

Stretched VRF Use Case

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About the Stretched VRF Use Case

Stretched VRF (intra-VRF) is a common use case where a single (common) VRF is defined in a template that is associated to all the sites (on-premises and cloud sites). A separate template is used to deploy networks for the on-premises site since it is not possible to stretch networks between on-premises and cloud sites.

Stretching the same VRF to all the sites enables the exchanging of prefixes between the sites without having the requirement of any additional routing configuration. CIDR blocks (used to provision subnets in cloud VPCs/VNets) are mapped to this stretched VRF.



Note Stretching a Layer 2 subnet across on-premises and cloud sites or between cloud sites is not supported.

The following figure shows two templates being created under the Demo schema:

- The Stretched Template, which defines the VRF to be deployed to all three sites. For cloud sites, we define the regions and CIDR blocks under the VRF.
- The on Prem Template, which contains the networks to be deployed to the on-premises VXLAN fabric.

Figure 1:



Configure the Stretched VRF Use Case

Step 1 In NDO, navigate to Application Management > Schemas and click Add Schema.

Figure 2:

≡ cisco Nexus Dashbo	Dard . Orchestrator ~	Feedback 上 🗨
 Dashboard Sites Application Management 	Schemas Fiter by attributes	ن المط schuma
Fabric Management Operations Infrastructure Integration	No Da	ta Found

Step 2 Provide the schema name and click **Add**.

For this use case, we will name the new schema Stretched Schema.

Figure 3:

Untitled Schema				
View Overview ~				
Overview				
General	/ Audit Lo	gs		
	Created	Deleted	Updated 0	Deploye 0
	General	×		
Sites	Name *			
	Stretched			
APIC 0 NDFC 0	Description	Sync 0 ut of Sync 0		
AWS AVS Acure Google Cloud Platform 0		Add		
		_		

You are returned to the Overview page for the new Stretched Schema schema.

Step 3 Click Add New Template.

Figure 4:

≡ cisco Nexus Da	shboard 🏩 Orchestrator	×						Feedback 💄
Stretched Schema							0 / 100	0 Objects Save Schema () X
View Overview ~ ^{Overview}								Add New Template
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Application Managem • Application Profiles (0) • Filters (0)	• EPGs (0) • External EPGs (0)	Contracts (0) L3Outs (0)	VRFs (0) Service Graphs (0)	Bridge Dom Networks ((ains (0) 0)			0 Total Objects
Topology								

Step 4 Choose the NDFC template, then click **Add**.

You should use the NDFC template type for on-premises as well as cloud sites.

Figure 5:

≡ •IIIIII Nexus Dashboard Orche	trator ~		Feedback 💄 💿
Stretched Schema			0/1000 Objects Save Schema CD 🗙
View Overview ~			Add New Template
Overview	Select a Template type	×	
General Name Description Stretched Scheme			Deployed Other 0 0
Arrive O Gongie Cloud Parton	ACI Multi-Cloud • On-prem ACI site to site • On-prem ACI site to cloud site • Cloud to cloud site	Sale to site etwork.	
Application Management		Add	
Application Profiles (0) EPOs (0) Esternal EPOs (0)	Contracts (0) CONTRACTS (0) CONTRACTS (0) CONTRACTS (0)	EndgeContent (0) Finiversity (0)	

Step 5 Enter a name in the **Display Name** field to create an NDFC-type template (for example, stretched Template) and select the dcnm-default-tn tenant in the **Select a Tenant** field to map the template to that tenant.

Figure 6:



Step 6 Under **Template Properties**, click **Create Object** and choose **VRF** to create a VRF that will be stretched to all the sites.

Figure 7:

cisco Nexus Dashboard 🌲 Orchestrator 🗸				Feedback 👤
etched Schema			0 / 1000 Objects	Save Schema () ×
ew Stretched Template \vee		Add New Template	Template Stretched Template	>
Stretched Template Tenant: dcnm-default-tn	Associated Sites In Sync 0 Out of Sync 0	Display to allow	Template Settings Display Name* Stretched Template Deployed Name:	^
mplate Properties 🗸	MPORT	Actions ~	Template Type NDFC	
		Network	Select a Tenant *	
Click "Create Of	Let's create an object oject" on template properties to create an obje	act.	dcnm-default-tn	×v

NoteIf you have an on-premises VRF already created that you want to use instead of creating a new VRF, under
Template Properties, click Import, then import the already-created VRF.

Currently, we only support importing VRFs and networks from on-premises sites.

Step 7 Enter a name in the **Display Name** field for the stretched VRF (for example, stretched-vrf).

Figure 8:

≡ cisco Nexus Dashboard . Crohestrator ∨					Feedback 💄 📀
Stretched Schema				1 / 1000 Obje	oct Save Schema たよ 🗙
View Stretched Template \vee		Add	d New Template	VRF stretched-vrf	×
Stretched Template Tereant: conm-default-in	Associated Sites In Sync 0 Out of Sync 0		phay to sillee	October Content School	0
Template Properties ~		IMPORT - SELECT + Create Obj	Actions ~	stretched- <u>ytf</u> Uepoyes rame: Description	
VRFs ~			Add VRF	NDFC Properties	^
stretched-vrf				VRF Profile *	
				Default_VRF_Universal VRF Extension Profile *	× ~]
				Default_VRF_Extension_Universal	× ~
				12345	
				Redistribute Direct Route Map	
				FABRIC-RMAP-REDIST-SUBNET	
				Disable RT Auto-Generate	

- **Step 8** Associate all the sites (on-premises and cloud sites) to Stretched Template for the stretched VRF use case.
 - a) In the **Template Properties** area, click **Actions** > **Sites Association**. *Figure 9:*

Stretched Schema		1/1000 Object	0 t} X
fiew Stretched Template ∨	New Template	Template Stretched Template	0
Stretched Template Version 1 Tenant: down-default-in	ony to alles	Template Settings Display Name* Stretched Template Deployed Name:	
emplate Properties ~	Actions ~	Description	
Tiller BMPORT -> SELECT + Create Obj	Clone Template	ate Type	
VRFs ~	History	rt Settings	
stretched-vrf	Sites Association	n default-tn	
	Tag	-default-tn	
		Description Default tenant for NDFC	

b) Select all the sites, then click **Ok**.

