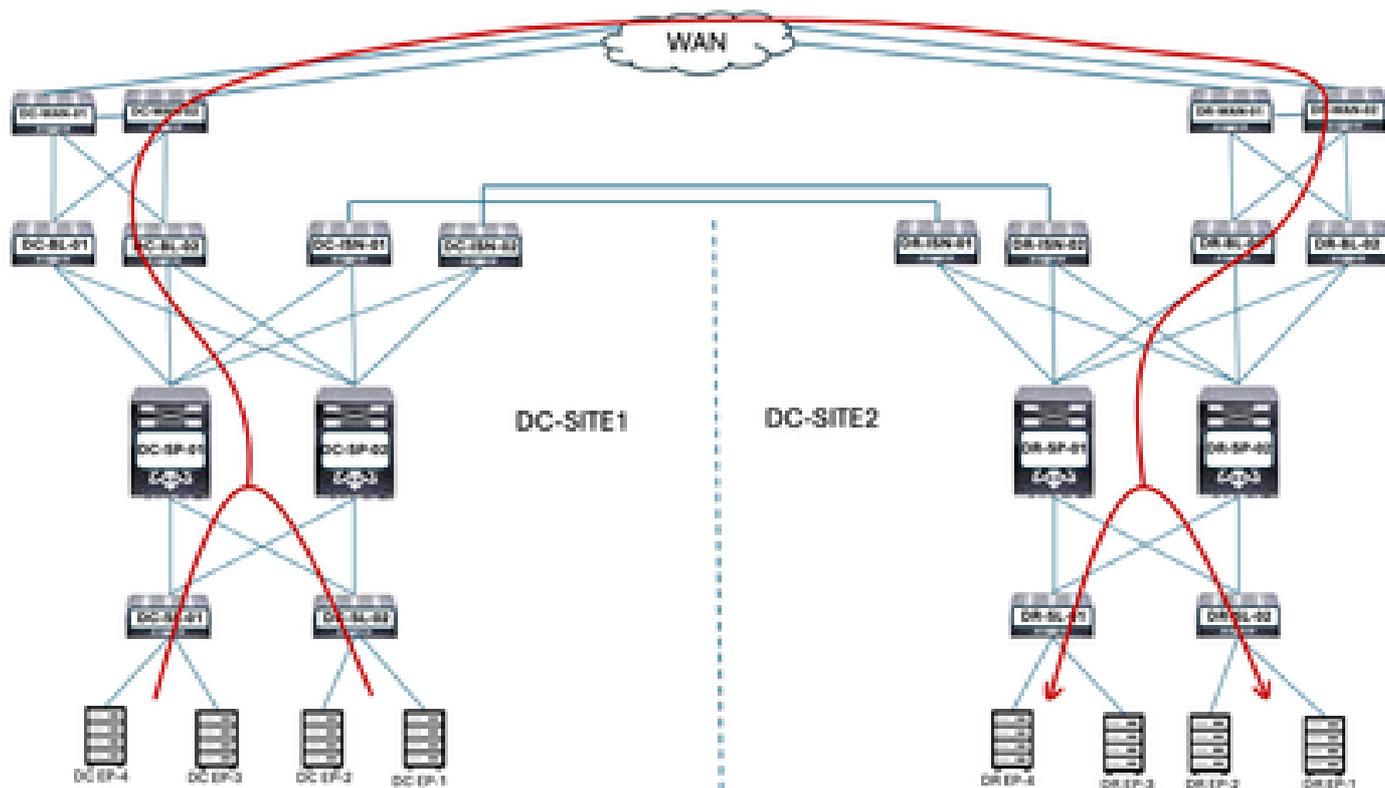
Figura 5: Flujo de Tráfico entre VRF



La hoja de frontera de DC reenvía el tráfico a los switches WAN de DC para cualquier comunicación entre VRF. Los switches WAN de DC se utilizan para la comunicación entre VRF. DC-EP-1/EP-2 (VRF WEB) se comunican con DC-EP-4 (VRF APP) a través de switches WAN. DR Border Leaf reenvía el tráfico a los switches DR WAN para cualquier comunicación entre VRF. Los switches DR WAN se utilizan para la comunicación entre VRF. DR-EP-1/EP-2 (VRF WEB) se comunican con DR-P-4 (VRF APP) a través de switches WAN.

Flujo de tráfico entre DC

Figura 6: Flujo de tráfico entre DC



La comunicación entre los terminales de DC y DR se reenvía a Border Leaf. Border Leaf reenvía el tráfico a los switches WAN. Los switches WAN se utilizan para la comunicación entre DC.

Plan de migración

Nexus Dashboard Orchestrator se utiliza para crear el multisitio entre ambos sitios, EPG/BD distribuidos entre sitios y terminales que se van a migrar de DC-SITE1 a DR-SITE2.

Creación de esquema 1

Esquema 1 creado mediante Nexus Dashboard Orchestrator.

Figura 7: Plantilla de arrendatario - Agregar esquema

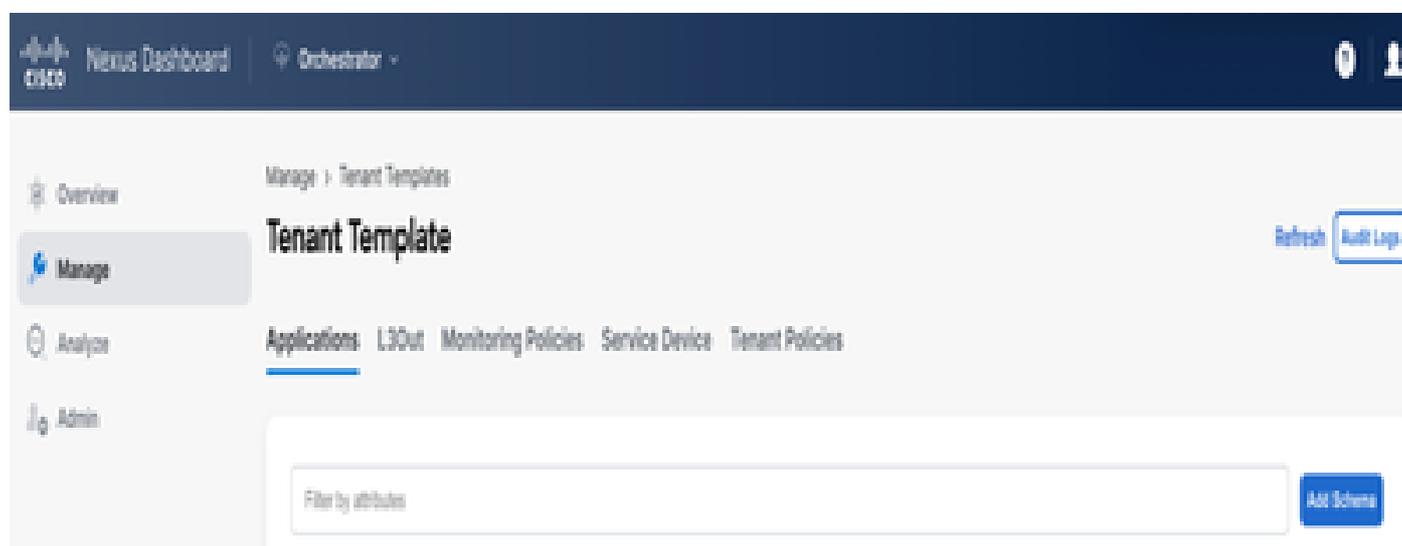
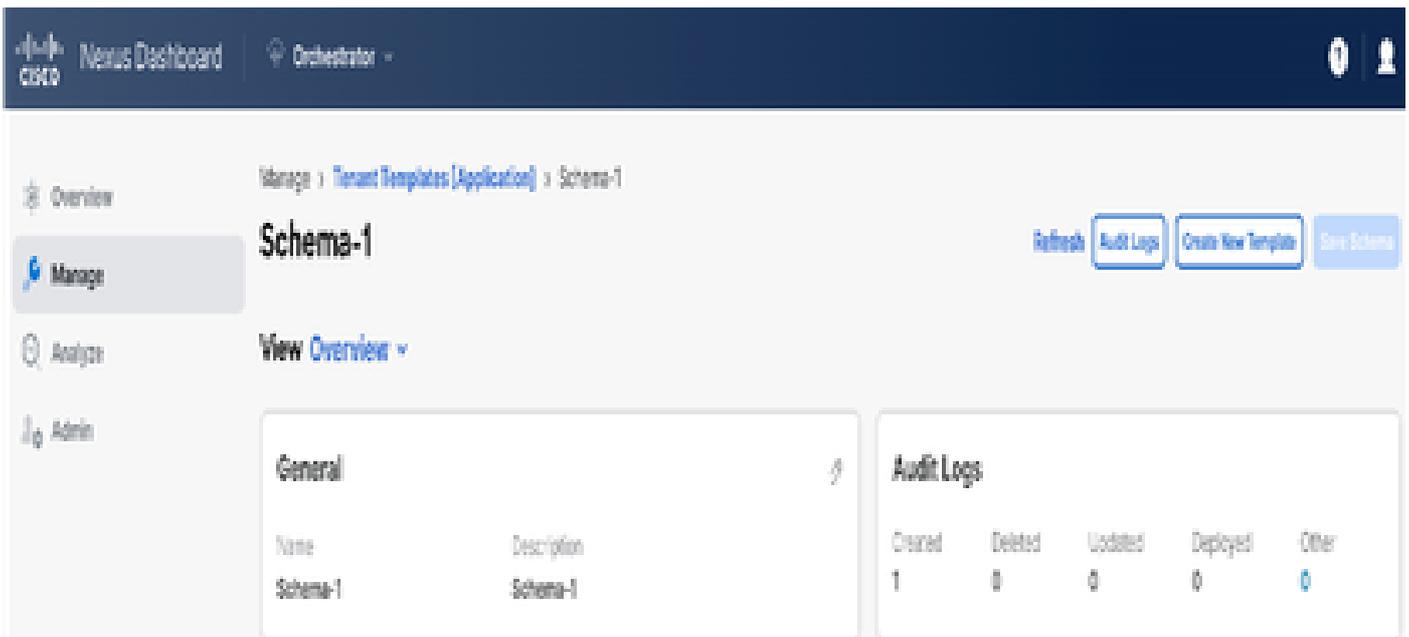


Figura 8: Agregar nombre de esquema



Creación de Plantilla-VRF-Extendida por Contrato

Template-VRF-Contract-Stretched creado dentro de Schema-1. DC-SITE1 y DR-SITE2 para formar parte de esta plantilla y Tenant-Production para asociarse a la misma plantilla. Esta es una plantilla expandida. VRF y Contracts deben formar parte de una plantilla independiente, ya que estos objetos se comparten entre otros BD/EPG. Esta plantilla se utilizará para ampliar el VRF DC-SITE1 y Contract a DR-SITE2.

Figura 9: Agregar plantilla de aplicación: seleccione ACI Multi-Cloud

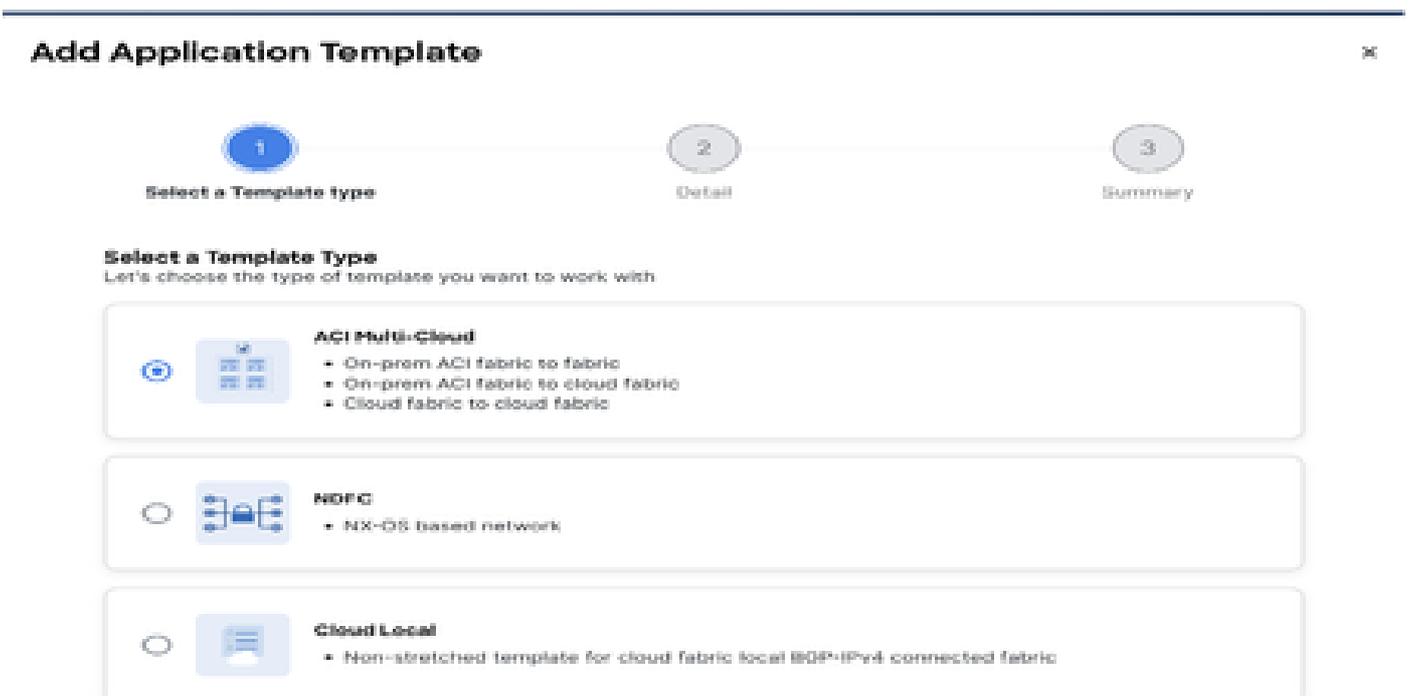


Figura 10: Add Template name Template-WEB-VRF-Contract-Stretched, Select Tenant Production

