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 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-P-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

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Ĵġ Admin	General Name Scheme-1	Description Schema-1	1	Audit Log Cerred 1	B Deleted D	Updated Q	Depkyed Ø	Other O

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

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0 345	• NX-OS based network	
0 🗏	Cleud Local Non-stretched template for cloud fabric local BOP-IPv4 connected fabric	

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

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Select a Template type	Detail	3 Summary
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Internal Name: Template-WEB-VIIF-Contract-Stretche Add Descr Dankewment Media (2)	ed lipstices	
Multi-Fabric		
Autonomous		
Del		Back

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

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5	iummary			
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	Details Template name		^	
	Deployment Mode Multi-Fabric			
	Tenant Production			
Cancel			Bask Continue to template	

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

Varage > Tenant Templates (Application) > Schema-1 Schema-1		Rafaqah Austi Loga Create Ken Tengtate Tercitates
	• Contail Spece	
		MATCHT - SELECT Create
		DC-SITE1 DR-SITE2

Figure 13: Select Contract from DC-SITE1

Import from DC-SITE1		x
POLICY TYPE	SELECT TO IMPORT Q. IMPORT RELATIONS	
APPLICATION PROFILE 0 out of 2	DC-EPG-TO-EPG-APP-CON 1 FILTER	
EPG 0 out of 3	DC-EPG-TO-EPG-WEB-CON	
EXTERNAL EPG 0 out of 2	DC-EPG-TO-L3Out-APP-CON 1 FILTER	
CONTRACT 2 out of 4	DC-EPG-TO-L3Out-WEB-CON	

Figure 14: Select Filter from DC-SITE1

Import from DC-SITE1		×
POLICY TYPE	SELECT TO IMPORT Q IMPORT RELATIONS	
APPLICATION PROFILE 0 out of 2	DC-EPG-TO-EPG-APP-FIL	
EPG 0 out of 3	DC-EPG-TO-EPG-WEB-FIL	
EXTERNAL EPG 0 out of 2	DC-EPG-TO-L3Out-APP-FIL	
CONTRACT 2 out of 4	DC-EPG-TO-L3Out-WEB-FIL	
PLTCR 2 out of 4		

Figure 15: Select VRF from DC-SITE1

Import from DC-SITE1		×
POLICY TYPE	SELECT TO IMPORT	IMPORT RELATIONS
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6P6 0 out of 3	C-VRF-WEB	
EXTERNAL EPO 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

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DC-VRF-APP	00-148	-woe			

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



Figure 18: Deploy out Sync Templates

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

Figure 19: Deployment completed

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VBPs ×					Crea
DC-VRF-APP	00-98	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

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0	348	NDFC • NX-OS based network	
0	Æ	Cloud Local Non-stretched template for cloud fabric local BGP-IPv4 connected fa 	toric

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

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Figure 23: Template-EPG1-BD1-Stretched Details

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Details		~
Template name Template-EP01-801-Stretched		
Deployment Mode Mutti-Pabrie		
Tenant Production		
cel		Back Continue to ter

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

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

Figure 24:	Click on	Import a	nd select	DC-SITE1
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					DC-SITE1 DR-SITE2

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

Import from DC-SITE1		x
POLICY TYPE	SELECT TO IMPORT Q IMPORT RELATION	S
APPLICATION PROFILE 1 out of 2	DC-EPG1-WEB	
EPG 1 out of 3	DC-EPG2-WEB	
EXTERNAL EPG 0 out of 2	DC-EPG-APP	

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

Import from DC-SITE1			×
POLICY TYPE	SELECT TO IMPORT	Q	PORT BELATIONS
APPLICATION PROFILE 1 out of 2	DC-BD1-WEB		
6P0 1-out-of 3	DC-BD2-WEB		
EXTERNAL EPO 0 out of 2	DC-BD-APP		
CONTRACT 0 out of 4			
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BO 1 out of 5			former.

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

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Figure 28: Add Gateway IP/Subnet

DC-BD1-WEB	Add New Subnet	×
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L2 Unknown Unicast		
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Deploy Template-EPG1-BD1-Stretched

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

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	CX-APUC-LAB-SITE2	
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Figure 30: Deploy out Sync Templates

Deploy Out of S	nc Templates	×
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Template-EPG1-BD1- Stretched	Application	2
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		Cancel Deploy Out of Sync Templates

Figure 31: Deployment completed

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DC-8D1-WEB				

Migrate DC-EP-1 from DC-SITE1 to DR-SITE2

Configure static binding in DR-SITE2 in DC-EPG1-WEB and associate DR-SITE2 Physical Domain. Migrate the DC-EP-1 from DC-SITE1 to DR-SITE2.