This also allows you to select each site individually to provision site-level configurations for the objects defined in this template (in this specific case, just the stretched VRF).

Figure 10:

≡ cisco Nexus Dashboard Ord	hestrator v		Feedba	ick 土 😶
Stretched Schema			1 / 1000 Object	< 53 ×
View Stretched Template \sim		Add New Template	Template Stretched Template	×
Stretched Template Version 1	Associated Sites In Sync 0 On of Size 0	(managed)	Template Settings Display Name*	
Template Properties ~	Add Sites To Stretched Template		x varies	
Filter	✓ Name		Туре	
VRFs ~	253(te) Azure 253(te)		ettings since	
	Sydney 12.3.2.275		fault-tn oo	
			inant for NDFC	

Once the sites are associated with the template, they will appear under Template Properties.

Figure 11:

≡ disdo tisco Nexus Dashboard . Corchestrator ∨		Feedback 💄 🧐
Stretched Schema	1 / 1000 Object Save S	Schema ① たよ X
View Stretched Template ~	Template Stretched Template	×
Stretched Template Version 1 Applied to 3 sites Tenant: dcnm-default-in Display to sites	Template Settings Display Name* Stretched Template Deployed Name:	^
Template Properties ^ Actions - Template Properties / Actions - AWS @ oxid Spice BMPORT ~ SELECT + Circular Object -	Template Type NDFC	
Azure © Out of Sync Sydney © Out of Sync Stretched-wrf	Tenant Settings Display name dcmr-default-in Name dcnm-default-in Description Default tenant for NDFC	<u>^</u>

- **Step 9** Click **Template Properties** and select the first cloud site (the AWS site in this example use case), then associate the VRF to the appropriate regions to create the VPC.
 - a) Click the VRF, then click Add Region to create the VPC in the selected region.

Figure 12:

≡ disco Nexus Dashboard / ★ Orchestrator ~	a second s	Feedback 💄 🕐
Stretched Schema	1 / 1000 Object	ave Schema 🛈 🗘 🗙
View Stretched Template \vee	Add New Template Stretched-vrf	×
AWS Version 1 Stretched Template		- warning
Tenant: down-default-in AWS I out dipped >> Filter	Actions	^
VRFs ~	Sike Local Properties Context Profiles Region	^
	Leäk Routes Target VRF Routes	
	SAd Leak Route	

The Add Cloud Region CIDRs window appears.

b) In the **Region** field, choose the region where you want to create the VPC.

Figure 13:

≡ dialit. cisco Nexus Dashboard		Feedback 💄 🤊
Stretched Schema		ct Save Schema 🕢 🖏 🗙
View Stretched Template ~	VRF stretched-vrf	×
Add Cloud Region CIDRs		×
Region * Select region		
us-west-z us-west-1		
Cluk Iype Vie-		
VPN Gateway Router		
FILD METHODIX		

- c) In the CIDR field, click Add CIDRs and define a CIDR block for the VPC.
- d) Click Add Subnet to create the subnets and map them to the availability zones, then click Save.

Figure 14:

etched Schema						1/1000 Object Save Schema 🕥 📢
dd Cloud Region CIDRs						\$
ion *						
s-west-2						$\times \sim$
tainer Overlay						
Rs						
DR				Туре	VRF	
IDR Type () Primary) Secondary dd Subnets Subnet Name Private Link Labels	Availability Zone					
0.230.1.0/24	us-west-2a	~	×			
0.230.2.0/24	us-west-2b	~	×			
Add Subnet						

e) Check the box under the **Hub Network** field, then select the hub network that was created on the Cisco Cloud Network Controller for AWS.

This allows the Cisco Cloud Network Controller to attach the subnets onto the transit gateway, which builds the connectivity from those subnets to the transit gateway, where the transit gateway already has the connectivity to the Cisco Catalyst 8000Vs in the cloud.

f) In the **Subnets** field, map the subnets that will be used for the transit gateway.

It is best practice to have a dedicated subnet that will be used for the transit gateway.

Figure 15:

≡ ^{•1 •1 •} Nexus Dashboard Crchestrator ∨			Feedback 💄 🕐
Stretched Schema			1/1000.Object Save Schema 💿 🗘 🗙
Add Cloud Region CIDRs			×
us-west-2			××
Container Overlay Enabled CIDRs			
CIDR	Туре	VRF	
10.230.0.0/16	Primary	stretched-vrf	/音
🚯 Add CIDRs			
VPN Gateway Router			
A To change the selected Hub Network, uncheck the Hub Network option	and deploy the template first. Then re-enable the option, select t	he new Hub Network, and redeploy the template.	
Hub Network			
hub-1 - infra			Xv
Subnets			
10.230.1.0/24 × 10.230.2.0/24 ×			× 🗸
			ox

Note Alternatively, a dedicated /25 subnet per availability zone can be used for connectivity to a hub network (TGW). This will allow the entire end-point subnets to be used for end hosts.

g) Click Ok.

You are returned to the AWS template window.

When this configuration is deployed, a VPC with CIDR 10.230.0.0/16 will be created in the AWS cloud, stretching between the us-west-2a and us-west-2b availability zones, with the 10.230.1.0/24 and 10.230.2.0/24 subnets created respectively.

Figure 16:

≡ cisco Nexus Dashboard Archestrator ~	Feedback 🛓 💿
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View Stretched Template ~	Add New Template Streiched-vrf ×
AWS Version 1 Stretched Template Amount 1 Amount 2 Amount 2	Depary for titles
AWS • Out of Spec Filter:	Actions Display Vame * Actions Display Vame * Display Vame * Stretched-vrf Display Vame stretched-vrf Discription NIA VIB ID O 150555 Stretched-vrf
Stretched-wrf	Site Local Properties ^
	us-west-2 / 🕿
	Add Region Leak Routes Target VRF Routes
	Add Leak Route

- **Step 10** Click **Template Properties** and select the second cloud site (the Azure site in this example use case), then associate the VRF to the appropriate region to create the VNet.
 - a) Click the VRF, then click Add Region to create the VNet in the selected region.