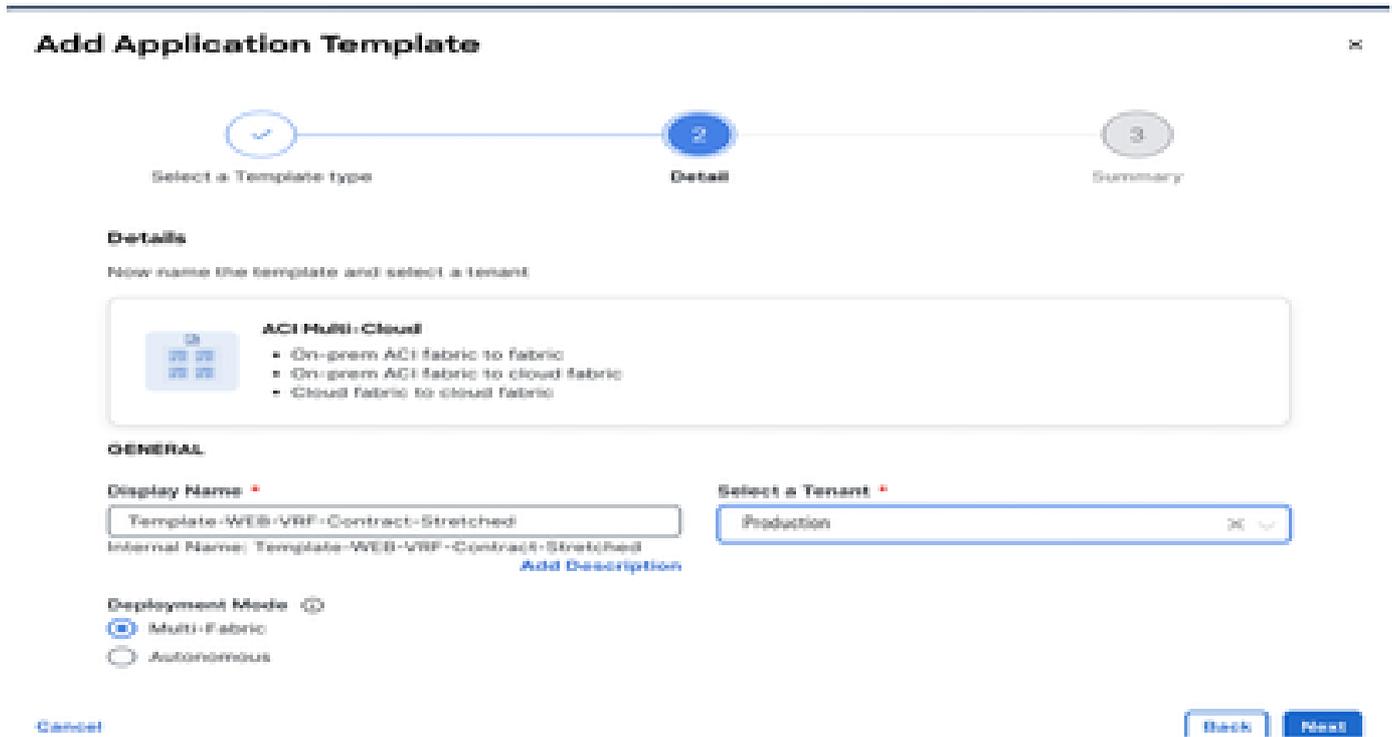
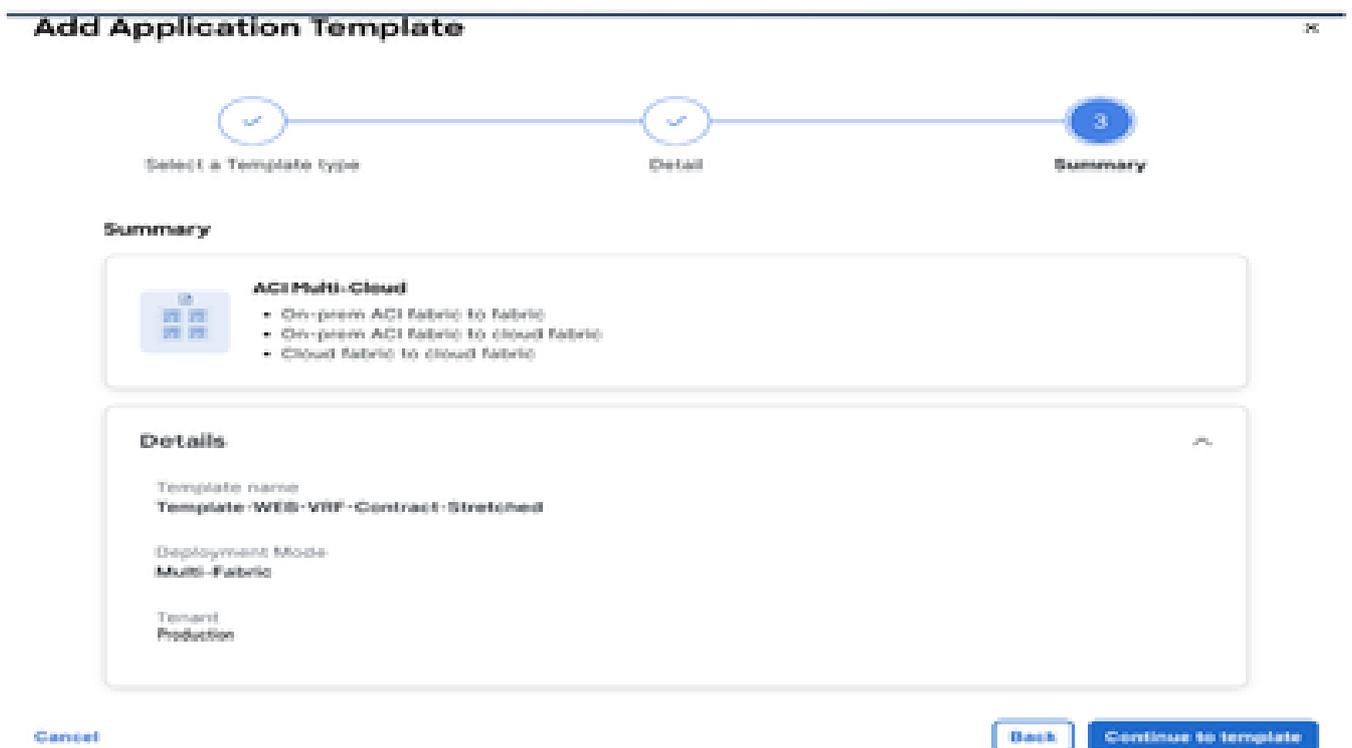


Figura 11: Detalles de Template-WEB-VRF-Contract-Stretched



Importación de VRF-Contract en Template-VRF-Contract-Stretched

Importar DC-VRF-WEB y DC-VRF-WEB-Contract de DC-SITE1. Los contratos se crean para la comunicación entre EPG y entre EPG y L3Out.

Figura 12: Haga clic en Importar y seleccione DC-SITE1

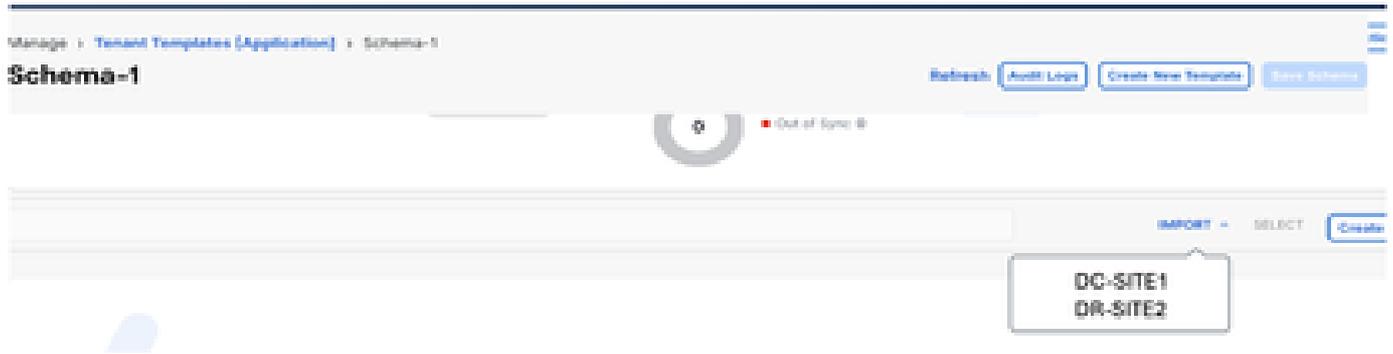


Figura 13: Seleccionar contrato de DC-SITE1

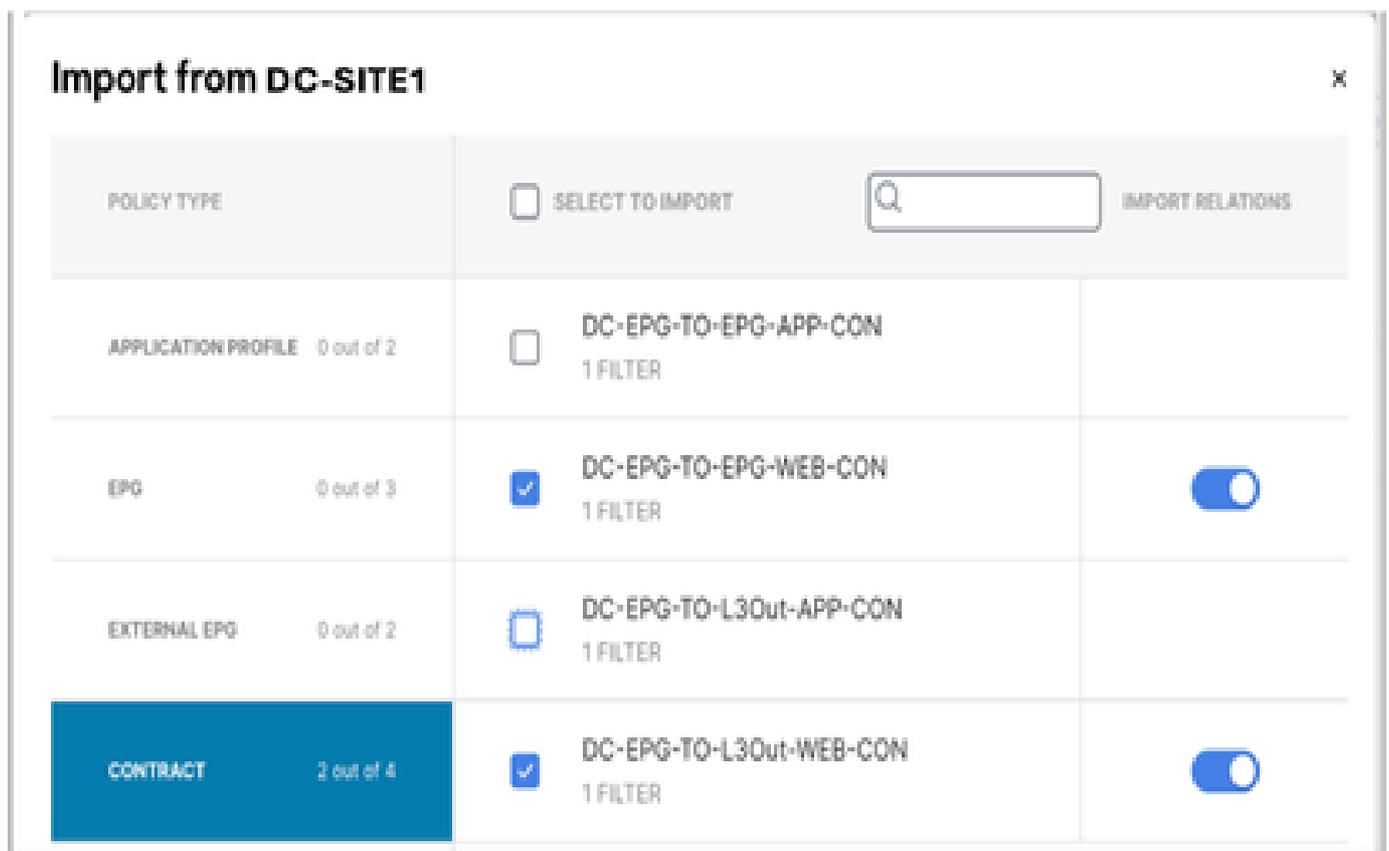


Figura 14: Seleccionar filtro de DC-SITE1

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-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		

Figura 15: Seleccione VRF en DC-SITE1

POLICY TYPE		<input checked="" type="checkbox"/> SELECT TO IMPORT	<input type="text"/>	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		

Figura 16: Template-WEB-VRF-Contract-Stretched con VRF e información de contratos

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 (1 In Sync, 1 Out of Sync) Last Action: Updated Deployment Mode: Multi-Fabric

Filter: [] [SELECT] [CREATE]

Contracts [CREATE CONTRACT]

- DC-EPG-TD-EPG-WEB-COR
- DC-EPG-TD-L3Out-WEB-COR

VRFs [CREATE VRF]

- DC-VRF-APP
- DC-VRF-WEB

Deploy Template-VRF-Contract-Stretched

Haga clic en Deploy Template-VRF-Contract-Stretched y seleccione DC-SITE1 y DR-SITE2

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

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

Name

(DC-SITE1) 0.0/0/0

(DR-SITE2) 0.0/0/0

[OK]

