

Deploying the Tenant

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Deploying the Tenant

Once the underlay and overlay connectivity is established between the sites, you must then deploy the endpoint network/VPC/VNet to establish communication between tenant endpoints deployed in the on-premises and in the cloud sites.

NDO uses the notions of schemas and templates for defining VRFs and networks. In the context of NDFC, VRFs are used to isolate one tenant from another. All the endpoint networks (subnets) of one tenant are mapped to the respective VRF. The same notion of VRFs can also be extended to the cloud, where a VRF corresponds to a VPC in AWS and a VNet in Azure.

The following procedures for deploying the tenant applies to all the topologies previously described and leverage the specific infra config deployed, and also applies for any of the following use cases.



Note NDO has a pre-built dcnm-default-tn tenant, which can be associated with on-premises sites as well as cloud sites. We recommend that you associate this pre-built dcnm-default-tn tenant with the NDFC and cloud sites when deploying hybrid cloud connectivity, but you can also create your own tenant from scratch, if necessary.

Step 1 In NDO, navigate to **Application Management** > **Tenants**.

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Figure 1:

≡ disco Nexus Dast	board 🔶 Orchestrator 🗸	Feedback
Dashboard Sites Application Management	Site Connectivity	() Contens
Fabric Management Operations Infrastructure Integration	Internats Behmas Terrant Policies Cloud Policies	

The Tenants window appears.

Figure 2:

≡ cisco Nexus Dashb	ooard 🔔 Orchestrator 🗸					Feedback 💄
Dashboard Sites	Tenants					① १३ Add Tenant
Application Management	Filter by attributes					
Fabric Management	Name	Description	Assigned To Sites	Assigned To Users	Assigned to Templates	
 Operations Infrastructure 	common	Common tenant for use with all other tenants	4	1	0	
Ø Integration	infra	Infra tenant for use with all other tenants	2	3	0	
	dcnm-default-tn	Default tenant for NDFC	1	1	0	
	10 V Rows				Page 1 of	1 \ll $\!\!\!\!<$ 1-3 of 3 $\!\!\!>$ $\!\!\!\!\gg$

Step 2 Click the dcnm-default-tn tenant.

The Update Tenant page for the dcnm-default-tn tenant appears.

Figure 3:

≡ cisco Nexus Dasht	Doard 🔶 Orchestrator 🗸			Feedback 💄 📀
Update Tenant dcnn	n-default-tn			⊕tł ×
	General Settings			
	Display Name *			
	dcnm-default-tn			
	Internal Name: dcnm-default-tn			
	Default tenant for NDFC			
	Associated Sites			
	Site Name	Site Type		
	Sydney 12.1.2.275	NDFC		
	Azure 25.3(1e)	Azure		
	AWS 25.1(1e)	AWS		
	5 V Rows		Page 1 of 1 $\ll <1-3$ of 3 $> \gg$	
	Associated Users 🔹			
	No user is available			
Cancel				Save

Step 3 Select the sites shown in the screen.

Note that the external fabric site does not appear in the list. The external site is only used to provide connectivity between the on-premises site to the cloud sites and there are no end hosts in the external fabric, so no tenant deployment required for the external fabric.

Figure 4:

≡ dindin ⊂isco Nexus Dasi	nboard 🛛 🙏 Orchestrator 🗸		
Update Tenant dcn	m-default-tn		
	General Settings		
	dcnm-default-tn		
	Internal Name: dcnm-default-tn Description		
	Default tenant for NDFC		
	Associated Sites There are cloud site settings that need to be configured.		
	2 Sites selected		Unselect Items
	Site Name	Site Type	
	Sydney 12.1.2.275	NDFC	/
	Azure 25.1(1e)	Azure	1
	AWS 25.1(1e)	aws	
	5 v Rows		Page 1 of 1 $\ll \leq 1-3$ of 3 $> \gg$

Step 4 For the cloud sites, click the Edit button (the pencil icon) and provide the necessary information for each cloud account.

You need an additional account for AWS for the user tenant, but for Azure, you can use the same subscription as the Azure infra tenant.

• For example, after clicking the Edit button for the AWS cloud site, in the AWS Account Setting area, you might click **Trusted** for the Access Type and enter the associated AWS account ID in that field.