Figure 17:

≡ difulli cisco Nexus Dashboard . Orchestrator ~	Feedback 🛓	9
Stretched Schema	1/1000 Object Save Schema 🕢 🗘 🗙	
View Stretched Template ~	Add New Template VRF stretched-vrf	
Azure Version 1 Stretched Template		
Tenant: donn-default-in	Template Properties Actions Display kame * stretched-vef Description N/A Vier ID Qo 150555	
VRFs Stretched-wrf	Site Local Properties Context Profiles Region Add Region	
	Leak Routes Target VBF Routes Add Leak Route	

The Add Cloud Region CIDRs window appears.

- b) In the Region field, choose the region where you want to create the VNet.
- c) In the CIDR field, click Add CIDRs and define a CIDR block for the VNet.
- d) Click Add Subnet to create the subnets, then click Save.

Figure 18:

alladia Ξ cisco Nexus Dashboard		Feedback
irretched Schema		1/1000 Object Save Schema 💽 1
Add Cloud Region CIDRs		
Region * eastus		×
Container Overlay Enabled		
CIDRs	Туре	VRF
CIDR * 70,1.0.0/16	7.	
CIDR Type ③ ● Primary		
Secondary Select Associated VRF Parent VRF Hosted VRF		
Add Subnets Subnet Name Private Link Labels Availability Zone		
70.11.0/24 × X		
Add Subnet		
Cancel		

e) Check the box under the **VNet Peering** field, then select the Default hub network that was created on the Cisco Cloud Network Controller for Azure.

Figure 19:

≡ disco Nexus Dashboard . Crchestrator ∨	وتقارب فيتعاقبوا الفا		Feedback 💄 📀
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Add Cloud Region CIDRs			×
Region *			
eastus			$\times \sim$
Container Overlay			
CIDRs			
CIDR	Туре	VRF	
70.1.0.0/16	Primary	stretched-vrf	/=
3 Add CIDRs			
VPN Gateway Router			
Hub Network			
Default			× ~
			OK

f) Click Ok.

When this configuration is deployed, the VNet that you configured (in this example, 70.1.0.0/16) will be created on the appropriate region in Azure (in this example, the eastus Azure region) and VNet peering is configured to the infra VNet in the infra tenant in Azure.

Figure 20:

≡ cisco Nexus Dashboard		Feedback 上 🧿
Stretched Schema	1 / 10	000 Object Save Schema 🕢 🏷 🗙
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Azure Version 1 Stretched Template Stretched Template	Deploy to silvs	warning
Tenant: down-default-in Azure outersympty Filter VRPs ~	Actions Template Properties Display Name Display Name Actions Display Name NA Display Name VRF ID O StoSS5 Site Local Properties	^
stretched-vrf	Context Profiles Region eastus come 72100/16	/ =
	Add Region	
	Leak Routes Target VRF	Routes
	Add Leak Route	

- **Step 11** Click **Template Properties** and select the on-premises site (the Sydney site in this example use case), then select the stretched-vrf VRF.
- **Step 12** In the right pane, click **Add Static Leaf**.

Figure 21:

≡ disco Nexus Dashboard Crehestrator ∨		Feedback 💄 🕐
Stretched Schema	1 / 1000 C	Ibject Save Schema の たよ 🗙
View Stretched Template >	emplate Stretched-vrf	×
Sydney Version 1 Stretched Template Stretched Template Stretched Template	- critical major	warning
Sydney Out of the control of the con	Template Properties Display Name Stretchad-orf Discription N/A ViR-ID_O Sto555 Site Local Properties Temant Routed Multicast RP External Static Leaf Nodes	^
	Node/Switch	

The Add Static Leaf window appears.

 Step 13
 In the Leaf field, select the leaf/border/border gateway device where this VRF is to be deployed and click Ok.

 Figure 22:

View Stretched Template ·	Stretched Schema					00 Object Save S	Schema 🕥
Sydney www.i S	View Stretched Template ~		Add New Template	VRF stretched			
Transfer Transfer Display Name* Sydney Court Sput Add Static Leaf Finer Leaf Stretched-wf VDFs UNA stretched-wf UNA Vist UNA stretched-wf Stock VLA Site Leaf Properties UNA Site Leaf Properties Stretched-wf Site Leaf Properties Stretched-wf Site Leaf Properties Stretched-wf Site Leaf Properties	Sydney Version 1 Stretched Template	Associated Sites		- critical	- major	- minor	- warnin
Sydney Considering Add Static Leaf Static Leaf Static Leaf Static Leaf Static Leaf Description Filter Image: Static Leaf Image: Static Leaf Static Leaf Description VRFs VLN Image: Static Leaf Static Leaf Static Leaf VILN Image: Static Leaf Static Leaf Static Leaf Static Leaf VLN Static Leaf Static Leaf Poperties Static Leaf Notes Static Leaf Notes Static Leaf Notes		U		Template Pr	operties		
Filter Leaf VRF VR	Sydney e ou of sync. V	Add Static Leaf	× (Actions ~)				
VRFs ~ VLN VIAN VIAN VIAN VIAN VIAN VIAN VIAN VIA		Leaf		Description N/A			
VRPs ~ VLAN Stretched-wf Str		ndfc-leaf1 ~ ndfc-leaf2	X ~				
Stretched-wrt Tehani Routed Mutricass RP External Steric Leaf Nodes Steric Leaf Nodes	VRFs ~	VLAN	1	Site Local P	roperties		
PP External Static Leaf Nodes	stretched-vrf						
Static Leaf Nodes			Ok				
Node/Switch				Node/Swit	ich		

You are returned to the Stretched Template page.

Step 14 Click Add Static Leaf again to add additional leaf/border/border gateway devices where this VRF is to be deployed.

In this example, you need to deploy the VRF on the leaf nodes (where the endpoints part of the network mapped to the VRF will be connected) and on the BGW spine node to be able to extend the Layer 3 connectivity for the VRF towards the cloud sites.