Figura 18: Desplegar plantillas de sincronización

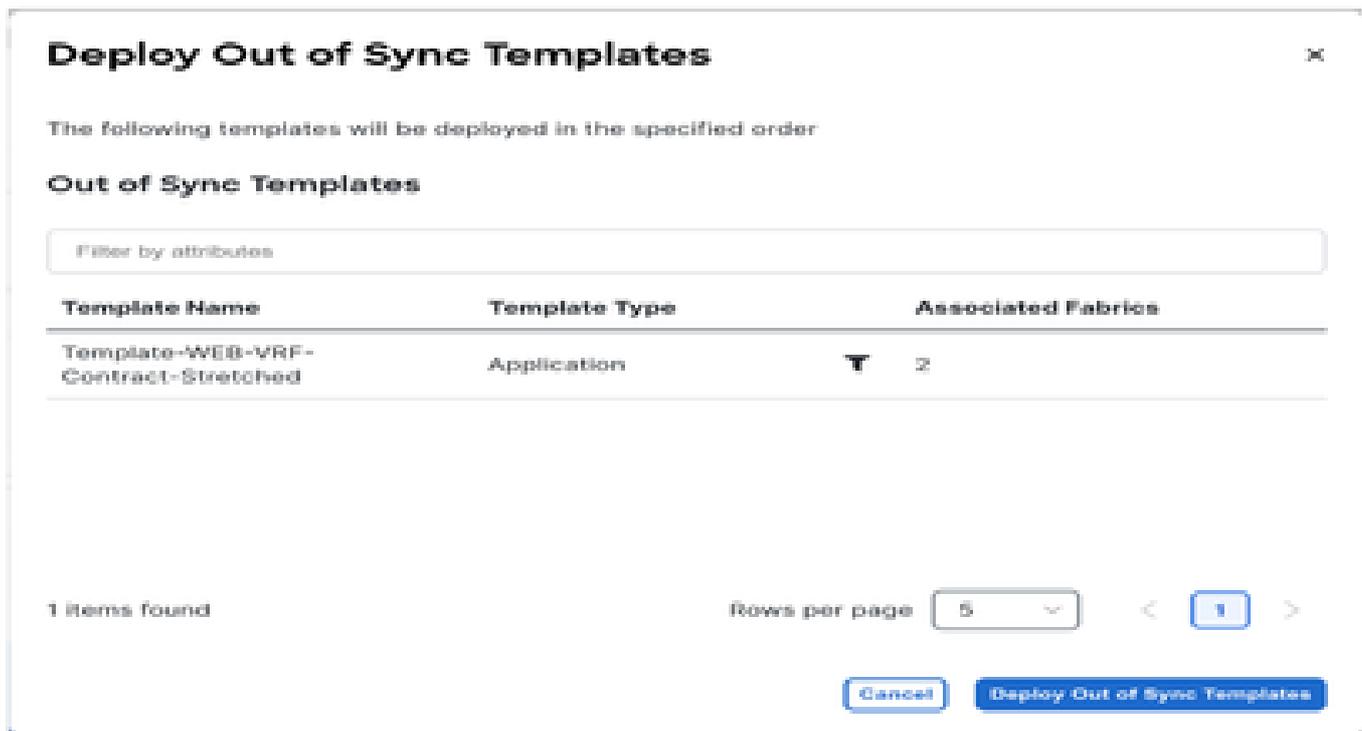


Figura 19: Implementación completada

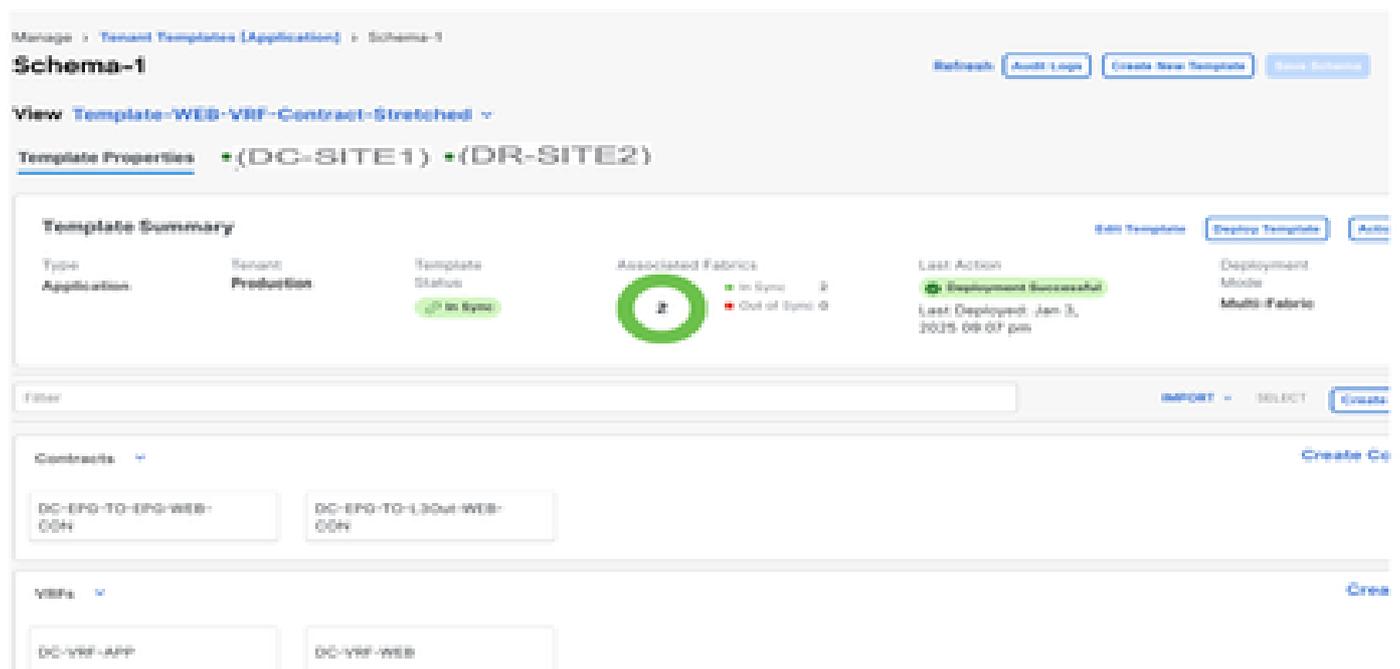
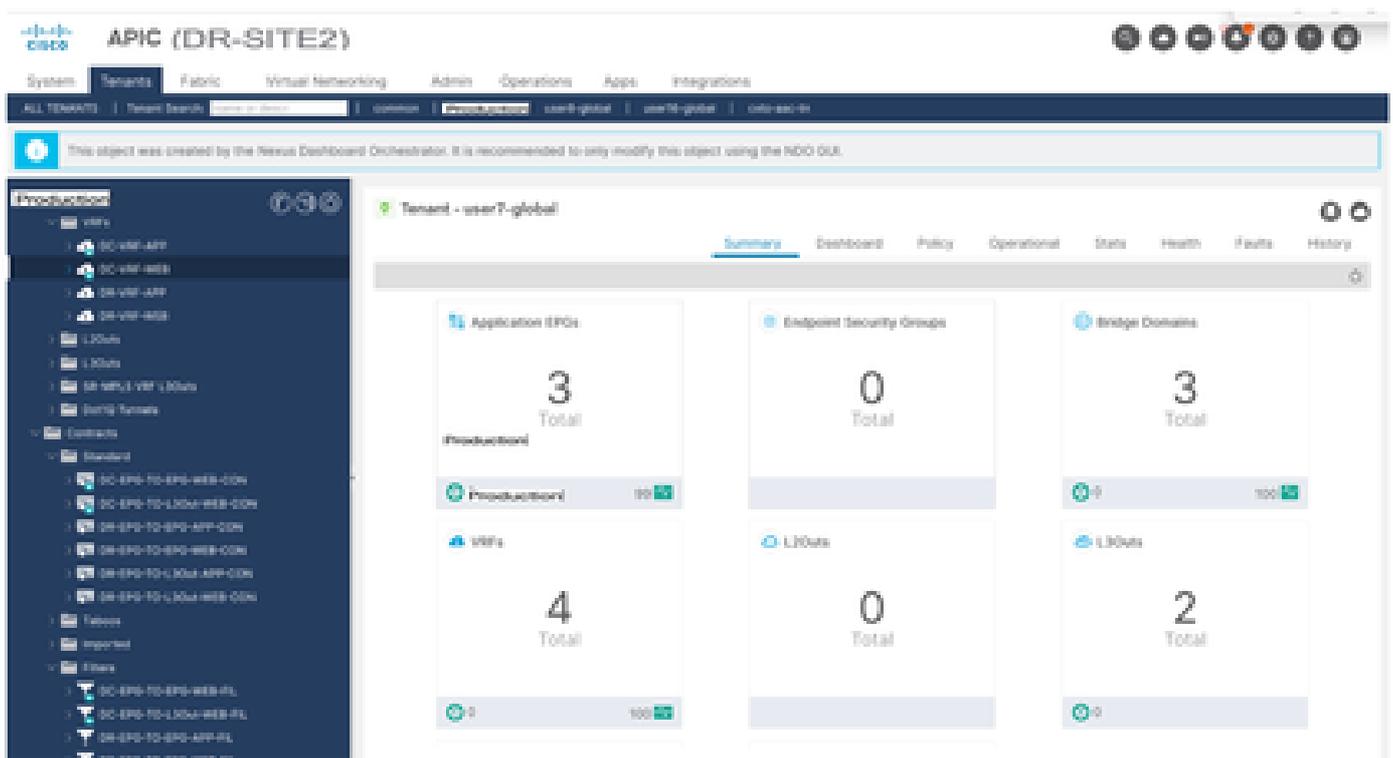
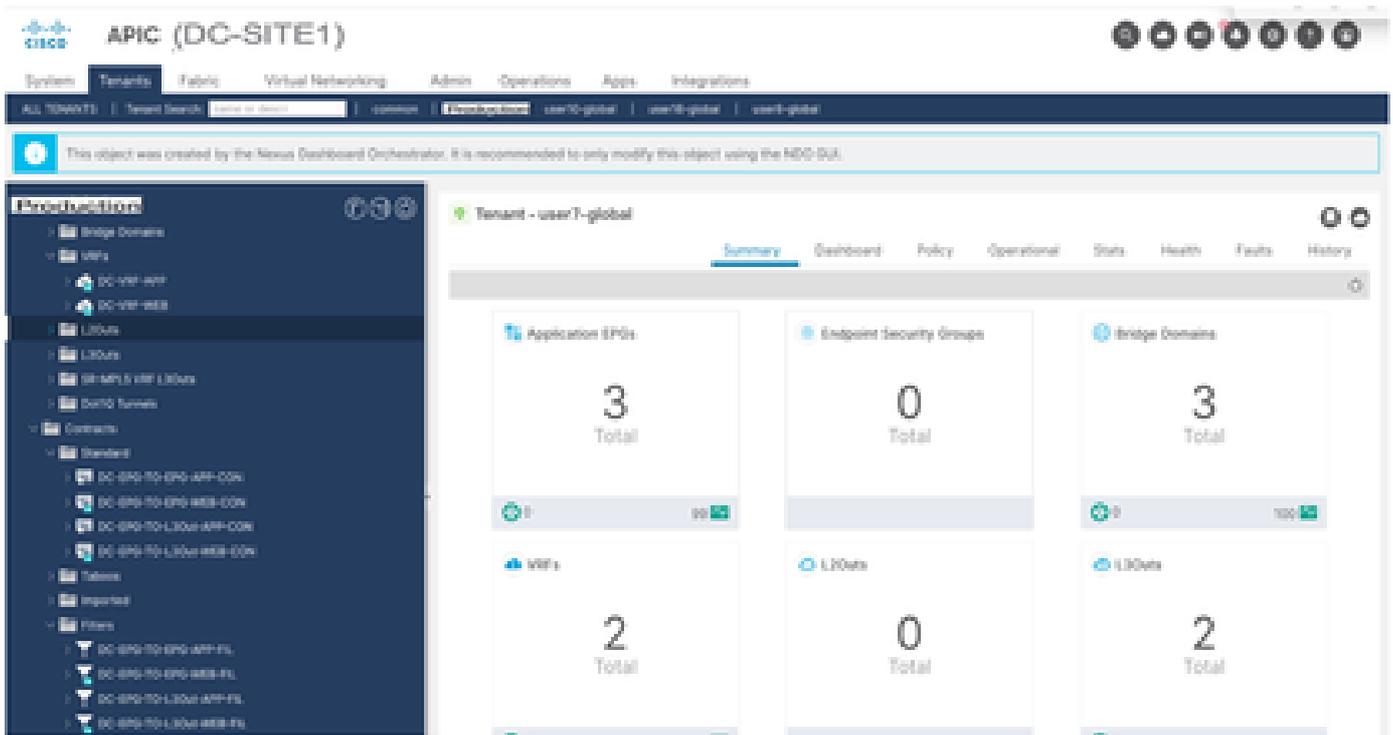


Figura 20: Verificar VRF y Contratos implementados en ambos Sitios



Template-EPG1-BD1-Stretched Creation

Template-EPG1-BD1-Stretched creado dentro de Schema-1. DC-SITE1 y DR-SITE2 añadidos a Template y Tenant-Production asociados a la misma Template. Esta es una plantilla expandida. Esta plantilla se utiliza para ampliar DC-EPG1-WEB y DC-BD1-WEB a DR-SITE2.

Figura 21: Agregar plantilla de aplicación: seleccione 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

Figura 22: Agregar nombre de plantilla Plantilla-EPG1-BD1-Stretched, Seleccionar producción de arrendatario

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: X

Deployment Mode: Multi-Fabric Autonomous

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

Figura 23: Template-EPG1-BD1-Stretched Details



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-EPG1-BD1-Stretched

Deployment Mode
Multi-Fabric

Tenant
Production

[Cancel](#)

[Back](#)

[Continue to template](#)

Importación de EPG1-BD1 en la plantilla-EPG1-BD1-Stretched

Importe DC-EPG1-WEB y DC-BD1-WEB de DC-SITE1.

Figura 24: Haga clic en Importar y seleccione DC-SITE1

The screenshot shows the 'Schema-1' configuration page. At the top, there are navigation links: 'Refresh', 'Audit Logs', 'Create New Template', and 'Save Schema'. Below this, the 'View Template-EPG1-BD1-Stretched' dropdown is visible. The 'Template Properties' section includes a 'Template Summary' card with the following details: Type: Application; Tenant: Production; Template Status: Unassociated; Associated Fabrics: In-Sync (0) and Out of Sync (0); Last Action: Updated; Deployment Mode: Multi-Fabric. At the bottom right, there is a 'CREATE - SELECT' dropdown menu with a 'Create' button. A callout box points to the dropdown menu, containing the text 'DC-SITE1' and 'DR-SITE2'.

Figura 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		

Figura 26: Seleccionar DC-BD1-WEB de 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			

[Import](#)

Cambio de la configuración de BD en Template-EPG1-BD1-Stretched

Active L2 Stretch en los parámetros DC-BD1-WEB y agregue la dirección IP de la puerta de enlace. Esta plantilla se utiliza para extender BD por el sitio y la gateway de difusión por proximidad configurada en DC-SITE1 y DR-SITE2.

Figura 27: Seleccionar ampliación de L2 en DC-BD1-WEB

The screenshot shows the configuration page for DC-BD1-WEB. The page includes a description field, an annotations table, and a properties section. Under the 'Virtual Routing & Forwarding' section, the 'DC-BD1-WEB' dropdown is selected. In the 'L2 Stretch' section, the 'L2 Stretch' checkbox is checked. Other options like 'Inter-site BUM Traffic Allow', 'Optimize WAN Bandwidth', and 'Unicast Routing' are also checked.

Figura 28: Agregar IP/subred de gateway

The screenshot shows the 'Add New Subnet' dialog box. The 'Gateway IP' field is set to '192.168.10.1/24'. The 'Description' field is empty. The 'Treat as virtual IP address' checkbox is unchecked. The 'Scope' is set to 'Private to VRF'. The 'Shared between VRFs' checkbox is unchecked. The 'No Default SVI Gateway' checkbox is unchecked. The 'Querier' checkbox is unchecked. The 'Primary' checkbox is checked. The 'Ok' button is visible at the bottom right.