Figure 32: DC-EP-1 currently learned in DC-SITE1

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Figure 33: DC-EP-1 removed from DC-SITE1

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Figure 34: Adding Physical domain in DR-SITE2

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Figure 35: Adding Static Binding in DR-SITE2

Deploy Static EPG on PC, V	/PC, or Interface
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Figure 36: DC-EP-1 learned in DR-SITE2

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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: 1:49905577

*>e[2]:[0]:[0]:[48]:[4c4e.35f4.79c1]:[0]:[0.0.0.0]/216

172.16.0.13 0 65002 i

*>e[2]:[0]:[0]:[48]:[4c4e.35f4.79c1]:[32]:[192.168.10.10]/272

172.16.0.13 0 65002 i
```

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

Sele	1 et a Tempi	ate type Detail	3 Summary
Select Let's cho	a Templat	e Type pe of template you want to work with	
۲	8 8	ACI Hulti-Cloud • On-prem ACI fabric to fabric • On-prem ACI fabric to cloud fabric • Cloud fabric to cloud fabric	
0	3-6	NDFC • N00-DS based network	
0	用	Cloud Local Non-stretched template for cloud fabric local BGP/IPv4 connected fab	rie

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

		3
Select a Template type	Detail	Summary
Details		
Now name the template and select a tenant		
AGI Hulti-Cloud		
On-prem ACI fabric to fai On-prem ACI fabric to fai	orio and failurin	
Cloud fatoric to cloud fato	ric	
OENERAL		
Display Name *	Select a Tenant *	
Template-EPG2-8D2-Site1	Production	ж.
Internal Name: Template-EPG2:802:Site1	add Description	
Deployment Mode ()		
Multi-Patric		

Figure 45: Template-EPG2-BD2-Site1 Details

Select a Template type	Detail	- 3 Summary
Summary		
ACI Multi-Cleud On-prem AGI fabric to fabric On-prem AGI fabric to cloud fabric Cloud fabric to cloud fabric	Ηc	
Details		~
Template name Template-EP02-802-Ste1		
Deployment Mode Multi-Estoric		
Tenant Production		

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

Schema-1				Refresh (Aven Loge) (Creek	New Yorkston
View Template-I	(P02-802-5ite1 ~				
Template Propertie					
Template Sur	umary			Edit Terra	
Type Application	Tenant Production	Temptone Statue (C) Wassestate	Associated Fabrics	Last Action Vapland Last Deployed: Jan 8, 2025 09:47 pm	Deproyment Mode Multi-Patric
Filter				DC-SIT DR-SITI	El Application Prof

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

Import from DC-SITE1

POLICY TYPE	SELECT TO IMPORT Q IMPORT RELATIONS
APPLICATION PROFILE 1 out of 2	DC-EPG1-WEB
EPG 1 out of 3	CONTRACT • 1 8D
EXTERNAL EPO 0 out of 2	DC-EPG-APP

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

Im	port from DO	SITE1					×
	POLICY TYPE			ECT TO IMPORT	Q	IMPORT RELATIONS	
	APPLICATION PROFILE	1 out of 2		DC-BD1-WEB			
	829	1 out of 3	•	DC-8D2-WE8			
	EXTERMAL EP-9	0 out of 2		DC-BD-APP 1 VISF			
	CONTRACT	0 out of 4					
	FILTER	0 out of 4					
	VIIP	0 out of 2					
	80	1 out of 3					
						here	eert .

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

х

View Relationship

Display Name * Oc-POC-WEB-COM Compared Name CO-POC-WEB-COM Compared Name CO Co Compared Name Co	Common Properties			~
DC-EPO2-WEB Description Description Centrations Kay Value © Centra Annotations Do-EPO-TO-LSOUT-WEB-CONR Do-EPO-TO-LSOUT-WEB-CONR Do-EPO-TO-LSOUT-WEB-CONR Annotations Do-EPO-TO-LSOUT-WEB-CONR	Display Name *			