Figure 23:

≡ ^{•t]•t+]+} Nexus Dashboard . Orchestrator ∨					Feedback 💄 🔮
Stretched Schema			1 / 1000	Object Save Sch	ema 💿 🔃 🗙
View Stretched Template ~		Add New Template	VRF stretched-vrf		×
Sydney Version 1	Associated Sites		major	- minor	- warning
Tener: down-defaill-th Sydney @ Gard Street V Filter	Add Static Leaf	x Actions -)	Template Properties Display Nome * stretched-vrf Decoyor Name, stretched-vrf Decorption N/A: VRF ID © 150555		
Streiched-wit		•	Site Local Properties Tenant Routed Multicest PP External Static Leaf Nodes Node/Switch		
			ndfc-leaf1 ~ ndfc-leaf2 VLADA N/A		/ =
			Add Static Leaf		

When you have added all of the leaf/border/border gateway devices where this VRF is to be deployed, they will appear in the **Stretched Template** page.

Figure 24:

≡ dituth cisco Nexus Dashboard		Feedback 💄 🧿
Stretched Schema	1 / 1000 02	oject Save Schema の たよ 🗙
View Stretched Template \vee	(Add New Template) VRF stretched-vrf	×
Sydney Version 1 Systematic Stress Systematic and stress	major	warning
Tenant: dcvm-default-in Sydney • Got of Spice Filter VRFs ~ Stretched-vrf	Actions Display Name * Actions Display Name * Actions Display Name * Display Name * Display Name *	^
	Node/Switch	
	ndfc-leaf1 ~ ndfc-leaf2 VLAN: N/A	/ =
	ndfc-spine1 VLAN: N/A	/ =
	Add Static Leaf	

Step 15 Click the arrow next to the Sydney site, and from the drop-down menu, select Template Properties.

Step 16 Click Deploy to sites.

Figure 25:

E disco Nexus Dashboard • Orchestrator ~	Feedback 上 🕄 1/1000 Object 🛛 Save Schema 🕢 🏷 🗙
View Stretched Template ~	Template X
Stretched Template Version 1 • Associated Sites • In Sync. • • Out of Sync. 3 • Out of Sync.	No vertex Display Name* Stetched Template Deployed Name: Description Actions ->
Filter MHORT - SELECT + Create Object	Template Type NDFC
VRFs ~ A stretched-wit	dd VRF Tenant Settings

The **Deploy to Sites** window appears, showing the three sites where the stretched template will be deployed. *Figure 26*:



Step 17 Click **Deployment Plan** for additional verification, then click on each site to see the deployment plan for that specific site.

Figure 27:

≡ cisco Nexus Dashboard Ore	restrator v	Feédback 上 💿
Stretched Schema		1/ 1000 Object.
View Stretched Template ~		(Add New Template Stretched Template X
Deployment Plan		×
General Information Template Stretched Template	Schema Stretched Schema	Tenant dcnm-default-tn
Plan AWS Azure Sydney		Ocreated Obeleted OModified OExisting @Shadow
		(View Payload)
O donm-default-tn O-stretched-vrf	O route-targetas2-nn4:23456:150 O route-targetas2-nn4:23456:301	

Figure 28:

≡ disco Nexus Dashboard Ore	hestrator V	Feedback 上 💿
Stretched Schema		1/ 1000 Object. Te Object
View Stretched Template ~		Add New Template Stretched Template X
Deployment Plan		×
General Information Template Stretched Template	Schema Stretched Schema	C Tenant dcnm-default-in
Plan AWS Azero Sydney O donm-default-tn O stretchäd-vrf	O route-targetas2-nn4:23456:150	O Created O Deleted O Modified O Existing @ Shadow

Figure 29:

≡ cisco Nexus Dashboard Ore	hestrator ~	Feedback 👗 🕄
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Deployment Plan		×
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Plan		
AWS Azure Sydney		Created Obeleted OModified OExisting @Shadow
		(View Payload)
	oroute-target:as2-nn4:23456:301	
O dcnm-default-tn Stretched-vrf	© route-target:as2-nn4:23456:150	
	• ndfc-leaf1 ~ ndfc-leaf2	
	natc-spine i	

 Step 18
 Click Deploy to have NDO push the configurations to the site specific controllers (NDFC and Cloud Network Controller).

 Figure 30:

Feedback 💄 🔮					estrator 🗸	exus Dashboard 📃 👲 Orch	≡ cisco Ne)
× 63 ©						ema	tretched Sche
×	Template Stretched Template	Add New Template				hed Template 🗸	/iew Stretch
~	Template Settings Display Name*	Deploy to sites	ed Sites In Sync 0 Out of Sync 3	O Associat		ed Template Version 2	Stretche Applied to 3
×						sites	Deploy to s
lory Deployment Plan	View Version Histor						Modifications
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			Sydney 12.1.2.275	Azure 25.1(1e)	O AWS 25.1(1e)	Name	Object Type
			+ Created	+ Created	+ Created	stretched-vrf	VRF
			+ Created	+ Created	+ Created	stretched-vrf	VRF

- **Step 19** Verify that the configurations were deployed successfully.
 - To view the VRF deployment on NDFC, go to the **Topology** view, select the on-premises fabric **Sydney** > **VRFs**, then select stretched-vrf.

Figure 31:

Â	Nexus Dashbo	bard	
Ŧ	Fabric Controller		
Â	Dashboard	💿 Data Center / 🔿 default / 🔵 Sydr	ey / 💿 VRFs (1) / 💿 stretched_vrf
×	Topology	View ^	Search by Attributes
=	LAN ~	+ - 20	
\$	Settings ~	Operation Configuration	
T,	Operations V	Hierarchical 🗸	
		 In-Sync Pending In Progress Out-of-Sync NA Multi-select () O selected 	ndfc-spine1

• Connect to the Cloud Network Controller deployed on AWS to verify that the configurations for the first cloud site (AWS) were deployed successfully.

Go to Application Management > VRFs, locate stretched-vrf and click under the column VPCs, then go to the Overview page and click under Subnets.

• Connect to the Cloud Network Controller deployed on Azure to verify that the configurations for the second cloud site (Azure) were deployed successfully.