Deploy Template-EPG1-BD1-Stretched

Haga clic en Deploy Template-EPG1-BD1-Stretched y seleccione DC-SITE1 y DR-SITE2

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



Figura 30: Desplegar plantillas de sincronización

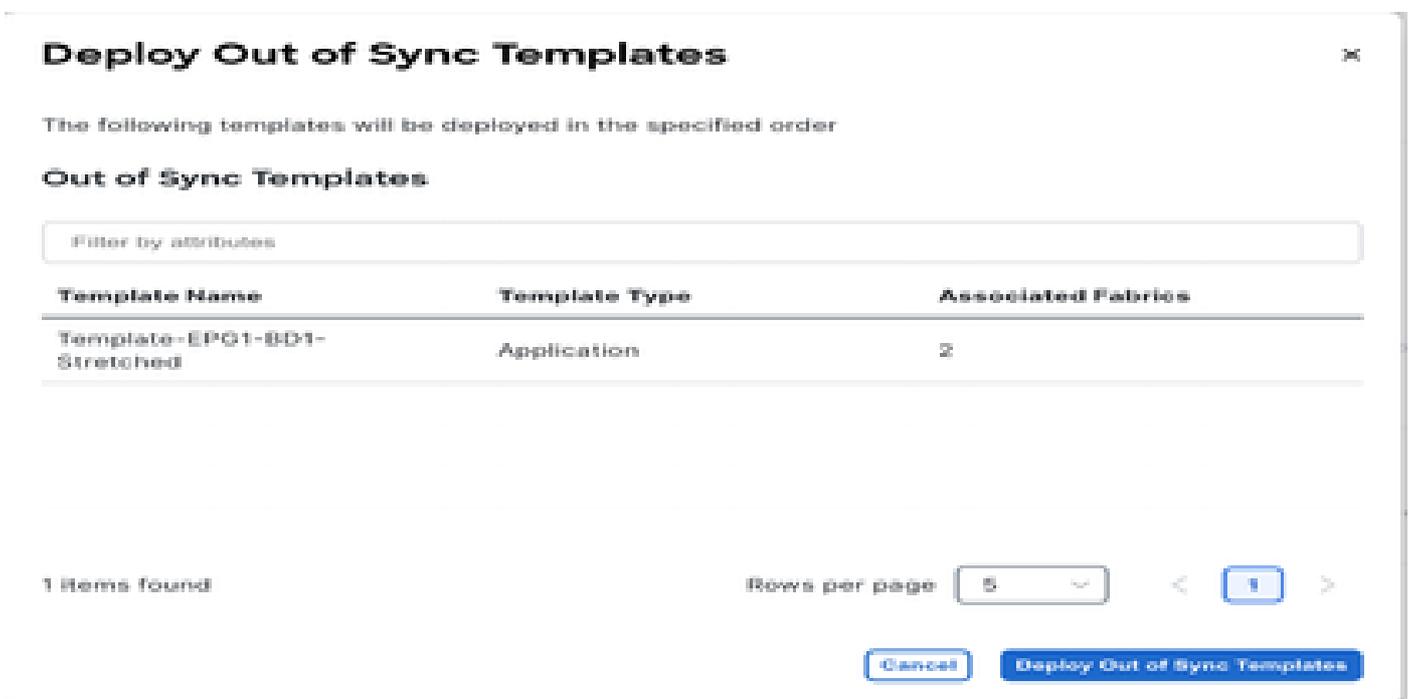
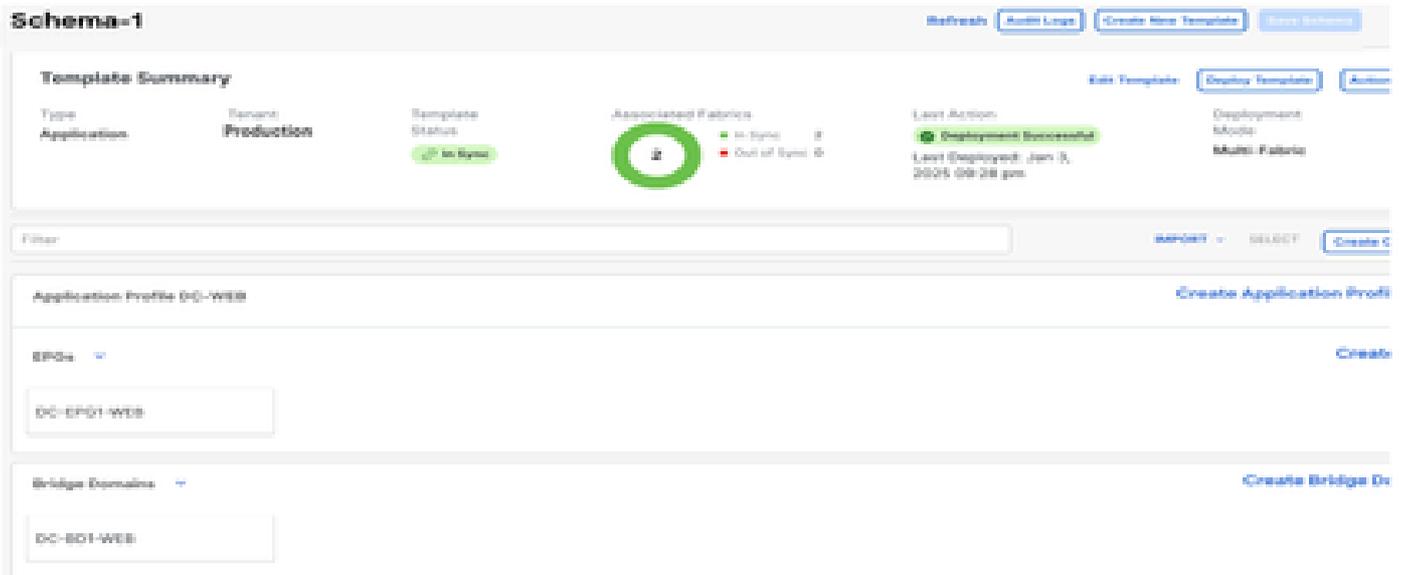


Figura 31: Implementación completada



Migrar DC-EP-1 de DC-SITE1 a DR-SITE2

Configure el enlace estático en DR-SITE2 en DC-EPG1-WEB y asocie el dominio físico DR-SITE2. Migre el DC-EP-1 de DC-SITE1 a DR-SITE2.

Figura 32: DC-EP-1 aprendido actualmente en DC-SITE1

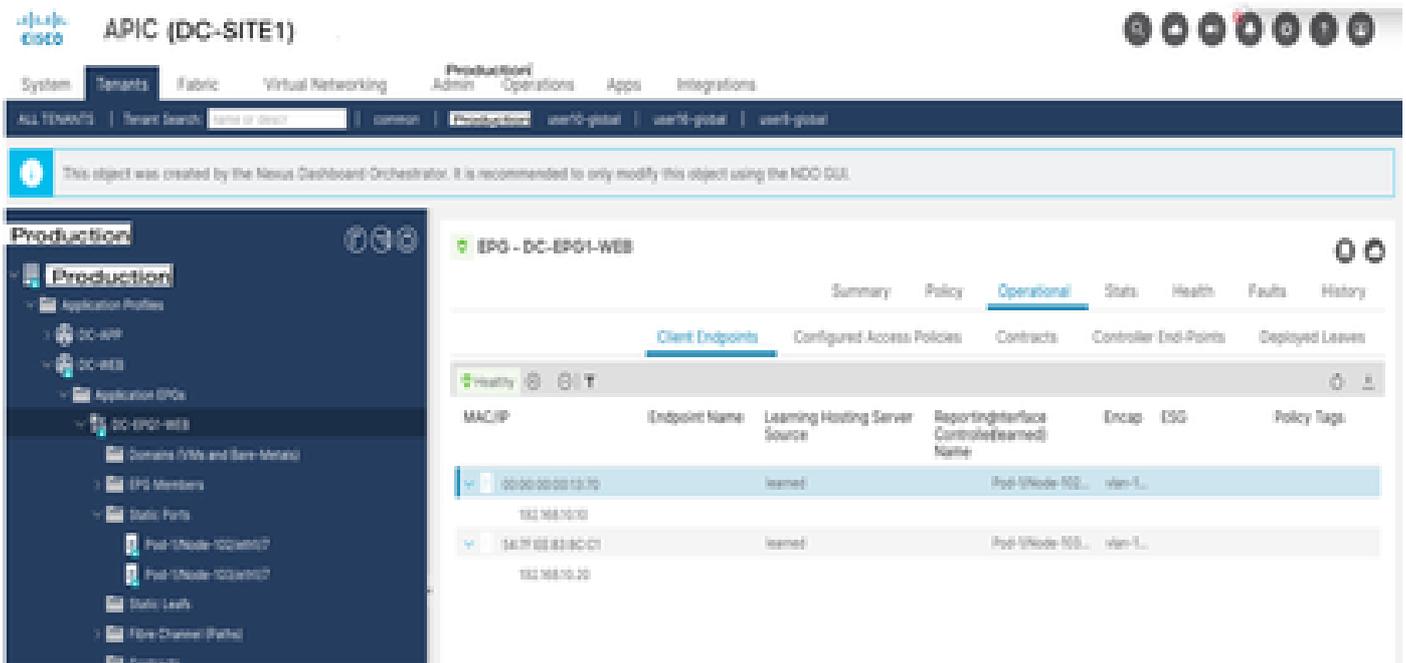


Figura 33: DC-EP-1 eliminado de DC-SITE1

System | **Tenants** | Fabric | Virtual Networking | Admin | Operations | Apps | Integrations

ALL TENANTS | Tenant Search: | common | **DC-SITE1** | user1-global | user2-global | user3-global

This object was created by the Nexus Dashboard Orchestrator. It is recommended to only modify this object using the NDO GUI.

Production

- Production
 - Application Profiles
 - DC-APP
 - DC-WEB
 - Application EPGs
 - DC-EPG1-WEB**
 - Domains (VFs and Bare-Metals)
 - EPG Members
 - Static Ports
 - Port-Channel-Path
 - Static Leafs
 - File-Channel-Path
 - Contracts
 - Static Endpoints
 - Subnets
 - LA-L7 Virtual IPs
 - LA-L7 IP Address Pool

EPG - DC-EPG1-WEB

Summary | Policy | **Operational** | Stats | Health | Faults | History

Client Endpoints | Configured Access Policies | Contracts | Controller End-Points | Deployed Leases

Healthy

MAC/IP	Endpoint Name	Learning/Hosting Server Source	Reporting Interface Controller/Device Name	Encap	ESG	Policy Tags
54:7F:65:83:8C:03 10.108.10.20	named		Port-Mode-CL...	via-L...		

Figura 34: Adición de dominio físico en DR-SITE2

System | **Tenants** | Fabric | Virtual Networking | **Production** Admin | Operations | Apps | Integrations

ALL TENANTS | Tenant Search: | common | **DR-SITE2** | user1-global | user2-global | user3-global

This object was created by the Nexus Dashboard Orchestrator. It is recommended to only modify this object using the NDO GUI.

Production

- Production
 - Application Profiles
 - DC-WEB
 - Application EPGs
 - DC-EPG1-WEB**
 - Domains (VFs and Bare-Metals)
 - EPG Members
 - Static Ports
 - Static Leafs
 - Port-Channel-Path
 - Contracts
 - Static Endpoints
 - Subnets
 - LA-L7 Virtual IPs
 - LA-L7 IP Address Pool

Domains (VFs and Bare-Metals)

Domain	Type	Deploys	Resoluto	Allow Micro-Segment	Primary VLAN	Port Encap	Switching Mode	Encap Mode	Cos. Value	Enhance Lag Policy	Custom EPG Name	NDK-T API Mode	IPAM Gateway Address	DHCP Server Address Override	IPAM Enabled
user1	Physic...						native	Auto	CoS0			Manag...	0:0:0	0:0:0	False

Figura 35: Adición de enlaces estáticos en DR-SITE2

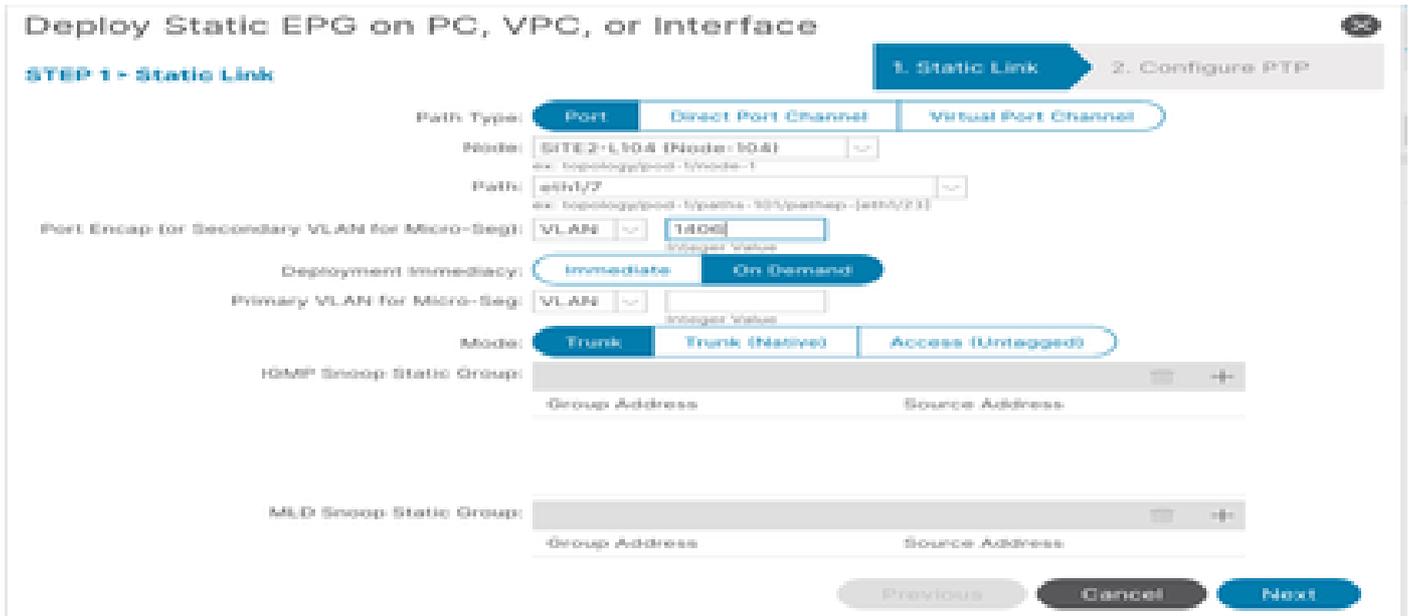
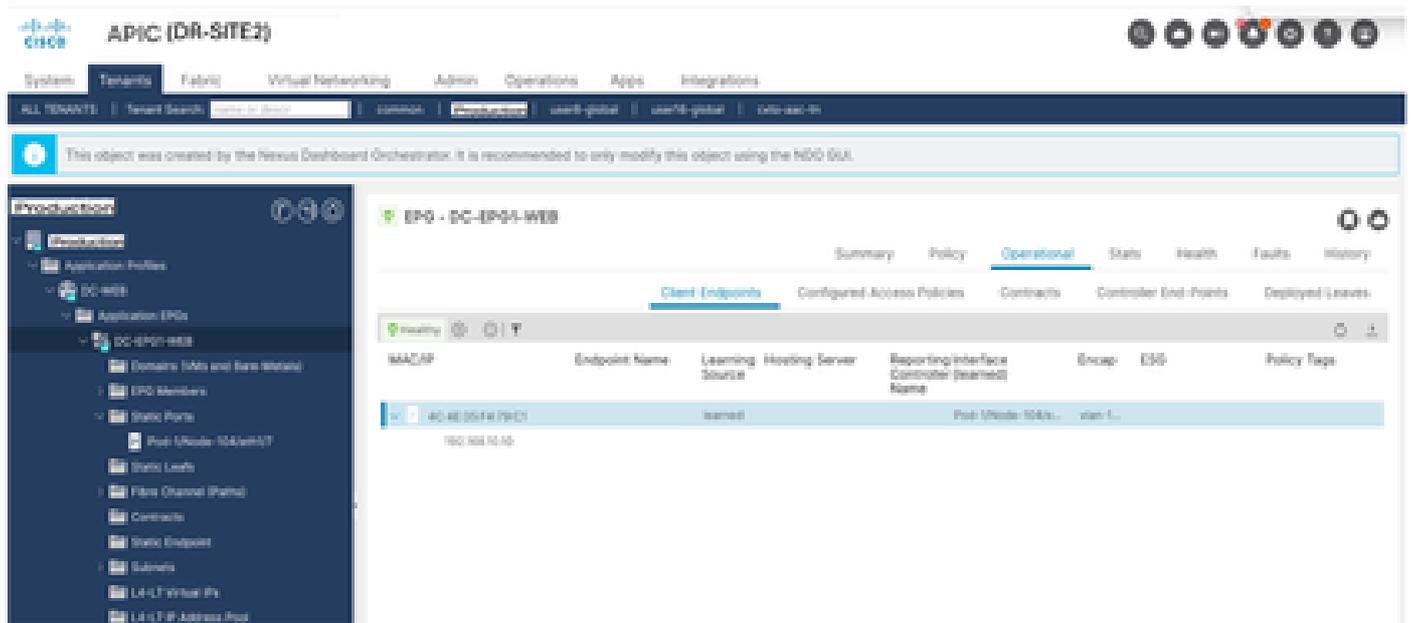