Description	0C-6PG2-WE8]	
Description Annotations Kay Value Or contractions	Deployed Name DC-0FG2-003			
Amendations Key Value © Create Amendations Contracts Name DC-EPO-TO-LBOU-WEB-CONR Age provider	Description			
Amontations Key Value © Create Amontations Contractos Contractos Name Do: SPO-TO-LSDust-WEB-ConsiR Ader servicient Do: SPO-TO-EDO-WEB-ConsiR Ader servicient Do: SPO-TO-EDO-WEB-ConsiR Ader servicient Do: SPO-TO-EDO-WEB-ConsiR Ader servicient Do: SPO-TO-EDO-WEB-ConsiR Ager servicient			1	
Areatations Key Wike © Create Annotations Contracts Name DC-EPG-TO-L30ut-WEB-CONR Dc-EPG-TO-EPG-WEB-CONR Tops printer Dc-EPG-TO-L30ut-WEB-CONR Tops printer Dc-EPG-TO-EPG-WEB-CONR Tops printer Dc-EPG-TO-EPG-WEB-CONR Tops printer				
Key Wice © Create Amountations Contracts Contracts Contracts Name 0° Create Amountations DC-EDG-TO-L30ut-WEB-CONR 0° B Dc-EDG-TO-EDG-WEB-CONR 0° B Dc-EDG-TO-L30ut-WEB-CONR 0° B	Report Minute			
Name Do: time. Availations Contracts Name Do: time. To: time. contR Tops provider Do: time. to: to: time. contR Tops (container Do: time. to: to: to: time. contR Tops (container Do: time. to:	Kau	Weber.		
Contracts Name DC-DPO-TO-L3Out-WEB-CON [®] Tote provider DC-DPO-TO-L3Out-WEB-CON [®] Tote provider DC-DPO-TO-L3Out-WEB-CON [®] Tote provider DC-DPO-TO-L3Out-WEB-CON [®] Tote container DC-DPO-TO-DDO-WEB-CON [®] Tote container DC-DPO-TO-DDO-WEB-CON [®] Tote container DC-DPO-TO-DDO-WEB-CON [®] Tote container	Create Avectations			
Name DC-EPO-TO-L3Out-WEB-CONR 0 Tops provider 0 DC-EPO-TO-EPO-WEB-CONR 0 Tops provider 0 DC-EPO-TO-L3Out-WEB-CONR 0 Tops provider 0 DC-EPO-TO-L3Out-WEB-CONR 0 Tops provider 0 DC-EPO-TO-L3Out-WEB-CONR 0 Tops provider 0 DC-EPO-TO-EPO-WEB-CONR 0 Tops tortaurer 0 DC-EPO-TO-EPO-WEB-CONR 0				
Name DC-EPG-TO-L3GW-WEB-CONR Tote prover DC-EPG-TO-EPG-WEB-CONR Tote prover DC-EPG-TO-L3GW-WEB-CONR Tote prover DC-EPG-TO-L3GW-WEB-CONR Tote consume DC-EPG-TO-EPG-WEB-CONR Tote consume Tote consume DC-EPG-TO-EPG-WEB-CONR Tote consume Tot	Contracts			
DC-EPG-TO-LIGOU-WEB-CONR 0 8 Tope provider 0 8 DC-EPG-TO-LIGOU-WEB-CONR 0 8 DC-EPG-TO-LIGOU-WEB-CONR 0 8 DC-EPG-TO-LIGOU-WEB-CONR 0 8 DC-EPG-TO-EPG-WEB-CONR 0 8 DC-EPG-TO-EPG-WEB-CONR 0 8 DC-EPG-TO-EPG-WEB-CONR 0 8 DC-EPG-TO-EPG-WEB-CONR 0 8	Name			
Tope provider view con R Tope provider view con R Tope provider view con R Tope consumer view con R	DC-EPG-TO-L3OwI-WEB-CON			4.0
DC-EPG-TO-EPG-WEB-CONR 2 Tops provider 2 DC-EPG-TO-L3Out-WEB-CONR 2 Tops consumer 2 DC-EPG-TO-EPG-WEB-CONR 2 Tops consumer 2	Type provider			0.9
tops provider // IS DC-EPG-TO-L3Out-WEB-CONR Tops consumer // IS DC-EPG-TO-EPG-WEB-CONR Tops consumer // IS	DC-EPG-TO-EPG-WEB-CONR			
DC-EPG-TO-L3Out-WEB-CONR Type: container DC-EPG-TO-EPG-WEB-CONR Type: container	Type provider			0 8
Type consumer 2 B	DC-EPG-TO-L3OM-WEB-CON			
DC-EPG-TO-EPG-WEB-CONR Type consumer	Type: consumer			08
Type consumer Of 18	DC-EPG-TO-EPG-WEB-CON			
	Topic consumer			0 8

Deploy Template-EPG2-BD2-Site1

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

	Figure 50:	Add Fabrics	s to Templa	ate-EPG2-B	D2-Site1
--	------------	-------------	-------------	------------	----------



Figure 51: Deploy out Sync Templates