Go to Application Management > VRFs, locate stretched-vrf and click under the column Virtual Networks, then go to the Overview page and click under Subnets.

Step 20 Create another template under Demo Schema for deploying networks on the on-premises site.

- a) Under the Demo Schema template, click Add New Template.
- b) Choose the NDFC template.
- c) Enter a name in the **Display Name** field to create an NDFC-type template (for example, On-Prem Template) and select the dcnm-default-tn tenant in the **Select a Tenant** field to map the template to that tenant.

Figure 32:

Figure 33:

≡ cisco Nexus Dashboard ★ or	chestrator ~	Feedback 🛓 🤉
Stretched Schema		1 / 1000 Object Save Schema ④ 代え 🗙
View On-Prem Template \vee	Add New Template	Template ×
On-Prem Template Tenant: dcnm-default-tn	Associated Sites In Sync 0 • Out of Sync 0 Deputy to ease.	Template Settings ^
Template Properties ~	Actions ~	Description
	BMPORT - SELECT + Create Object -	Template Type NDFC
		Tenant Settings
		Select a Tenant *
i	Let's create an object Click "Create Object" on template properties to create an object	
-		

- **Step 21** Create the net20 network under the VRF on On-Prem Template.
 - **Note** If you have a network already created that you want to use instead of creating a new network, under **Template Properties**, click **Import**, then import the already-created network.
 - a) Under **Template Properties**, click **Create Object** and choose **Network** to create a network.

≡ diudhi disco Nexus Dashboard .	Feedback 🛓 💿
Stretched Schema	1/1000 Object Save Schema の 代え 🗙
View On-Prem Template ~	On-Prem Template ×
On-Prem Template On-Prem Template On-Prem Template One of the second	Template Settings
BMPORT ~ SELECT + Create Object - VRF Network	Template Type NDFC Tennat Settings Salert a Tongar *
Let's create an object Click "Create Object" on template properties to create an object	dom-default-in

- b) Enter a name in the Display Name field for the network (for example, net20).
- c) In the Virtual Routing & Forwarding field, choose the stretched-vrf VRF to map net20 to that VRF.

Figure 34:

≡ distance Nexus Dashboard Orchestrator ->			Feedback 土 3
Stretched Schema			2/1000 Objects Save Schemb 🕥 tl 🗙
View On-Prem Template ~		Add New Template	Network net20
On-Prem Template Terrant: donn-default-tri	Associated Sites In Sync 0 Out of Sync 0	(Departy (1) office)	General Context Contact General Context Contact General Context Contact General Context Conte
Template Properties V		(Actions	Description
Networks		Add Network	NDFC Properties
			Layer2 Only
			stretched-vrf X V
			Default_Network_Universal X V
			Default_Network_Extension_Universal X V
			VLAN Name
			Gateway IP Add Subnet Suppress ARP

d) In the Gateway IP field, click Add Subnet.

The Add Subnet window appears.

e) Click **Add Gateway IP** and provide the gateway IP address, then click the checkmark to accept the value and click **Add**.

Figure 35:

Image: Nexus Dashboard Image: Descentary Stretched Schema 2/1000 Clears View On-Prem Template > Image: Descentary Image: Descentary Image: Descentary				
Stretched Schema			2 / 1000 Objects	⊙ () ×
View On-Prem Template ~		(Add New Template)	Network net20	Θ×
On-Prem Template	Associated Sites' *0 Syc: 0 *0 Syc: 0 *0 Syc: 0		Company Anne*	
Template Properties ~				
	Add Subnet ×	+ Create Object -		
Networks	Gateway IP Type 1723162031/24 primary V T	Add Network	NDFC Properties	
			Layer2 Only	
	Add			
			Default_Network_Extension_Universal	
			* Gateway IP	
			Add Subnet Suppress ARP	

The gateway IP address is now displayed in the Gateway IP field.

Figure 36:

≡ ^{elude} Nexus Dashboard Archestrator ∨	Feedback
Stretched Schema	2/1000 Objects Save Schema 🛈 🕻 🗙
View On-Prem Template ~	Add New Template net20
On-Prem Template On-Prem Template On-Prem Template On-Prem Template On-Out of Spice 0 On of Spice 0 On of Spice 0	Common Properties Chipty Name*
Template Properties ~	Actors - Description
Networks ~ net20	Add Network NOFC Properties
	Virtual Routing & Forwarding ℝ * stretched -vrf × ∨
	Network Profile * Default, Network Universal ×
	Network Extension Profile * Default, Network, Extension, Universal ×
	VLANID
	VLAN Name
	* Gateway IP 172.16.20.1/24

f) Define other optional parameters for this network, if necessary.

Step 22 In the Template Properties area, click Actions > Sites Association. Figure 37:

E cisco Nexus Dashboard A Orchestrator		Feedback
tretched Schema		2/1000 Objects Save Schema 🕢 🏌
fiew On-Prem Template >	Add New Template Network	0
Associated Sites	USED IN CURRENT SO	USED SY OTHER SCHEMAS
On-Prem Template Tenant: donm-default-tn O	Thighey to state Common Properties	
<u> </u>	Display Name* net20	
emplate Properties ~	Actions Deployed Name: Description	
Filter	IMPORT - SELECT + Create Objec Delete Template	
	Add Clone Template A perties	
Networks V	Network ID ()	
net20	Laver2 Only	
	stretched-vrf	waroing 🗮 - 🛛 🛛
	Network Profile *	
	Default_Network_U	Jniversal ×
	Network Extension F	Profile *
	Default_Network_E	ixtension_Universal ×
	VLAN ID	
	VLAN Name	
	* Gateway IP	
	172.16.20.1/24 Type: primary	,

Step 23 Associate this template only to the on-premises site (the Sydney site in this example use case), then click **Ok**.

Figure 38:

≡ cisco Nexus Dashboard Orchestrator ~				Feedback 1
Stretched Schema			2/1000 Objects Save	Schema @ ti X
View On-Prem Template ~		Add New Template	Network net20	© ×
On-Prem Template	Associated Sites • baye • baye • baye		Common Properties Display Name*	
Template Properties ~	Add Sites To On-Prem Template	×	Deployed Name: Description	
	Name			
Networks	C 25.3(1e)		NDFC Properties	
	Azure 25.116 Sydney Sydney		Layer2 Only	
			stretched wrf	
		•		
			Default_Network_Extension_Universal	

You are returned to the On-Prem Template window.