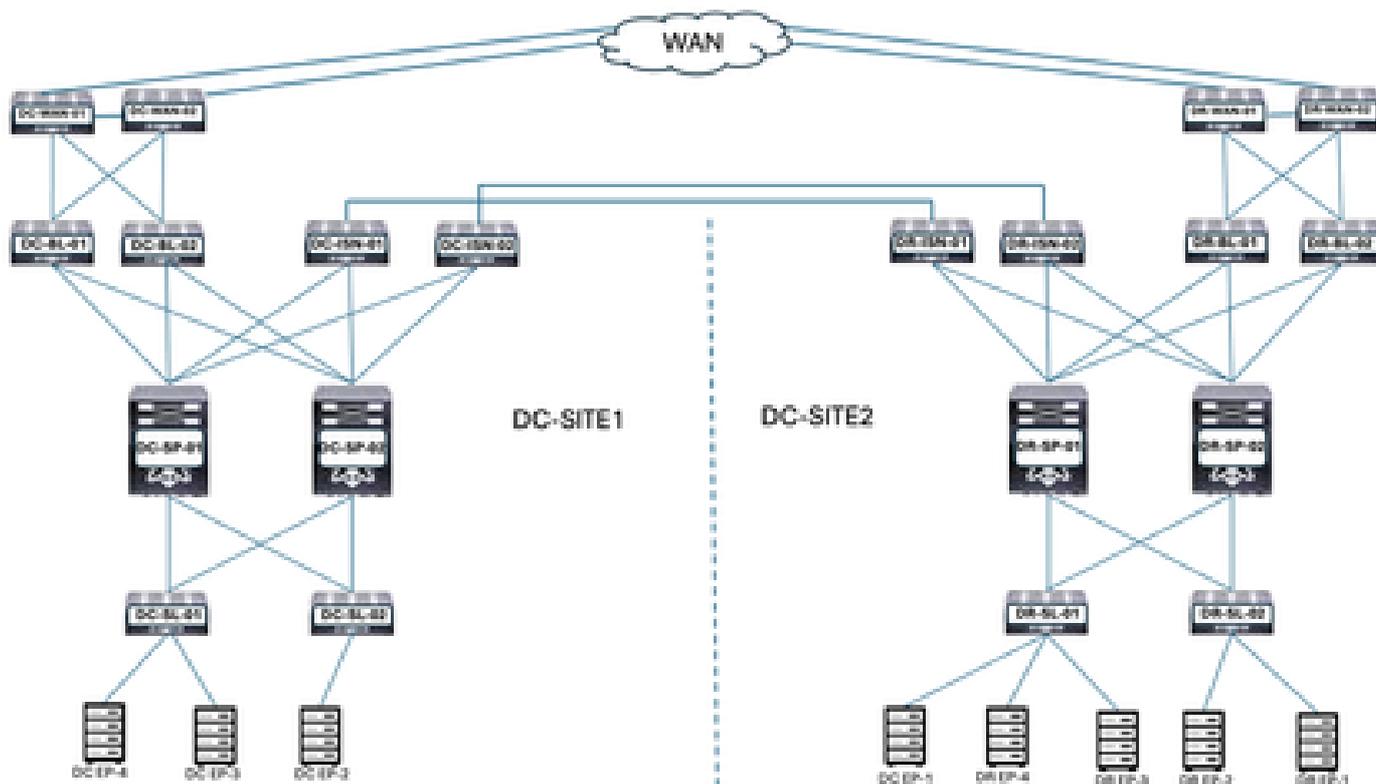
Figura 36: DC-EP-1 aprendido en DR-SITE2



Diseño físico después de la migración a DC-EP-1

DC-EP-1 está conectado a la hoja del servidor DR-SITE2.

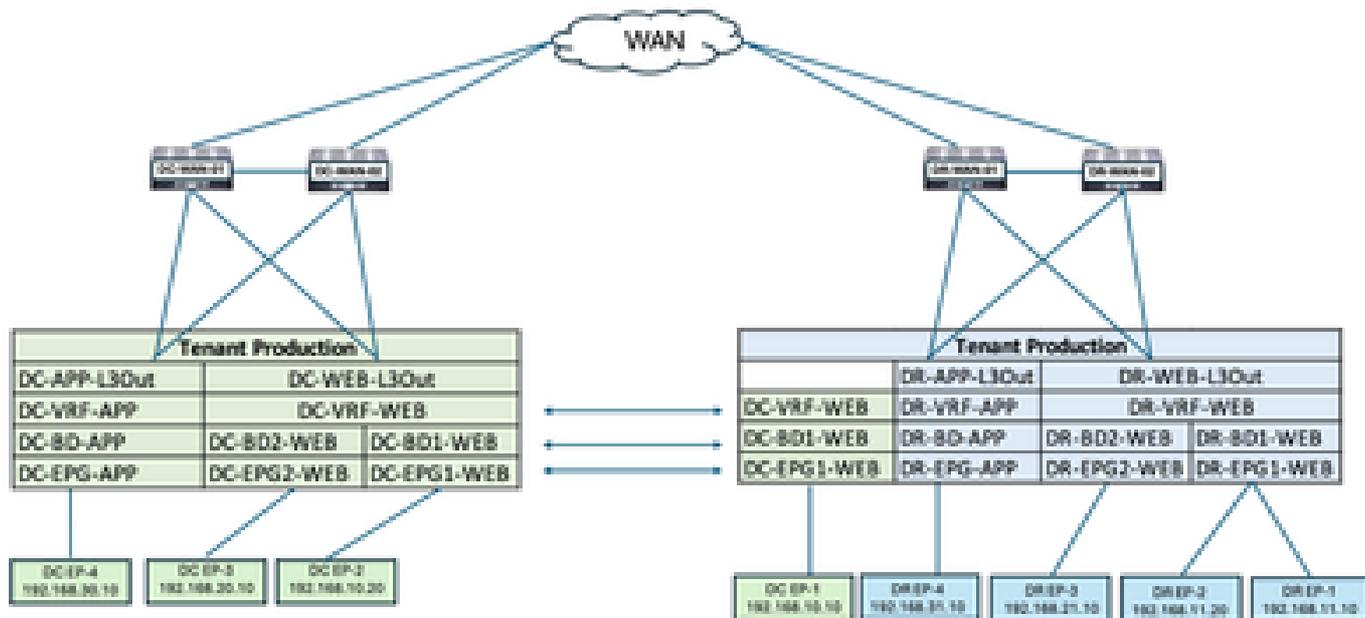
Figura 37: Diseño físico después de la migración a DC-EP-1



Diseño lógico después de la migración de DC-EP-1

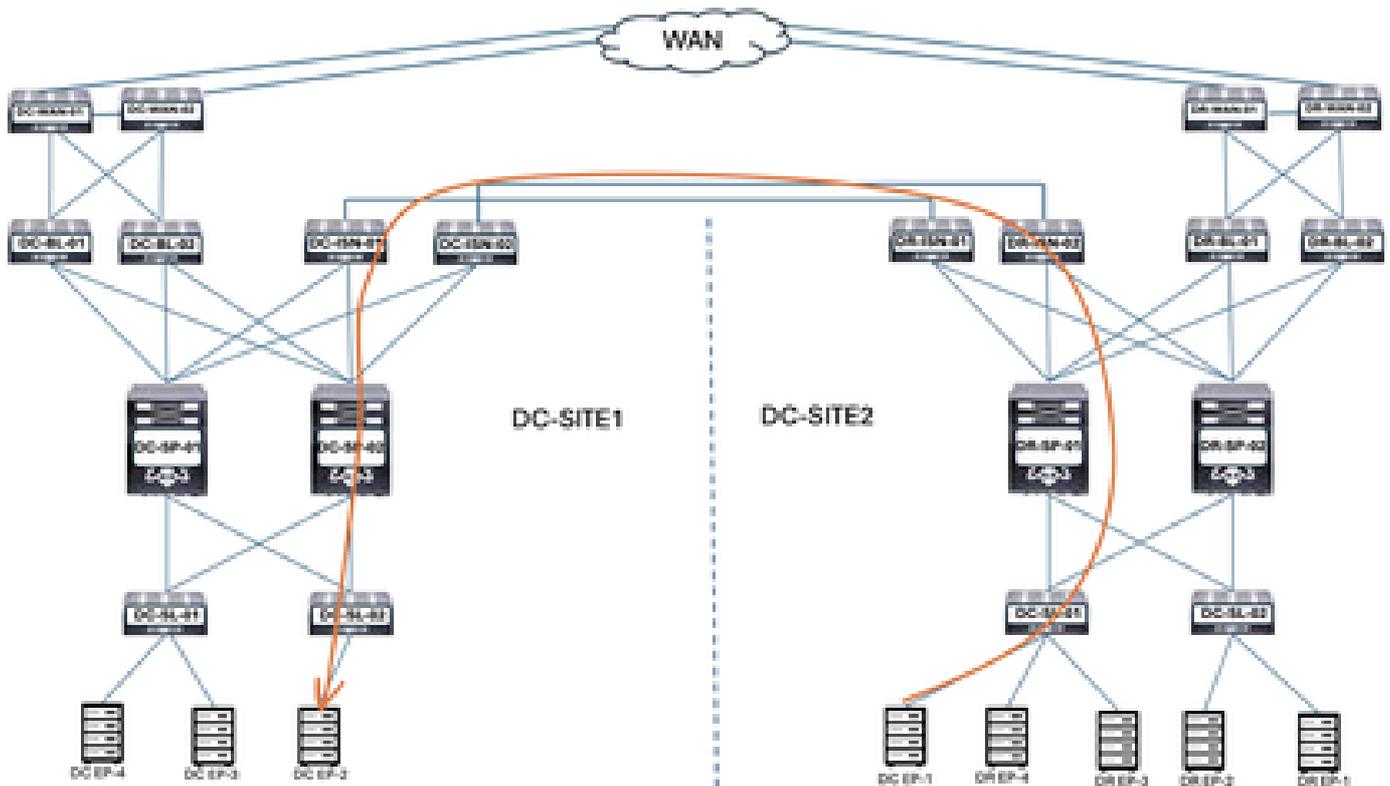
DC-EP-1 está conectado a la hoja del servidor DR-SITE2. DC-EPG1-WEB, DC-BD1-WEB y DC-VRF-WEB se extienden entre DC-SITE1 y DR-SITE2.

Figura 38: Diseño lógico después de la migración de DC-EP-1



Flujo de tráfico dentro de EPG después de la migración de DC-EP-1

Figura 39: Flujo de tráfico dentro de EPG después de la migración de DC-EP-1



La comunicación entre DC-EP-1 y DC-EP-2 es una comunicación intra-EPG, ya que ambos terminales pertenecen a DC-EPG1-WEB. Esta comunicación se realiza a través de DC ISN a DR ISN Multisite/Overlay Links.

Respuesta de ping entre DC-EP-1 y DC-EP-2

Figura 40: Respuesta de ping entre DC-EP-1 y 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
```

Tabla de enrutamiento desde columnas

DC-EP-1 aprendido en DC-SP-01/DC-SP-02 de DR-SP-01/DR-SP-02.

Figura 41: Tabla de enrutamiento desde columnas

DC-EP-1 se aprende en DC-SITE1-SP-01 de 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          0 65002 1
      172.16.0.13
*->e[2]:[0]:[0]:[48]:[4c4e.35f4.79c1]:[32]:[192.168.10.10]/272 0 65002 1
      172.16.0.13

```

DR-SITE2-SP-01 Unidifusión superpuesta 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

```

Creación de Template-EPG2-BD2-Site1

La comunicación entre los EPG entre DC-EP-1 y DC-EP-3 se produce una vez que DC-EPG2-WEB y DC-BD2-WEB forman parte de Nexus Dashboard Orchestrator.

Template-EPG2-BD2-Site1 creado dentro de Schema-1. DC-SITE1 agregado a Template y Tenant-Production asociados con la misma Template. Esta es una plantilla específica del sitio. Esta plantilla se utiliza para importar la plantilla Template-EPG2-BD2-Site1 para la comunicación entre DC-EP-1 y DC-EP-3.

Las comunicaciones DC-EP-1 y DC-EP-3 requieren que DC-EPG2-BD2 forme parte de Nexus Dashboard Orchestrator.

Figura 42: DC-EP-1 y DC-EP-3 no pueden comunicarse