Deploy Out of Sync Templates 34 The following templates will be deployed in the specified order **Out of Sync Templates** Filter by attributes **Template Name** Associated Fabrics **Template Type** Template-EPG2-BD2-Site1 Application 1 1 items found Rows per page $\mathbf{5}$ Cancel **Deploy Out of Sync Templates**

Figure 52: Deployment completed

Schema-1	• (DC-S	ITE1)		Refresh AutoLoga Couter	ter Terate
Template Sum Type Application	Sanary Production	Template Distus (2 th Million	Associated Fabrics • In Sync. 3 • Out of Sync. 8	Edit Tung Last Action Brightyment Buccessful Last Deployed: Jan 3, 2025 10:26 pm	tete (Puptry Tempista Anto Deployment Molto Multi-Patric
Filter					MPONT - SELECT Create
Application Profile	DC-WEB				Create Application Prof
DC-6P52-WE8					
Bridge Domains	w.				Create Bridge E
DC-802-WE8					

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

	# pir	g 192.1	68.20.1	0 source 19	(2.168.10)	10 vrf s	ite-1	
PING 19	92.168.2	10.10 (1	92.168.	20.10) from	192.168.	10.10: 5	6 data	bytes
64 byte	es from	192.168	.20.101	icmp_seq=0) ttl=252	time=1.4	98 ms	
64 byte	es from	192.168	.20.101	icmp_seq=3	ttl=252	time=1.2	55 ms	
64 byte	es from	192.168	.20.101	icmp_seq=2	ttl=252	time=1.1	29 ms	
64 byte	es from	192.168	.20.101	icmp_seq=3	ttl=252	time=1.0	84 ms	
64 byte	es from	192.168	.20.101	icmp_seq=4	ttl=252	time=1.5	37 ms	
192	2.168.20	10 pin	g stati	stics				
5 packs	ets tran	smitted	. 5 pac	kets receiv	ed, 0.00%	a packet	loss	
round-1	trip min	/ava/ma	$\alpha = 1.0$	84/1.3/1.53	7 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

Add Applicat	ion Template			×
Select a To	mplate type	2 Detail	3 Summary	
Select a Tem Let's choose th	plate Type a type of template you want to work w	with		
• *	AGI Multi-Gloud • On-prem ACI fabric to fabric • On-prem ACI fabric to cloud f • Cloud fabric to cloud fabric	fabric		
0 3 -	NDFC • NX-OS based network			
0	Cloud Local Non-stretched template for c	cloud fabric local BOP-IPv4	connected fabric	

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

Add Application Template

Select a Template type	Detail	3 Summary
Details		
ACI Multi-Cloud On-prem ACI fabric to fabric On-prem ACI fabric to cloud fabric Cloud fabric to cloud fabric	ric	
OENERAL Display Name	Select a Tenant *	
Template-WEB-L3Out-Site1 Internal Name: Template-WEB-L3Out-Site1 Add Dec	Production	× ~
Deployment Mode ① Multi-Fabric Autonomous		
		Dack

Figure 58: Template-WEB-L3Out-Site1 Details

Add .	Application Template			E Contraction de la contractica de la contractic
	Select a Template type	Detail	Bummary	
	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-Pabrie Tenant Production			
Cancel			Back Contin	ue 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 Auth Lops	Create New Template
Template Propertie	5				
Template Sum	mary			I	Edit Template Duploy Template A
Туре	Tenant.	Template Status	Associated Fabrics	Last Action	Deployment Mode
Application	Production	() Unemociated	0 • In Sync = 0 • Out of Sync #	Notestand (Multi-Fabric
					MPORT ~ SELECT Cruz
				D	G-SITE1 R-SITE2
gure 60:Sele	ect EXT-APP-I	EPG from DC-SI	TE1		

Import from DC-SITE1		x
POLICY TYPE	SELECT TO IMPORT	IMPORT RELATIONS
APPLICATION PROFILE 0 out of 2	EXT-APP-EPG DC-APP-LISOUT 2 CONTRACT • 1 VRF • 1 LISOUT	
EPG 0 out of 3	EXT-WEB-EPG DC-WEB-L3OUT 2 CONTRACT + 1 VRF + 1 L3OUT	
EXTERNAL EPG 1 out of 2		

Im	port from DC	C-SITE1					×