Step 24From the Template Properties drop-down, select the on-premises site (the sydney site in this example use case), click
the net20 network, then click Add Static Port to add the ports where you want to deploy this network.
The Add Static Port window appears.

Figure 39:

E cisco Nexus Dashboard				Feedback 👤
Stretched Schema		2 / 100	0 Objects Save	Schema 🕄 代え 🗙
View On-Prem Template ~	Add New Template	Network net20		>
Sydney Associated Sites Sign for 1	Tupky to white	ritical major	- minor	- warning
Tenant: dcnm-default-tn	c	ommon Properties		~
Sydney O dat of Sync I V	Actions ~ D	isplay Name * et20 eployed Name:		
Filter	D	escription I/A		
-	N	letwork ID 🕢 //A		
S Networks 😪	s	ite Local Properties		
net20	T	enant Routed Multicast		
	E	nable L3 Gateway Border		
	P	HCP Loopback ID		
		HCP Servers		
	-	Server Address		
	s	tatic Ports		
	P	ath Losf VLAN	Dorte	
	12	Add Static Port	Porta	

- Step 25 In the Add Static Port window, click Add Path.
- The Add Static Port window appears.
- **Step 26** In the **Leaf** field, select the device where you want to deploy this network.
- **Step 27** (Optional) Enter the necessary information in the VLAN field.

Step 28 In the **Ports** field, select the ports where you want to deploy this network.

Step 29

Step 30

Figure 40:

Click Save.

≡ diuli. cisco Nexus Dashboard . Ore	hestrator ->				Feedback	. 0
Stretched Schema			2 / 1000 Obj	octs Save Sch	ema 🛈 t2	×
View On-Prem Template ~	Add Hew Template	Ne	atwork			×
Sydney	Add Static Port	×	majar	- minor	- warning	
On-Prom Template Tenant: dcnm-default-tri	Path Leaf VLAP	Ports	Properties			
Sydney a dutid sync V	Leaf ndtc-leaf1 ~ ndtc-leaf2		iame *			
	VLAN 2320					
Networks	Ports		I Properties			
Net20	Cancel Save		outed Multicest - 3 Geteway Border			
			opback ID			
		Suomin	rvers ver Address			
		State Path	dd DHCP Server	Ports		
		0	dd Static Port			-

You are returned to the Add Static Port window.

In the Add Static Port window, click Submit.

Figure 41:

= "linit" Nexus Dashboard . Orchestrator					Feed
Stretched Schema					2/1000 Objects
View On-Prem Template ~				Add New Template	Network met20
Sydney Version 3	Associated Sites * in Sync 0				major critical minor sea
Con-Memplate Tenant: donm-default-tn	U Dut of Syne 1				Common Properties Display Name *
Sydney Cod at Symp	Add Static Port			×	
	Path Leaf	VLAN	Ports		Network ID () 134736
Networks	ndfc-leaf1 ~ ndfc-leaf2	2320	vPC49 vPC51 vPC52 Hide All~	/1	Site Local Properties Tenant Routed Mutticest
	Add Path				
				Submit	DHCP Servers Server Address
					Add DHCP Server Static Ports Path
					Leaf VLAN Ports

You are returned to the **On-Prem Template** window.

- Step 31 Click the arrow next to the on-premises site (the sydney site in this example use case), and from the drop-down menu, select Template Properties.
- Step 32 Click Deploy to Sites.

Figure 42:



The Deploy to Sites window appears, showing the site where the template will be deployed.

Figure 43:

≡ cisco Nexus Dashboard A Orchestrator ∨	Feedback 👤 📀
Stretched Schema	2 / 1000 Objects. 🔤 むしょう の たえ 🗙
View On-Prem Template ~) Template ×
Associated Sites	Template Settings
Deploy to sites Modifications	X View Version History Deployment Plan
C + Created Z Modified Z m Deleted Z R Config Drift Z Migrated	
Object Type Name Sydney 12.12.275	
Network Net20 + Created	
	Deploy

Step 33 Click **Deployment Plan** for additional verification, then click on the on-premises site to see the deployment plan for that specific site.

I

Figure 44:

≡ disco Nexus Dashboard Orchestrator ∨			Feedback 🛓 🕤
Stretched Schema			2/3000 Objects の () X
View On-Prem Template ~		(Add New Template)	Template ×
Deployment Plan			×
General Information © Template On-Prem Template	Schema Stretched Schema	C Tenant donm-default-tn	
Plan Sydney		⊖ Creat	ted ODeleted OModified OExisting @Shadow
			(View Payload)
O donm-default-tn ener20 O stretcher	• vPC49 1-ndc-leaf2-@ vPC51 9-wrf • vPC52		

Step 34 Click **Deploy** to have NDO push the configurations to NDFC.

Figure 45:

E = dirujin Nexus Dashboard	Feedback 🛓
Stretched Schema	2/1000 Objects Struct Schemes 🗿 🧎 🗙
View On-Prem Template ~	Add New Template On-Prem Template ×
On-Prem Template Version 6 Applied to 1 sites Tenant: dorm-default to	Ant Deployed: Jan 24, 2023 09 22 pm Cheptoy to soles Cheptoy to
Template Properties ~	Actions -
Filter IMPORT - SOLIC	CT + Create Object · Template Type NDFC
Networks v net20	Add Network Tenant Settings
	Description Default tenant for NDPC

Step 35 Verify that the configurations were deployed successfully.

Note that for each of these verification steps, the exact command that would be used specifically for the configurations in this use case are shown. Replace the appropriate variables in each command based on your configuration.

- a) In NDO, verify that the configurations were deployed successfully.
 - Verify that the Stretched Template was deployed successfully.