```

# 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

```

Figura 43: Agregar plantilla de aplicación: seleccione ACI Multi-Cloud

Add Application Template

X

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

Figura 44: Agregar nombre de plantilla Plantilla-EPG2-BD2-Sitio1, Seleccionar producción de arrendatario

Add Application Template

X

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 X

Deployment Mode ⊞
 Multi-Fabric
 Autonomous

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

Figura 45: Detalles de Template-EPG2-BD2-Site1

Add Application Template



Progress bar: 1. Select a Template type (checked), 2. Detail (checked), 3. Summary (active)

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-EPG2-BD2-Site1

Deployment Mode
Multi-Fabric

Tenant
Production

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

Importar EPG2-BD2 en plantilla-EPG2-BD2-sitio1

Importe DC-EPG2-WEB y DC-BD2-WEB de DC-SITE1.

Figura 46: Haga clic en Importar y seleccione DC-SITE1

Schema-1

View **Template-EPG2-BD2-Site1**

Template Properties

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

Filter: [IMPORT](#) [SELECT](#) [Create](#)

DC-SITE1
DR-SITE2

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

Import from DC-SITE1

POLICY TYPE	<input type="checkbox"/> SELECT TO IMPORT	<input type="text"/>	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	

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

Import from DC-SITE1

POLICY TYPE	<input type="checkbox"/> SELECT TO IMPORT	<input type="text"/>	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

Figura 49: Se importan los contratos asociados a DC-EPG2-WEB

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

Common Properties

Display Name

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

Implementación de la plantilla-EPG2-BD2-Site1

Haga clic en Deploy Template-EPG2-BD2-Site1 y seleccione DC-SITE1

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

Add Fabrics To Template-EPG2-BD2-Site1 x

Name

DC-SITE1
6.0(5N)

DR-SITE2
6.0(5N)

[Ok](#)

Figura 51: Desplegar plantillas de sincronización

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-EPG2-BD2-Site1	Application	1

1 items found Rows per page: 5 < 1 >

Cancel
Deploy Out of Sync Templates

Figura 52: Implementación completada

Schema-1 Refresh Audit Logs Create New Template Edit Template

Template Properties **(DC-SITE1)** Deploy Template Edit

Template Summary

Type Application	Tenant Production	Template Status ✔ In Sync	Associated Fabrics <div style="display: flex; align-items: center;"> 1 <div style="margin-left: 5px;"> ✔ In Sync: 1 ✘ Out of Sync: 0 </div> </div>	Last Action ✔ Deployment Successful	Deployment Mode Multi-Fabric
				Last Deployed: Jan 3, 2025 10:28 pm	

Filter IMPORT SELECT Create

Application Profile DC-WEB Create Application Prof

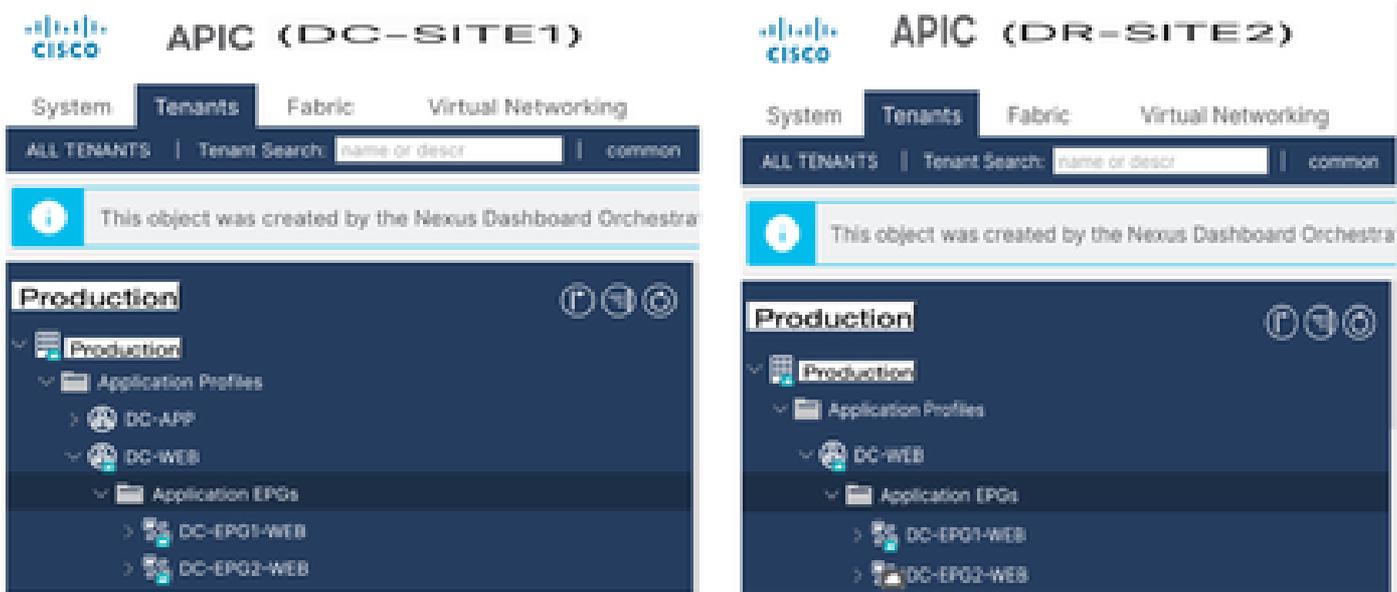
EPGs Create

DC-EPG2-WEB

Bridge Domains Create Bridge D

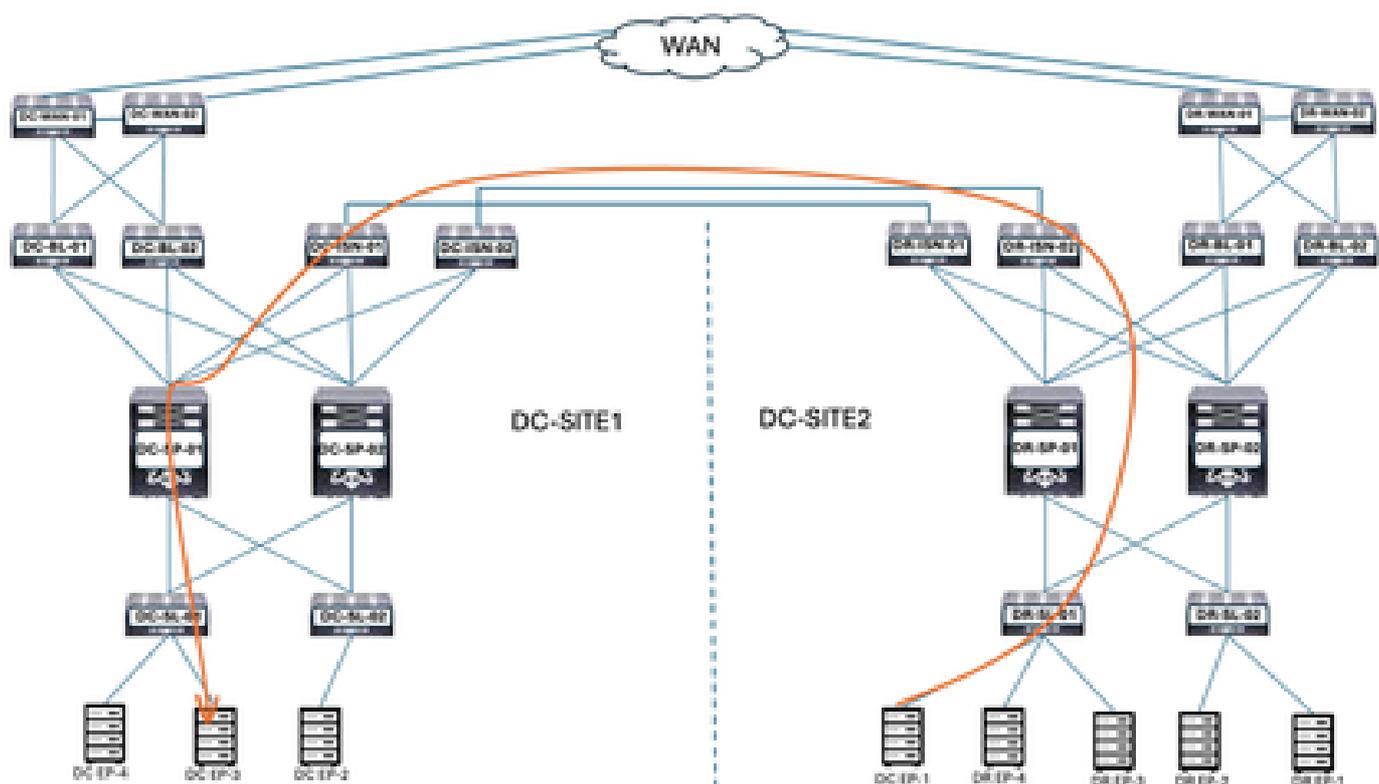
DC-BD2-WEB

Figura 53: DC-EPG2-WEB se implementa en ambos sitios
Shadow EPG para DC-EPG2-WEB creado en DR-SITE2



Flujo de tráfico entre EPG tras la migración a EP-1

Figura 54: Flujo de tráfico entre EPG tras la migración a EP-1



La comunicación entre DC-EP-1 y DC-EP-3 es una comunicación entre EPG, ya que ambos terminales pertenecen a DC-EPG1-WEB y DC-EPG2-WEB respectivamente. Esta comunicación se realiza a través de DC ISN a DR ISN Multisite/Overlay Links.

Respuesta de ping entre DC-EP-1 y DC-EP-3

Figura 55: Respuesta de ping entre DC-EP-1 y 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
```

Creación de Template-WEB-L3Out-Site1

Template-Web-L3Out-Site1 creado dentro de Schema-1. DC-SITE1 agregado a la plantilla y Tenant-Production asociado a la misma plantilla. Esta es una plantilla específica del sitio. Esta plantilla se utiliza para la comunicación entre VRF y entre DC-EP-1.

Figura 56: Agregar plantilla de aplicación: seleccione ACI Multi-Cloud

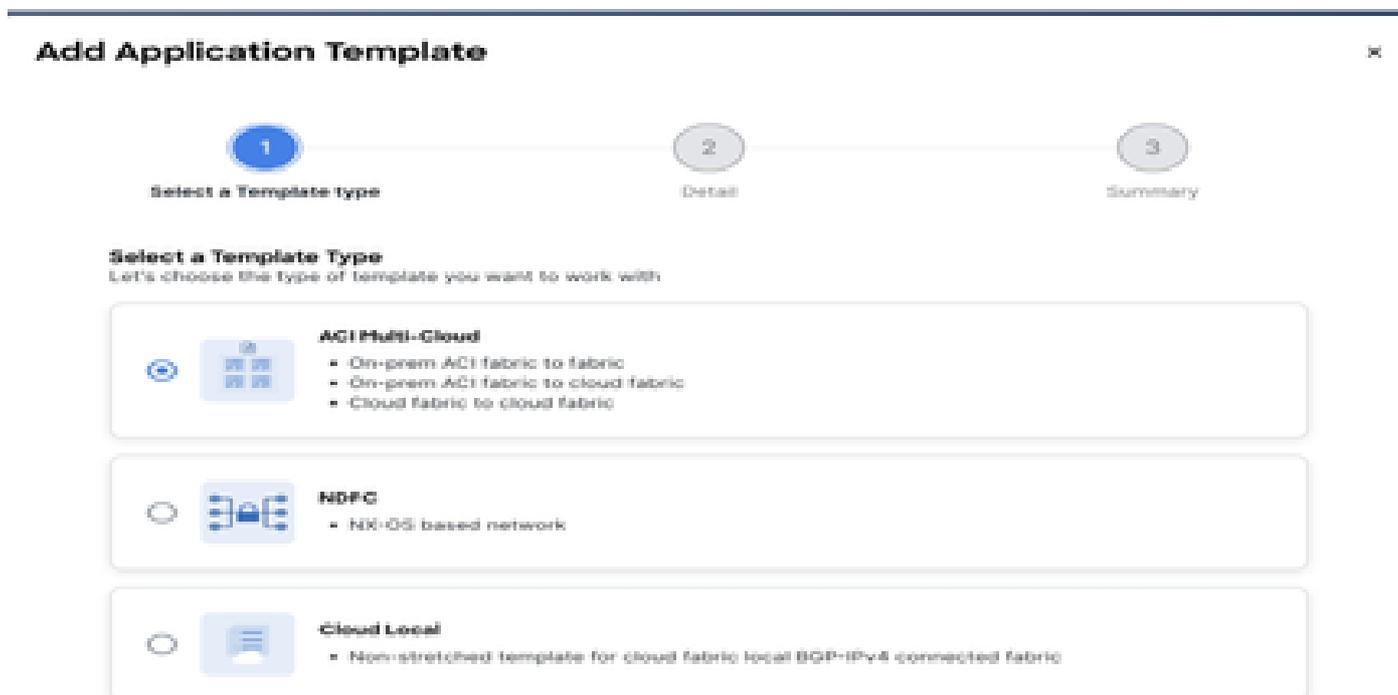


Figure 57: Agregar nombre de plantilla Template-WEB-L3Out-Site1, Seleccionar producción de arrendatario

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-WEB-L3Out-Site1

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

Select a Tenant ⌵

Production

Deployment Mode ⌵

Multi-Fabric

Autonomous

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

Figure 58: Detalles de Template-WEB-L3Out-Site1

Add Application Template

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](#)

Importar EPG externo y L3Out en Template-WEB-L3Out-Site1

Importar EPG externo y L3Out en Template-WEB-L3Out-Site1

Figura 59: Haga clic en Importar y seleccione 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 Last Action: Updated Deployment Mode: Multi-Fabric

Associated Fabrics: 0
In Sync: 0
Out of Sync: 0

IMPORT SELECT Create

DC-SITE1
DR-SITE2

Figura 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: Seleccione DC-APP-L3Out en DC-SITE1

Import from DC-SITE1 ✕

APPLICATION PROFILE 0 out of 2

EPG 0 out of 3

EXTERNAL EPG 1 out of 2

CONTRACT 0 out of 4

FILTER 0 out of 4

VRF 0 out of 2

BD 0 out of 3

L3-OUT 1 out of 2

DC-APP-L3Out
1 VRF

DC-WEB-L3Out
1 VRF

[Import](#)

Figure 62: Se importan los contratos asociados a EXT-WEB-EPG

Sombra de EXT-WEB-EPG creada en DR-SITE2 con contratos DC aplicados.

EXT-WEB-EPG

Virtual Routing & Forwarding

DC-VRF-WEB

Contracts

Name	Type	Actions
DC-EPG-TO-L3Out-WEB-COH	provider	
DC-EPG-TO-L3Out-WEB-COH	consumer	

[Add Contract](#)

Select Fabric Type

ON-PREM CLOUD

On-Premises Properties

L3Out

DC-WEB-L3Out

Subnets

Prefix/Prefix Length	Actions
0.0.0.0/0	

[Add Subnet](#)

[OK](#)

Deploy Template-WEB-L3Out-Site1

Haga clic en Deploy Template-WEB-L3Out-Site1 y seleccione DC-SITE1

Figure 63: Agregar estructuras a la plantilla-WEB-L3Out-Site1

Add Fabrics To Template-WEB-L3Out-Site1

Name

DC-SITE1
LOCK

DR-SITE2
LOCK

[OK](#)

Figura 64: Implementación de plantillas de sincronización

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 Fabricos
Template-WEB-L3Out-Site1	Application	1

1 items found

Rows per page 5 < 1 >

Cancel Deploy Out of Sync Templates

Figure 65: Implementación completada

Schema-1

Refresh Audit Logs Create New Template View Schema

View Template-WEB-L3Out-Site1

Template Properties CO-ARJC-LAB-SITE1

Template Summary

Type Application	Tenant Production	Template Status In Sync	Associated Fabricos 1	Last Action Deployment Successful	Deployment Mode Multi-Fabric
---------------------	----------------------	---	---------------------------------------	---	---------------------------------

Filter IMPORT - SELECT Create

External EPGs

EXT-WEB-EPG Create External

L3Outs

DC-WEB-L3Out Create

Verifique las rutas en la hoja del servidor DR para DC-VRF-WEB

Rutas estáticas instaladas en la hoja del servidor DR para DC-VRF-WEB.

Figura 66: Verifique las rutas en la hoja del servidor DR para DC-VRF-WEB

```

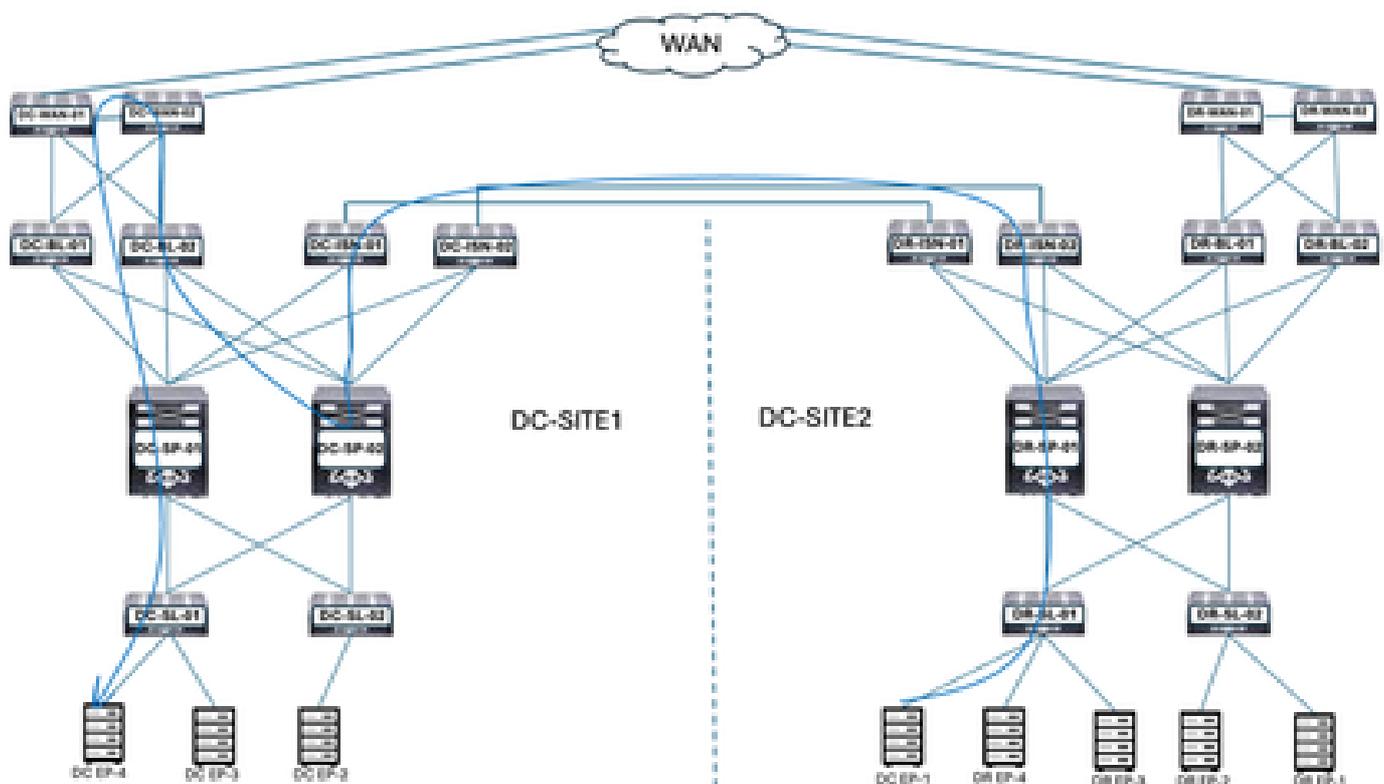
DR-SL-01# show ip route vrf Production:DC-VRF-WEB
IP Route Table for VRF "Production:DC-VRF-WEB"
'*' denotes best ucast next-hop
 '**' denotes best mcast next-hop
 '[x/y]' denotes [preference/metric]
 '%<string>' in via output denotes VRF <string>

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, rVnId: vxlan-2883589

```

Flujo de tráfico entre VRF después de la migración a DC-EP-1

Figura 67: Flujo de tráfico entre VRF después de la migración a DC-EP-1



DC-EP-1 utiliza DC-WEB-L3Out para comunicarse con DC-EP-4. El tráfico fluye de DR-ISP a DC-ISP Multisite Links, DC-ISP a DC-SP-01/DC-SP-02 y de DC-SP a DC-BL. DC-BL-01/DC-BL-02 reenvían el tráfico a los switches DC-WAN para el routing entre VRF.