	APPLICATION PROFILE	0 out of 2	L30 com	iut im piete	port into Application Template will only import empty L: a config.	Out container and not	
	EP-0	0 out of 3		٠	DC-APP-L3Out 1 VRF		
	ECTERNAL EPG	1 out of 2	×	•	DC-WEB-L3Out 1 VRF		
	CONTRACT	0 out of 4					
	FILTER	0 out of 4					
	AIR	0 out of 2					
	80	0 out of 3					
	LBOUT	1 ovt 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.

EXT-WEB-EPG

View Relationship

Virtual Routing & Forwarding 🗮 *	
DC-VRF-WEB	Xv
Contracts	
Name	
CC-EPG-TO-L30M-WEB-CON	0 E
Type: provider	0 0
DC-EPO-TO-L30vir-WEB-CON	2 Ê
Type: consumer	0.0
Add Contract	
Select Fabric Type	
0.000	
On-Premises Properties	
L30vr	
DC-WEH-3DM	Xu
Subnets	
Prefix/Prefix Length	
0.0.0/0	08
O Ant barret	

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



Deploy Out of Sync Templates

The following templates will be deployed in the specified order

Out of Sync Templates

'emplate Na	ime	Template Type	Associated Fabrics
emplate-W	EB-L3Out-Site	1 Application	1
tems found		Roy	wsperpage 5 \vee < 1 $>$
ure 65: Dej	oloyment com	pleted	Cancel Deploy Out of Sync Template
:hema-1			Refresh (Autt Legs) Crede See Template) Level bit
:hema-1 rw Template-V	/EB-L3Out-Site1 ~		Refresh Auth Logs Create New Temptate Sector
chema-1 rw Template-V mplate Propertie	CX-APJC-LAB-	SITE1	Rafresh (Auth Logs) (Crack New Template) (Loca Lab
chema-1 rw Template-V mplate Propertie Template Sum	• CX-APUC-LAB-	SITTE1	Rafresh Auti Loga Create New Temptate Eccelor Edit Temptate (Reptry Temptate
chema-1 rw Template-V mplate Propertie Template Sum Type Application	CX-APUC-LAB- CX-APUC-LAB- mary Tenant Production	STTE1 Template Associated Fabrics Status In Sys Out of	Refresh Autt Lopa Creek New Templeis Rev 100 Edit Templeis Deployment Last Action Deployment Mode Nym: 0 Last Deployment Seconsels Multi-Fabric 2005 10:15 pm
chema-1 rw Template-V mplate Propertie Template Sum Type Application	ACX-APUC-LAD- mary Tenant Production	arres Template Associated Fabrics Status In type In template	Refresh Autt Loga Creek New Temptels Rev 14 Edit Temptels Deployment Last Action Deployment Mode Last Deployment Becomenta Sym: 0 Last Deployment Seconseta Last Deployment Seconseta Secons 2005 10:15 pm Marcer - 10022
chema-1 rw Template-W mplate Propertie Template Sum Type Application	CX-ARJC-LAB- CX-ARJC-LAB- mary Tenant Production	STTE1 Template Associated Fabrics Status Control 1 • Out of	Refresh Autt Lop Create New Tempters Rev 101 Centr Tempters Genery Tempters Centr Tempters Genery Tempters Last Action Central Mode Last Action Multi-Febrie Septoyment Seconselet Last Deptoyent Jan 3, 2025 10:15 pm Multi-Febrie Create
chema-1 rw Template-V mplate Propertie Template Sum Type Application	CX-ARUC-LAB-	STTE1 Semplate Status Internet Internet Status Internet Internet Status	Refresh Autt Lop Create New Tempter Res 10 Edit Tempter Orectory Tempter Last Action Deployment Last Action Deployment Last Action Multi-Fabric Symp 0 Last Deployment Seccensels Multi-Fabric BEROLT - SULCT Create

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



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-ISN to DC-ISN Multisite Links, DC-ISN 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
5ITE2-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-ISN to DC-ISN Multisite Links, DC-ISN 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