Figure 46:

rephoned	Schemas			Templates	
ies	Schemas			Q. Search	Template Stretched Template
oplication Management	Filter by attributes			Stretched Template	General
bric Management	Name	Templates	Tenants	Stretched Schema On-Prem Template	Change Control Status
perations Irastructure	Stretched Schema	2 ②2	1	Stretched Schema	Tenant Name dcnm-default-tn
egration					Sites By Type
					APIC AWS Azure NDFC NDFC
					Application Management
	10 ~ Rows				O O ANPS BRIDE DOMAIN
					O O CONTRACT EXTERNAL EPO
					O O PLTER L30UT
					O D
					1 0

• Verify that the On-Prem Template was deployed successfully.

Figure 47:

≡ cisco Nexus Dashb	oard to Orchestrator			Templates	Feedback	T 6
Dashboard Sites	Schemas			Q. Search	Template On-Prem Template	ſ
Application Management	Filter by attributes			Stretched Template	General	^
Fabric Management	Name	Templates	Tenants	On-Prem Template	Change Control Status O Deployment Successful	
 Infrastructure 	Stretched Schema	2 02	1	Stretched Schema	Tenant Name dcnm-default-tn	
<i>G</i> Integration					Sites by type 1 Tatil * Anno * Ann	1 0 0 0
					Application Management	^
	10 v Rows				ANIPS BRIDGE DOMAIN	
					O O EXTERNAL EPO	
					O O Laout	

• Verify that the dcn-default-tn tenant was deployed successfully.

Figure 48:

Destruct	Schemas		Tenan	S	2	Y
p Sites	Schemas		Q. Sea	rch	Tenants dcnm-default-tn	C
Application Management	Filter by attributes		dcnm-d	efault-tn	General	^
Fabric Management	Name	Templates	Tenants	Schema.	Name dcnm-default-tn	
Diperations	Stretched Schema	2 02	1		Description Default tenant for NDFC	
9 Integration					Associated Sites	3
					Associated Users	of 4
					Users (1) Assemed Schemas	of 1
					Schemas (2)	2 of 1
	10 V Rows				Topology	^
	A second s				6	
					9	
					s <u>S</u>	

- b) In NDFC, verify that the following were done successfully:
 - Verify that one vrf and one network has been created.

Figure 49:

E cisco Nexus Dashboard	🔅 One View 🗸		Feedback 💄
Fabric Controller			• •
Clifco Nexus Dashboard Fabric Controller Autor Controller	Data Center / default / Sydny Search by Attributes Show Logical Links Operation Configuration Herarchical In-Sync Pending In Progress Out-of-Sync NA Multi-select O selected	Networks (1) VRF's (1) Meta-fabind2-AWS Meta-fabind2-Azure VM (3)	Actions ~

• Verify that the VRF was deployed successfully.

Figure 50:



• Verify that the network was deployed successfully.

Figure 51:



c) Enter sh ip route vrf stretched-vrf on the on-premises Border Gateway Spine device:

a	ndfc-leaf1 - SecureCRT	- 1	×	
Fil	e Edit View Options Transfer Script Tools Window Help			
-6	チロシ ② □ □ 両 ● ☆ 目 〒 ? 図			
0	● ndfc-ext-c8k ● Cat8K-AWS ✔ Cat8K-AZURE ✔ ndfc-leaft x ● ndfc-spine ● Cat8K-AWS 1) ● Cat8K-AWS-2		4 0	,
Session Manager Command Manager	<pre>Outcode Catabasys V databasys V datab</pre>			
	ndfc-leaf1#		~	,
	Default 🗸			1

For this use case, using the routing table, you can verify that the NDFC leaf switch can reach out to the following subnets:

- AWS: 10.230.0.0/16
- Azure: 70.1.0.0/16
- d) Connect to the Cloud Network Controller deployed on AWS and make the following verifications:
 - Verify that the donm-default-tn tenant is created and one VPC is deployed:

← → C ▲ Not secure https://4 Ø DMZ2-VCenter ● fab2vnd226 ● ND	44.238.203.132/#/application	n-management/tenants cAPIC-AWS 🐵 cAPIC-Azure 🏮 AWS In	ifra 🛕 Azure 📀 Images						ピ 1	🕯 🔲 😩 Update 👔
Ŧ	Cloud Network Controller (AWS) 🔤							000 💶		
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Topology	Toriarito									•
Cloud Resources	Filter by attributes									Actions ~
Application Management					Applica	ation Management			Cloud Resou	rces
Tenants	Health	Name	Description	Application Profiles	EPGs	VRFs	AWS Account	Regions	VPCs	Endpoints
Application Profiles	Healthy	common		1	0	2		0	0	0
EPGs		denne default te	Default	0	0	1	117070746	2	1	
Contracts	Healthy	NDO	tenant for	0	0	1	411	2		
Filters	-	inter	NDFC		15	2	257501685	2	1	12
VRFs	D O Major	mira		1	15	2	230	2	1	12
Services	D 🗢 Healthy	mgmt		0	0	2		0	0	0
Cloud Context Profiles	15							0		
External Networks	15 V Rows							Page	✓ of I I	14 1-4014 PP
Operations										
🔿 Infrastructure 🗸 🗸										
📭 Administrative 🗸 🗸										

• Verify that the VPC is deployed:

← → C ▲ Not secure https://4	4.238.203.132/#/application-ma 0-231 🔵 NDFC-224 🐵 cAPIC	nagement/tenants -AWS @ cAPIC-Azure 😑 AWS	Infra 👗 Azure 🎯 Images		Ŀ	🖈 🔲 🛓 Update 🚦		
Ŧ	cisco Cloud N	etwork Controller (AWS) aws		Q 🛛	000 💶		
Dashboard	Tenants		dcnm-default-tn : VPCs			×		
Topology	Toriarito			VPC				
Cloud Resources	Filter by attributes		Q. Search	stretched-vrf		Ľ		
Application Management			stretched-vrf 10.230.0.0/16		Healthy			
Tenants	Health	Name	dcnm-default-tn > us-west-2	General		^		
Application Profiles	Thealthy	common		Account				
EPGs	-	dcnm-default-tn		dcnm-default-tn				
Contracts	- O Healthy	NDO		Region us-west-2				
Filters	- Maior	infra						
VRFs	C Major			Cloud Resources		^		
Services	Healthy	mgmt						
Cloud Context Profiles	15 V Rows			1	4	0		
External Networks				Regiona	Cloud Availability Zones	Routers		
Operations				1	0	1		
⊖ Infrastructure ∨				Security Groups	Instances	Endpoints		
<u>r</u> ° Administrative \lor				Application Management	t	^		
				0	0	1		
				Application Profiles	EPGa	Cloud Context Profiles		
				1	0			
				VRfa	Service Graphs			
				Cattinge				