Respuesta de ping entre DC-EP-1 y DC-EP-4

Figura 68: Respuesta de ping entre DC-EP-1 y DC-EP-4

```

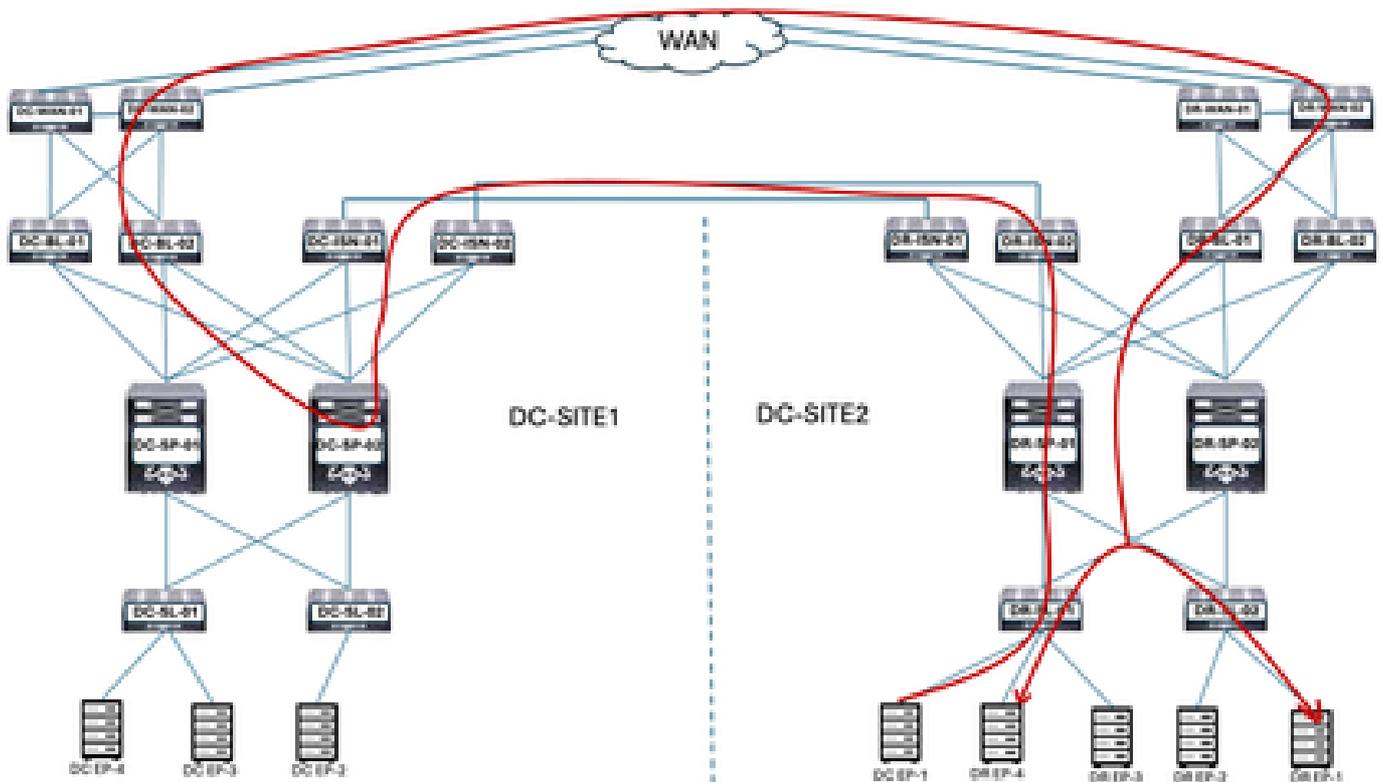
# ping 192.168.30.10 source 192.168.10.10 vrf site-1
PING 192.168.30.10 (192.168.30.10) from 192.168.10.10: 56 data bytes
64 bytes from 192.168.30.10: icmp_seq=0 ttl=249 time=1.781 ms
64 bytes from 192.168.30.10: icmp_seq=1 ttl=249 time=2.617 ms
64 bytes from 192.168.30.10: icmp_seq=2 ttl=249 time=1.288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

```

Flujo de tráfico entre DC después de la migración de DC-EP-1

Figura 69: Flujo de tráfico entre DC después de la migración de DC-EP-1



DC-EP-1 utiliza DC-WEB-L3Out para comunicarse con los terminales DR. El tráfico fluye de DR-ISR a DC-ISR Multisite Links, DC-ISR a DC-SP-01/DC-SP-02 y de DC-SP a DC-BL. DC-BL-01/DC-BL-02 reenvía el tráfico a los switches DC-WAN para los terminales DR.

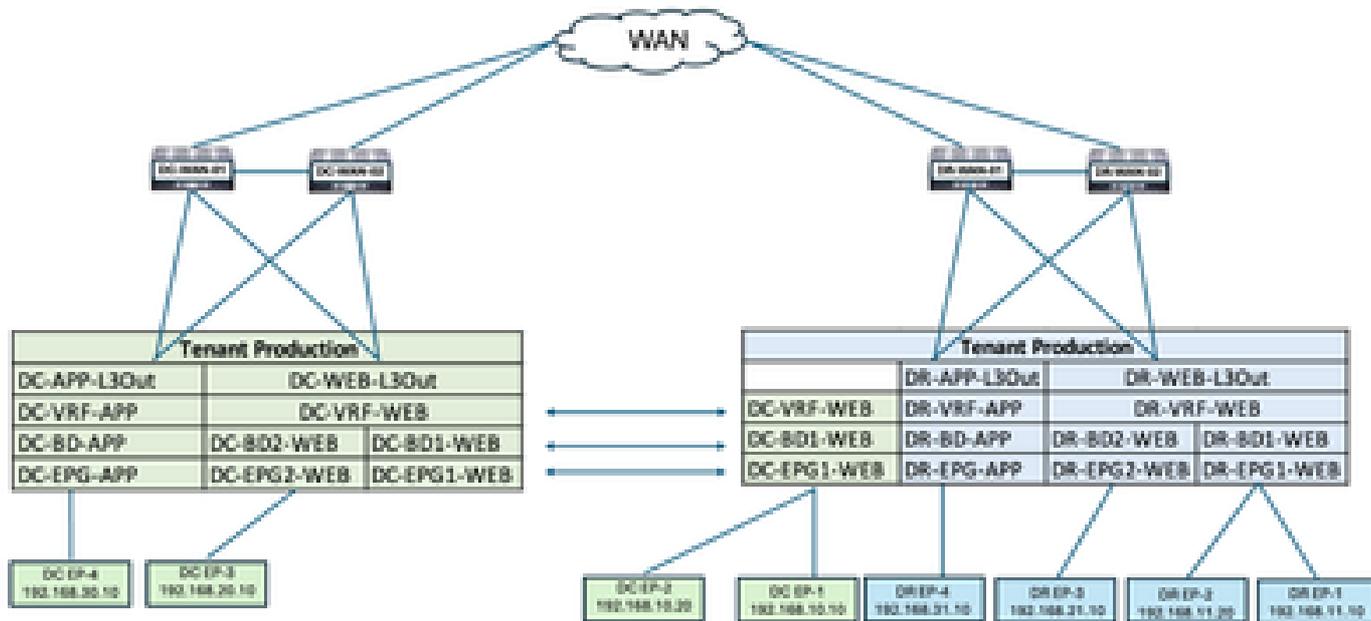
Respuesta de ping entre DC-EP-1 y DR-EP

Figura 70: Respuesta de ping entre DC-EP-1 y DR-EP

Diseño lógico después de la migración de los terminales restantes

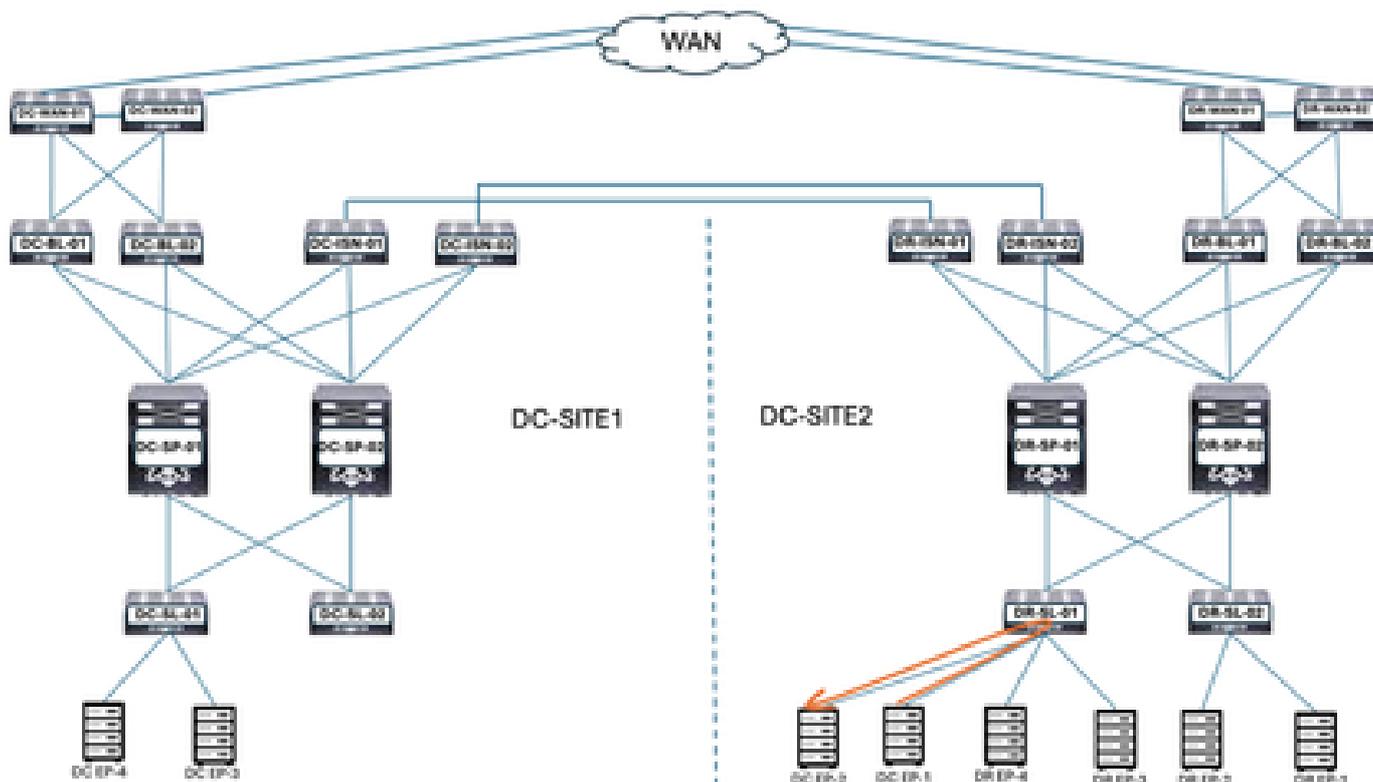
DC-EPG1-WEB, DC-BD1-WEB y DC-VRF-WEB ya se extienden entre los sitios de DC y DR. Los terminales restantes del DC migraron del DC al sitio DR.

Figura 72: Diseño lógico después de la migración de terminales restante



Flujo de tráfico dentro de EPG después de la migración de terminales restante

Figura 73: Flujo de tráfico dentro de EPG después de la migración de terminales restante



La comunicación entre DC-EP-1 y DC-EP-2 es una comunicación intra-EPG, ya que ambos terminales pertenecen a DC-EPG1-WEB. Esta comunicación se produce directamente dentro del sitio DR.

Los flujos de tráfico entre EPG, entre VRF y entre DC siguen siendo similares a la migración de DC-EP-1.

Anular implementación de plantilla-EPG1-BD1-ampliada del sitio de DC

Todos los terminales se migran del sitio DC al DR para DC-EPG1-WEB. DC-EPG1-WEB y DC-BD1-WEB no son necesarios en el sitio DC. Anule la implementación de la plantilla EPG1-BD1 ampliada del sitio de DC; de este modo, se eliminarán los EPG y BD del sitio 1.

Figura 74: Haga clic en Anular implementación de plantilla

Schema-1 Refresh Audit Logs Create New Template Save Schema

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

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

Template Summary

Type Application	Tenant Production	Template Status In Sync	Associated Fabrics 2 In Sync: 2 Out of Sync: 0	Last Action Deployment	Last Deployed 2025-05-07 pm
---------------------	----------------------	----------------------------	---	---------------------------	--------------------------------

Filter

Application Profile DC-WEB

EPGs
DC-EPG1-WEB

Bridge Domains Create Bridge E

- 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
- Tag

Figura 75: Seleccione DC-SITE1 y haga clic en Anular implementación

Undeploy Template-EPG1-BD1-Stretched

⚠ 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](#)

Disociar plantilla-EPG1-BD1-ampliada del sitio de DC

Este paso disocia Template-EPG1-BD-Stretched del sitio DC.