```
SITE2-0F1# ping 192,168,11.10 source 192,168,10.10 vrf site-1
PIME 103.168,11.10 (192,168,11.10) from 192,168,10.10 is of data hytes
Request 0 times out
64 bytes from 192,168,11.10 (cmp_seq-1 til-200 times1.265 ms
64 bytes from 192,168,11.10 (cmp_seq-1 til-200 times1.726 ms
64 bytes from 192,168,11.20 (cmp_seq-1 til-200 times1.714 ms
64 bytes from 192,168,11.20 (cmp_seq-1 til-200 times1.601 ms
64 bytes from 192,168,11.20 (cmp_seq-1 til-200 times1.601 ms
64 bytes from 192,168,11.20 (cmp_seq-2 til-200 times1.601 ms
64 bytes from 192,168,21.10 (cmp_seq-1 til-200 times1.200 ms
64 bytes from 192,168,21.10 (cmp_seq-1 til-200 times1.201 ms
64 bytes from 192,168,31.10 (cmp_seq-1 til-200 times1.201
```

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 remianing 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

Schema-1				Refresh Aud	Course New Template	ichema (
View Template-I	EPG1-8D1-Stretche	id v				
Template Properti	DC-SI	E1 •DR-S	ITE2			
Template Sun	nmary			(Add/Remove Fabrics	Activ
Type	Tenant	Template	Associated Fabrics	Last Action	Disassociate Fabric	
Application	Production	Status	th first 2	· Deployment 1	Clone Template	
		C. a sheet		2025-05-07 pm	Undeploy Template	
					Delete Template 🔺	
Eller					View Deployed Configuration	
1.000					View Deployment Dependencies	
Application Profile	DC-WEB				View Deployment Plan	• Prof
					Reconcile Configuration Drifts	
E004 X					View Version History	Creat
					Roll Back Version	
DC-EPQ1-WEB					Tag	
Bridge Domains	*				Create	Dridge C

Figure 75: Select DC-SITE1 and Click undeploy

Undeploy Template-EPG1-BD1-Stretched

*	Undeploying this t any functionality is	emplate will permenant 366.	ly remove applied p	olicies from	selected fabr	ic. Review an	d take measu	ne to prevent
toria IC-S	ITE1			1				
				,				
D	an C-SITE1	_		OCreated	Obeleted	OModified	OExisting	Shadow
					0	View Payload	Downto	ad Payload
0		O ano: 00-WEB	• epideation DC	6P01	naincdomain			
	and a state of the	- 0 63-00-001-WEB		10.1				

Dissociate Template-EPG1-BD1-Stretched from DC Site

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

Schema-1 Rafrash (Ault Logs) (Create New Temptote) View Template-EP01-BD1-Stretched ~ Template Summary Aste Add/Remove Fabrics Disassociate Pabric Last Action Type Temptate Status ed Fabrica Production artine. 1990 In Syne N
 Out of Syne N O Understope **Clone Template** Last Deployed: 2025-05/11 pm C Out Of Sys. 2 Undeploy Template Delete Template 🔺 View Deployed Configuration Filter ireate View Deployment Dependencies View Deployment Plan Peol Application Profile D/C-WEB Reconcile Configuration Drifts View Version History CPOs -Crear Roll Basis Version Tag DO-EPS3-WEB Create Bridge C Bridge Domains 🛛 👻

Figure 76: Click on Dissociate Template

Figure 77: Uncheck DC-SITE1

Undeptoy

Add Fabrics To Template-EPG1-BD1-Stretched



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

Schema-1				Refresh Austi Logo Croste See Template Bere Science			
View Template-EPG	1-BD1-Stretche	d v					
Template Properties	DR-SI	TE2					
Template Summa	ny .			date face	plate (Depity Template) (Actio		
Type Application	Tenant Production	Template Status	Associated Fabrics It Sync 1 Out of Sync 0	Last Action G Undeployment Successful Last Depityent: Jan 4, 1007 41-34 am	Deployment Mode Multi-Fabric		
Filter					natori - SILICT Cours		
Application Profile DC-1	wto				Create Application Prof		
tPOs -					Creat		
DC-0261-W08							
Bridge Domains 💌					Create Bridge D		

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

OR.