- Using the routing table view from the Cloud Network Controller deployed on AWS, verify that the reachable subnets are:
 - NDFC: 172.16.20.0/24
 - Azure: 70.1.0.0/16

VPC stretched-vrf			Actions	💌 🖪 🕶 Ó – X
Overview Topology Cloud Resources Application	Management Event Analytics	Subnets for CIDR Block 10.230.0.0/16		×
General Account dcnm-default-tn Region us-west-2	Settings Cloud Access Privilege Inherited (Routing & Security) Cloud Provider ID vpc-057/c951679a0971d	10 230 1 0/24 10 230 2 0/24	Settings Cloud Access Privilege Inherited (Routing & Security) Cloud CIDR's Subnet 10.230.1.0/24 Name	
Cloud Resources 1 4 0 Tensors Coord Anadality James Decord 1 0 2 Tensors Decord Decord Market States Decord Decord Application Management Coord Conset Pundles 1 Application Finders D Coord Conset Pundles 1 O Decord Conset Pundles	CIRR Block Range	r Y	Route Table Settings Name Statchded-vrf egress Oper State configured Cloud Provider ID mb-04d472959542ce393 Direction egress Entries Destination Address * 172:16:20:1/24 70:1.0.0/16	Next Hop Hub Network tgw-034a97dd5ed64b677 Hub Network Local
VPC stretched-vrf		Subnets for CIDR Block 10 230 0 0/16	Actions	N ■ 0 - ×
Overview Topology Cloud Resources Application General Account dcnm-ofedal-tn Region us-west-2	Management Event Analytics Settings Cloud Access Privilege Inherited (Routing & Security) Cloud Provider ID vpc-057/c951679a0971d CIDRs	10.230.1.0/24 10.230.2.0/24	Settings Cloud Access Privilege Inherited (Routing & Security) Cloud CIDR's Subnet 10.230.2.0/24 Name -	
Cloud Resources 1 4 Mayors Cloud Assistivity Zones 1 0 2 Extransit 1 0 2 Extransit Application Management 0 0 1 0 2 Cloud Conser Frantise 1 0 307 Deves Conpte	CIDR Block Range	y Y	Route Table Settings Name stretched-wit egress Oper State configured Cloud Provider ID ntb-04d472959643ce393 Direction egress Entries Destination Address * 70.1.0.0/16 172.16.20.1/24	Next Hop Igw-034a97dd5ed64b877 Hub Network Hub Network

e) In the AWS console, verify the following:

• Verify that you see one VPC and two subnets.

I

VC databard X UC databard X Vor databard <td< th=""><th>aws</th><th>Services</th><th>Q Sea</th><th>ch</th><th></th><th></th><th></th><th>[Alt+</th><th>S]</th><th></th><th></th><th></th><th></th><th></th><th></th></td<>	aws	Services	Q Sea	ch				[Alt+	S]						
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gateways Carrier gateways			
DHCP option sets Elastic IPs			
Managed prefix lists Endpoints			
Endpoint services NAT gateways			
Peering connections Security Network ACLs			

• Verify that you see the routing table.

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VPC dashboard X EC2 Global View 2 New Filter by VPC: Select a VPC V	VPC > Route tables > rtb-04d472959543ce393 / rtb-04d472959543ce393 /	routetable-[stretched-	vrf:egress]		Actions V
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Your VPCs Subnets	Details Info				
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- f) Connect to the Cloud Network Controller deployed on Azure and make the following verifications
 - \bullet Verify that the <code>dcnm-default-tn</code> tenant is created:

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Topology										
▲ Cloud Resources ∨	Filter by attributes									(Actions ~)
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• Verify that the VRF is deployed:

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VRFs			common									
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		Healthy	stretched-vrf internal koo dcnm-default-tn	0	1	1	1	0	0			
	15	Rows						Page 1 V	of 1 4 4 1-7 of 7 ▶ ▶			

- Using the routing table view from the Cloud Network Controller deployed on AWS, verify that the reachable subnets are:
 - NDFC: 172.16.20.0/24
 - AWS: 10.230.0.0/16

verview Topology Cloud Resources Application Management Event Analytics			nement Event Analytics	Subnets for CIDR Block 70.1.0.0/16					
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plication Manageme	ent				tn_stretched- vrf_eastus/providers/Microsoft.Netw	ork/routeTables/rt-stretched-			
0 Application Profiles	O EPGs O	1 Cloud Context Profiles			vrf_egress Direction egress Entries				
VIIF1	Service Graphs				Destination Address *	Next Hop			
					10.230.0.0/16	10.90.1.36 Hub Network			
					172.16.20.1/24	Hub Network			
					172.16.20.0/24 Copied	10.90.1.36			

g) In the Azure console, verify that you can see the subnets:

	₽ Search re	sources, services, and docs (5+/)			2	G 🖉 💿 💿	유 ambsingh@cisco. csco-avsau	
Home > Virtual networks > stretched-vrf									
Virtual networks « Cisco-INSBU-MKT	stretched-vrf Subr Virtual network	nets ☆ …							×
+ Create 🝥 Manage view 🗸 …		+ Subnet + Gater	vay subnet Refre	h 이 우, Manage users	Delete				
Filter for any field	Overview Activity log	Search subnets							
Name T.	Access control (IAM)	Name †	IPv4 ↑↓	IPv6 ↑↓	Available IPs 14	Delegated to 14	Security group ↑↓	Route table \uparrow_\downarrow	
 ↔ stretched-vrf 	Tags	subnet-70.1.1.0_24	70.1.1.0/24	č.	251		subnet-70.1.1.0_24	rt-stretched-vrf_egress	
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