Figura 76: Haga clic en Disociar plantilla

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 0 ● Out of Sync 1	Last Action: ● Undeployed
				Last Deployed: 2025-05-11 pm

Filter:

Application Profile: DC-WEB

EPGs: **DC-EPG1-WEB**

Bridge Domains: [Create Bridge E](#)

- Add/Remove Fabric
- 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
- Tag

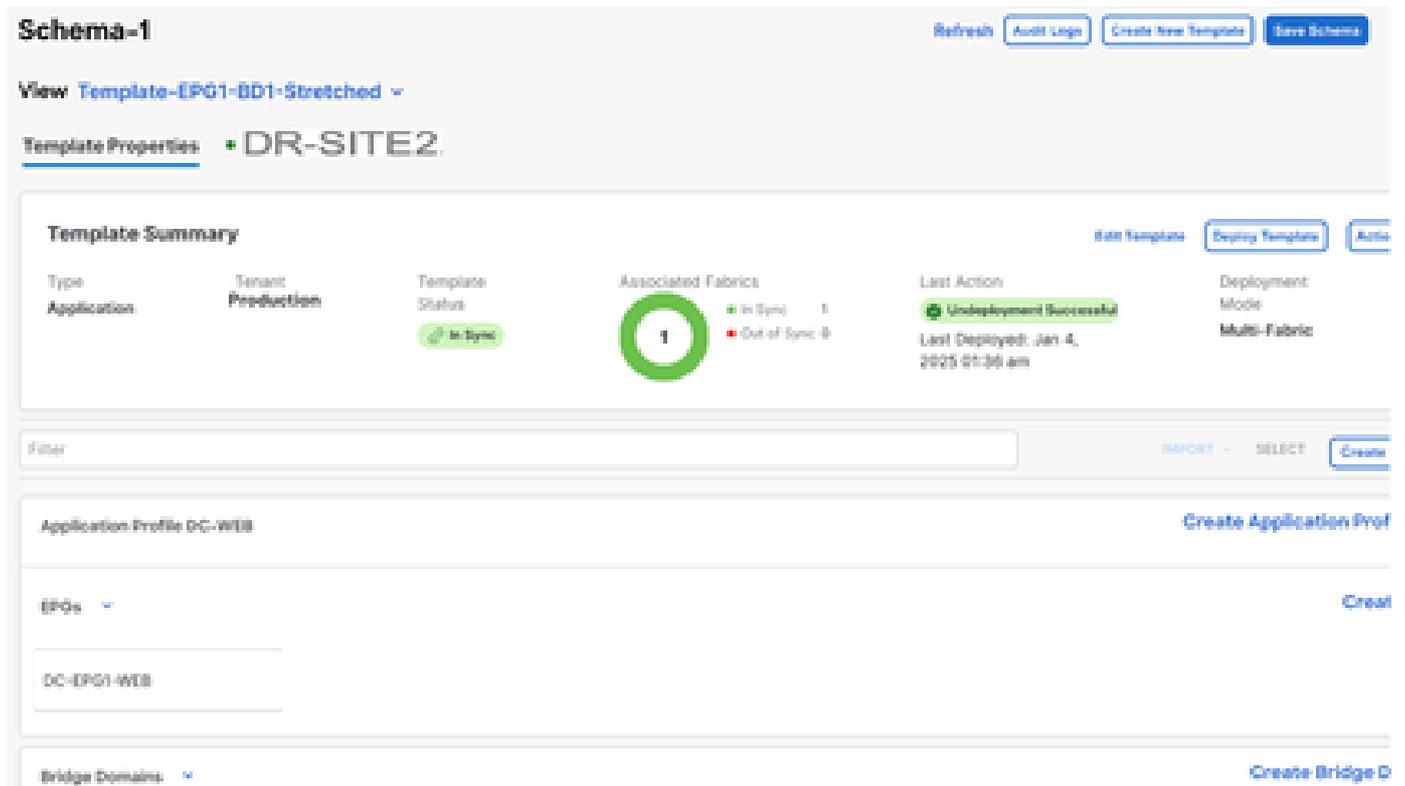
Figura 77: Desmarque DC-SITE1

Add Fabrics To Template-EPG1-BD1-Stretched

34



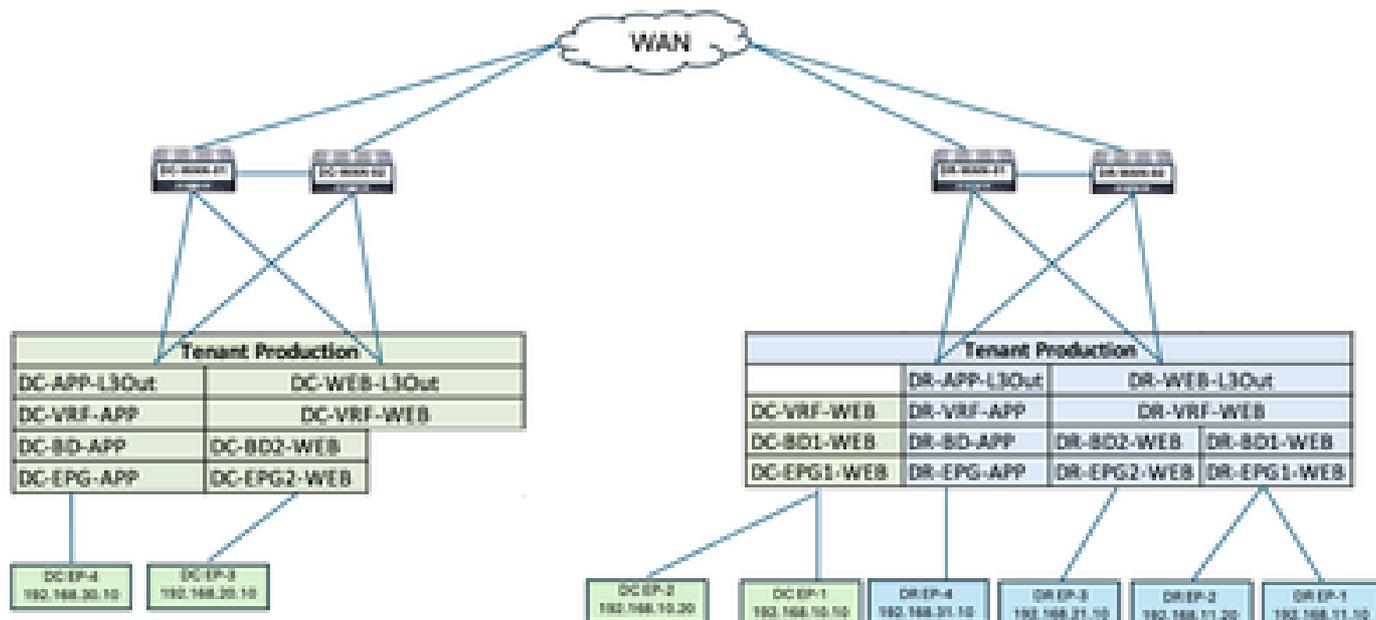
Figura 78: DC-SITE2 es parte de Template-EPG1-BD1-Stretched



Diseño lógico tras anular la implementación de la plantilla EPG1-BD1 ampliada desde el DC

DC-EPG1-WEB y DC-BD1-WEB no forman parte del sitio DC después de anular la implementación de la plantilla.

Figura 79: Diseño lógico después de anular la implementación de la plantilla



Creación de Template-VRF-Contract-Site2

Template-VRF-Contract-Site2 creado dentro de Schema-1. DR-SITE2 agregado a Template y Tenant-Production asociados a la misma Template. Esta es una plantilla específica del sitio. Esta plantilla se utiliza para asociar VRF y Contrato desde el sitio de DR para DC-EPG1-WEB y DC-BD1-WEB.

Figura 80:Add application Template (Agregar plantilla de aplicaciones): Seleccionar varias nubes de ACI

Add Application Template

30

Figure 81: Agregar nombre de plantilla Template-VRF-Contract-Site2, Seleccionar producción de arrendatario

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-VRF-Contract-Site2.

[Add Description](#)

Select a Tenant *

✕ ▾

Deployment Mode ⓘ

Multi-Fabric

Autonomous

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

Figure 82: Détails de Template-VRF-Contract-Site2

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

Importar VRF-Contract en Template-VRF-Contract-Site2

Importe DR-VRF-WEB y DR-VRF-WEB-Contract desde DR-SITE2.

Figura 83:Haga clic en Importar y seleccione 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;"> <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: Seleccionar contrato de DR-SITE2

Import from DC-SITE1 ✕

FAULT 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"/>
ED 0 out of 4		
L3OUT 0 out of 4		

Import

Figure 85: Seleccionar filtro de DR-SITE2

Import from DC-SITE1

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: Seleccione VRF en DR-SITE2

Import from DC-SITE1

X

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](#)

Figura 87: Template-WEB-VRF-Contract-Site2 con información de VRF/Contrato

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 Crea

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

Deploy Template-VRF-Contract-Site2

Haga clic en Deploy Template-VRF-Contract-Site2 y seleccione DR-SITE2

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

Add Fabrics To Template-VRF-Site2



Figure 89: Desplegar plantillas de sincronización

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: Implementación completada

Schema-1 Refresh Audit Logs Create New Template Save Schema

Type Application	Tenant Production	Template Status	Associated Fabrics	Last Action	Deployment Mode
		In Sync		Deployment Successful Last Deployed: Jan 4, 2025 01:57 am	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

Asociar DR-VRF-WEB a DC-BD1-WEB

Asocie DR-VRF-WEB a DC-BD1-WEB desde Template-EPG1-BD1-Stretched que se creó anteriormente. DC-BD1-WEB forma parte de DR-SITE2.

Figura 91: Haga clic en 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 Actio

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

Filter REPORT SELECT Create

Application Profile DC-WEB Create Application Prof

EPGs Creat

DC-EPG-WEB

Bridge Domains Create Bridge D

Figura 92: Asociar DR-VRF-WEB a DC-BD1-WEB

DC-BD1-WEB [View Relationship](#)

Annotations

Key	Value
+ Create Annotations	

Properties ^

[On-Premises Properties](#)

Virtual Routing & Forwarding ■

DR-VRF-WEB⌵

L3 Stretch

Inter-site BUM Traffic Allow

Optimize WAN Bandwidth

Unicast Routing

L3 Multicast

[OK](#)

Aplicación de DR-Contracts a DC-EPG1-WEB

Aplice DR-Contract a DC-EPG1-WEB, que utiliza contratos de DR para la comunicación desde DC-EPG1-WEB para Inter-DC, Inter-VRF e Inter-EPG. DC-EPG1-WEB forma parte de DR-SITE2

Figura 93: Eliminar contratos de DC de DC-EPG1-WEB

DC-EPG1-WEB [View Relationship](#)

Common Properties ^

Display Name ■

DC-EPG1-WEB

Deployed Name: DC-EPG1-WEB

Description

Annotations

Key	Value
+ Create Annotations	

Contracts

Name	Type	Actions
DC-EPG-TG-L3Out-WEB-COM	provider	✎ 🗑
DC-EPG-TG-EPG-WEB-COM	provider	✎ 🗑
DC-EPG-TG-L3Out-WEB-COM	consumer	✎ 🗑
DC-EPG-TG-EPG-WEB-COM	consumer	✎ 🗑

[+ Add Properties](#)

Figura 94: Agregar DR-Contracts en DC-EPG1-WEB

DC-EPG1-WEB [View Relationship](#)

Display Name *

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-L3Out-WEB-COM	consumer	edit delete
DR-EPG-TD-L3Out-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, 2021 01:52 am	Deployment Mode: Multi-Fabric
-------------------	--------------------	--	--	---	-------------------------------

Filter [IMPORT](#) [SELECT](#) [Create](#)

Application Profile DC-WEB [Create Application Profile](#)

EPGs [Create](#)

Bridge Domains [Create Bridge Do](#)

Figure 96: Implementación de plantillas de sincronización

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: Implementación completada

Schema-1

Refresh Audit Logs Create New Template Edit Template Deploy Template Auto

Template Summary

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

Filter EXPORT SELECT Create

Application Profile DC-WEB Create Application Prof

EPOs Create

DC-EPO1-WEB

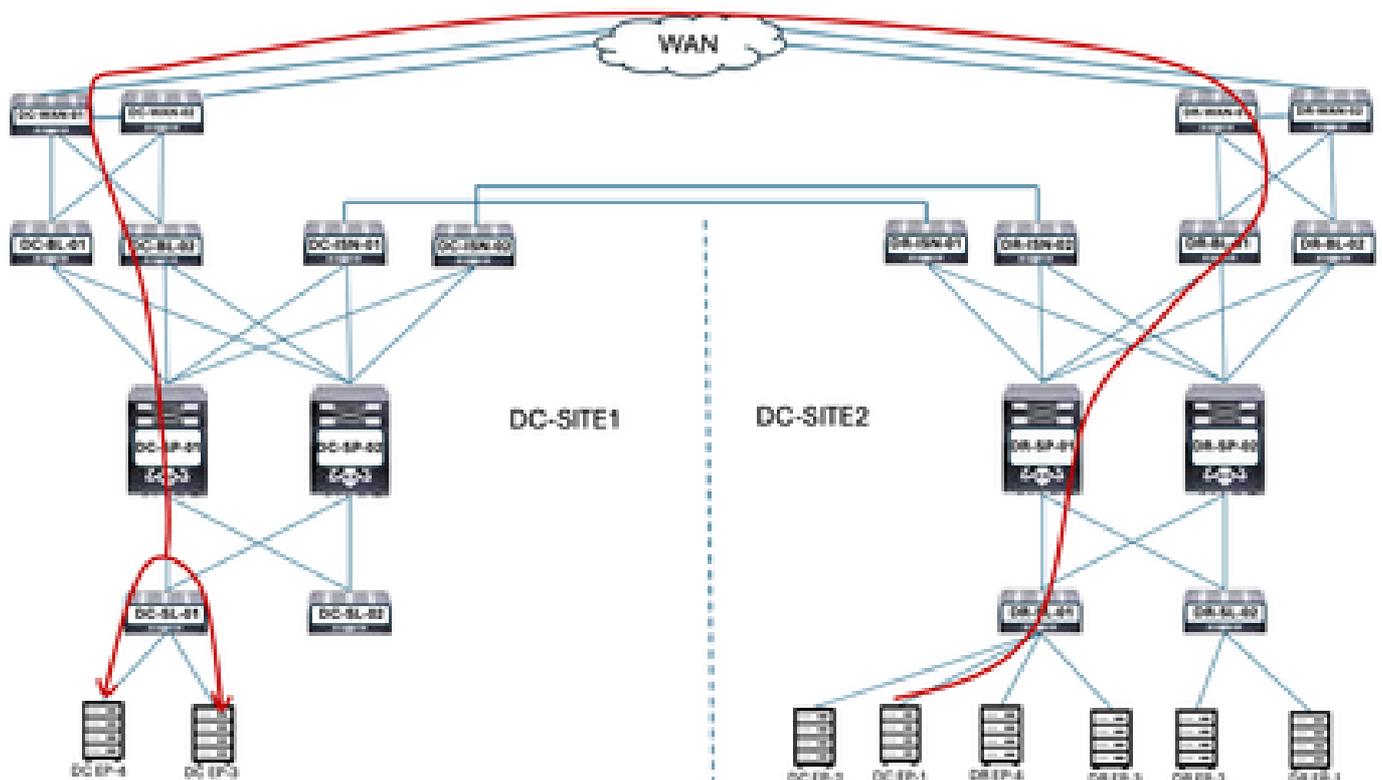
Bridge Domains Create Bridge E

DC-BD1-WEB

Flujo de tráfico de DC-Endpoint-1

DC-Endpoint-1 comienza a utilizar DR-L3Out-WEB para la comunicación con los terminales DC. Esta comunicación requiere los cambios de routing necesarios en los switches WAN.

Figura 98: Flujo de tráfico de DC-Endpoint-1



Respuesta de ping entre DC-EP-1 y DC/DR-EP

Figura 99: Respuesta de ping entre DC-EP-1 y DC-EP-2

```

SITE2-EP1# 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=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=1.863 ms
64 bytes from 192.168.30.10: icmp_seq=3 ttl=249 time=1.88 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=1.593 ms
64 bytes from 192.168.21.10: icmp_seq=2 ttl=252 time=1.816 ms
64 bytes from 192.168.21.10: icmp_seq=3 ttl=252 time=1.81 ms
64 bytes from 192.168.21.10: icmp_seq=4 ttl=252 time=1.848 ms

--- 192.168.21.10 ping statistics ---
5 packets transmitted, 5 packets received, 0.00% packet loss
round-trip min/avg/max = 1.81/1.231/1.593 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=1.814 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 = 1.814/1.265/1.485 ms
#####

```

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