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		ж
1 Select a Templa	Detail	Summary	
Select a Templat Let's choose the typ	e Type e of template you want to work with		
• • • • • • • • • • • • • • • • • • •	AGI Multi-Gloud • On-prem ACI fabric to fabric • On-prem ACI fabric to cloud fabric • Cloud fabric to cloud fabric		
 ⇒€ 	NDFC • NO-OS based network		
0 🔳	Cloud Local • Non-stretched template for cloud fabric local BOP-IPv4 connected fi	abric	

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

Ado	d Application Template	×
	Select a Template type 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 * Select a Tenant * Template-VRF-Contract-Site2 Production	x v
	Internal Name: Template-VRF-Contract-Site2. Add Description	
	Deployment Mode ③ Multi-Fabric	
Cance	cel	Back Next

Figure 82: Template-VRF-Contract-Site2 Details

Add Application Template



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 Stree Libro	
View Template-	VRF-Contract-Site2	i v				
Template Sun Type Application	Tonant Production	Template Status	Associated Fabrics • In Sync 0 • Out of Sync 0	Lief Action	Edit Template Deploy Template Deployment Mode Multi-Pabric	Action
				DC	SHORT - SELECT (C-SITE1 R-SITE2	Create OI



port from [DC-SITE1		
APPLICATION PROF	LE 0 out of 3	DC-EPG-TO-EPG-WEB-CON	
EPO	0 out of 4	DC-EPG-TO-L3Out-WEB-CON	
EXTERNAL EPG	0 out of 4	DR-EPG-TO-EPG-APP-CON 1 FILTER	
CONTRACT	2 out of 6	DR-EPG-TO-EPG-WEB-CON 1 FILTER	
FLYER	2 out of 6	DR-EPG-TO-L3Out-APP-CON 1 FILTER	
VBF	0 out of 4	DR-EPG-TO-L3Out-WEB-CON 1 FILTER	
80	0 out of 4		
LIGUT	0 out of 4		

Figure 85: Select Filter from DR-SITE2

Import from DC-SITE1

APPLICATION PROFILE	0 out of 3	DC-EPG-TO-EPG-WEB-FIL	
62-0	0 out of 4	DC-EPG-TO-L3Out-WEB-FIL	
EXTERNAL EPG	0 out of 4	DR-EPG-TO-EPG-APP-FIL	
CONTRACT	2 out of 6	DR-EPG-TO-EPG-WEB-FIL	
FILTER	2 out of 6	DR-EPG-TO-L3Out-APP-FIL	
VRF	0 out of 4	DR-EPG-TO-L3Out-WEB-FIL	
BD	0 out of 4		
LBOUT	0 out of 4		

Figure 86: Select VRF from DR-SITE2

Import

Import from DC-SITE1

APPLICATION PROF	RLE Coutof3	DC-VRF-APP	
EPO	0 out of 4	DC-VRF-WEB	
EXTERNAL EPO	0 out of 4	DR-VRF-APP	
CONTRACT	2 out of 6	DR-VRF-WEB	
FILTER	2 out of 6		
VRF	1 out of 4		
80	0 out of 4		
L3OUT	0 out of 4		

Import

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

Schema-1	Rafresh Andt Loga Create New Templete Bave Buhama
	O · busilier 1
Filter	MATCHT - SELECT Count
Contracts ~	Create Co
DR-EPO-TO-EPO-WEB-CON CON	
VB#s ~	Crea
DR-VRF-W08	
Filters 👻	Creat
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



 \mathbf{X}_{i}

1 items found	Rows per page	5)	<	1	>
	Gancel	0	Deploy Out	of Syr	nc Temp	lates

Figure 90: Deployment completed

Schema-1				Refresh AutoLoga Co	nto New Temptate
Type Application	Tenant Production	Template Status (2 in Symc)	Associated Fabrics 1 • In Sync 1 • Out of Sync 0	Last Action Deployment Reconsolut Last Deployed: Jan 4, 2025 0157 am	Depicyment Mode Multi-Fabric
Filter					MPORT - SELECT Create
Contracts ~					Create Co
DR-EPG-TO-EPG-V	DR-EP CON	G-TO-L3Out-WEB-			
V865 *					Crea
DR-VRF-INEB					
Filters *					Creat
DR-EPG-TO-EPG-V	CR-EP FIL	G-TO-L3Dvt-WEB-			

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 Loge Create New Template Bare Bohame				
View Template-EP	• DR-SI	d ~ ΓΕ2.						
Template Summ	ary			Edit Temple	te (Deptoy Temptate) (Action			
Application	Production	Status (2 in Synt)	Associated Factors * Is Sync 1 • Out of Sync 0	Lett Action Challengingment fluoresentat Lett Deployed: Jan 4, 2025 01:36 am	Mode Multi-Fabric			
Filter					mont - SELECT Create			
Application Profile 0-0	w00				Create Application Prof			
EPGs 👻					Creat			
oc-cros-wite								
Bridge Domains 👒					Create Bridge D			

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

DC-BD1-WEB

Annotations		, ,
Key	Value	
Create Annotations		
Properties		~
On-Premises Properties		
Virtual Routing & Forwarding 🖪 *		
DR-VRF-WEB		$X \sim$
L2 Stretch		
Intersite BUM Traffic Allow		
1. Contract (1. Co		
Optimize WAN Bandwidth		
Unicant Routing		
L3 Multicast		
		_

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 Relationshi
Common Properties		~
Display Name		
DC-EPG1-WEB		
Deproyed Name, DC-UPO1-WEB		
Description		
Annotations		
Key	Value	
Create Ametations		
Contracts		
Name		
DC-EPG-TO-L3OW-WEB-CON		A 0
Type: provider		0 8
DC-EPG-TO-EPG-WEB-CON		4.0
Type: provider		0 0
DO-EPG-TO-L3Out-WEB-CON		4.0
Type: consumer		6.8
DC-EPG-TO-EPG-WEB-CONR		
Type: consumer		0 8
· · · · · · · · · · · · · · · · · · ·		

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

View Relationship

DC-EPG1-WEB	

Display Name *		
DC-EPG1-WEB		
Deptyed Name: DC-0701-WEB		
Description		
Amostations		
Rey	Value	
Create Annotations		
Contracts		
Name		
DR-EPG-TD-EPG-WEB-CON		A 0.
Type: consumer		6° B
DR-EPO-TO-EPO-WEB-CON		
Typet provider		0 0
DR-EPO-TO-L30ut-WEB-CON		
Type: consumer		0 0
DR-EPO-TO-L3Ove-WEB-CON		
Type: provider		0 0
Add Contract		
EPG Type		
Application Service		
		0

Figure 95: Template-EPG1-BD1-Stretched information

Schema-1	DR-SI	Refresh AutoLoga	Refresh (Antil Loga) (Create New Temptate) Deschioner		
Template Sum	unary	Territo	In contract of the later	Last Artist	Ealth Template (Depity Template) (Action
Application	Production	Status O Out Of Syn	1 to Spec 4 Out of Spec 1	Last Deployed: Jan 4, 2025 01.52 am	Muto-Pabrie
Filter					MPORT - SUUCT Create O
Application Profile	DC-WEB				Create Application Profile
EPGs ¥					Create
DC-EPG1-WEB					
Bridge Domains	*				Create Bridge Do
DC-801-WE8					

Figure 96: 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-EPG1-BD1- Stretched	Application	1			
1 items found		Rows per page 5 \sim 1 >			
		Cancel Deploy Out of Sync Templates			

Figure 97: Deployment completed

		Refresh Awit Loga Crusis New Template			
Template Summary Date Summary					
Tenant Production	Template Status (2 th Spin)	Associated Fabrics • In Sync 1 • Out of Sync 0	Lest Action Graphyment Successful Lest DepRoyect: Jan 4, 2025 02:02 am	Deployment Mode Multi-Fabriq	
				MPORT - SELECT Create	
2-wte				Create Application Prof	
				Creat	
				Create Bridge C	
	ary Terant Production	ary Tenant Tempine Production Datus 2-WEB	ary Tenant Template Associated Fabrics Production Distus 3-W08	Arry Last Last Action Production Status (* In type) (*	

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 192.168.38.10 source 192.168.10.10 vrf site-1 Ping 192.168.38.10 (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=1.05 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 = 0.987/1.317/2.406 ms SITE2-EP1# SITE2-EP1# ping 192.168.11.10 source 192.168.10.10 vrf site-1 PING 192.168.11.18 (192.168.11.18) from 192.168.18.18: 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=1.107 ms ---- 192.168.11.10 ping statistics -5 packets transmitted, 4 packets received, 20.00% packet loss round-trip min/avg/max = 0.993/1.288/1.615 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=1.016 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 = 1.01/1.231/1.593 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=1.014 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 = 1.014/1.205/1.485 ms

the second se