Figure 5:

cisco Nexus Dasi	hboard 🔶 Orchestrator 🗸	والاعتباد والتجاري والمتعادي	
odate Tenant dcn	m-default-tn		
	General Settings		
	Display Name *		
	donm-defaoit-tr	Tenant Setting for AWS site ×	
	Internal Name: donm-default-tn	General Setting	
	Default tenant for NDFC	Security Domains	
		Select Security Domain(s)	
	Accordiated Sites	AWS Account Settings	
	Associated Sites	AWS Account Id *	
	There are cloud site settings that need to be	etrement	
		Untrusted Trusted Organization	
	3 Sites selected		Unselect Items
	Site Name	Cancel Save	
	Sydney 12.12.275	NDFC	1
	Azure 25:1(1e)	Azure	/
	🖾 🌘 AWS 253(1e)	AWS	/
	5 ~ Rows		Page 1 of 1 《 < 1-3 of 3 > 》

See the section "Setting Up the AWS Account for the User Tenant" in the *Cisco Cloud Network Controller for AWS Installation Guide*, Release 25.1(1) or later, for more information on the different access types for the tenants in AWS.

• Similarly, after clicking the Edit button for the Azure cloud site, you would enter the necessary information, depending on whether the tenant is managed or unmanaged.

Figure 6:

date Tenant	dcnm-default-tn		
	General Settings		
	Direlau Namo *		
		Tenant Setting for Azure site	
	Internal Name: dcnm-default-tn	renant Setting for Azure site	
	Description Default tenant for NDFC	General Settings	
		Security Domains Select Security Domain(s)	
	Associated Sites	azureAccount Settings	
		Mode	
		Create Own Select Shared	
		X V	
	Site Name		
	Sydney 12.1.2.375	Cancel Save	/
	Azure 25.1(1e)	O Azure	/
	AWS 251(de)	🥥 AWS	

See the section "Adding a Role Assignment" in the *Cisco Cloud Network Controller for Azure Installation Guide*, Release 25.1(1) or later, for more information on the different access types for the tenants in Azure.

Step 5 Verify the tenants were deployed correctly.

For example, in the figure below, the dcnm-default-tn tenant has three sites mapped (one on-premises NDFC site and the two cloud sites).

Figure 7:

≡ ^{•(• •} Nexus Dashboar	d 🔶 Orchestrator 🗸					Feedback 💄 📀
Dashboard	Tenant dcnm-default-tr	has been successfully updated.				×
Application Management	Tenants					
Fabric Management						① 代え Add Tenant
Departions	Filter by attributes					
⊖ Infrastructure	Name	Description	Assigned To Sites	Assigned To Users	Assigned to Templates	
Ø Integration	common	Common tenant for use with all other tenants	4	1	0	
	infra	Infra tenant for use with all other tenants	2	1	0	
	dcnm-default-tn	Default tenant for NDFC	3	1	0	
	10 v Rows				Page 1 of 1	1 ≪<1+3 of 3>≫

≡ cisco Nexus Dashb	ooard 🌲 Orchestrator 🗸							dback 上 📀
- Duthurd	Tenants			Sites				×
 Sites 	Terraines			Q Search	Site	s ney		
Application Management	Filter by attributes			Sydney		< 390.		_
Fabric Management	Name	Description	Assigned To Sites	dcom-default-tn	O critical	0 major	0 minor	0 warning
Operations Infrastructure	common	Common tenant for use with all other tenants	4	dcnm-default-tn	General			^
@ Integration	infra	Infra tenant for use with all other tenants	2	dcnm-default-tn	Sydney			
	dcnm-default-tn	Default tenant for NDFC	3		Type on-prem	se		
					Cloudser Not Enat Site ID	Encryption		
					Site Con URL	troller URLs		
	10 N Rowe				https://	172.16.0.191:44	3	
	Nows				Topolog	/		~
					e		Symm	

You can also check the dcnm-default-tn tenant deployed in the Cisco Cloud Network Controllers for the cloud sites. *Figure 8:*

Ŧ	alı Cis	Cloud Network Controller (AWS) 🥶									000 💶
Dashboard	Ter	Topants								0	
Topology	101	iunto									•
Cloud Resources											(Actions ~)
Application Management						Applicatio	n Management			Cloud Resources	
Tenants		Health	Name	Description	Application Profiles	EPGs	VRFs	AWS Account	Regions	VPCs	Endpoints
Application Profiles		Healthy	common		1	0	2		0	0	0
EPGs	G		alaram aladarah ka	Default transit				11707074641		0	
Contracts		Healthy	NDO	for NDFC	0	0	0	1	4	0	0
Filters				sites		1944	100				
VRFs		Major	infra		1	15	2	25759168523 0	4	1	12
Services		♥ Healthy	mgmt		0	0	2		0	0	0
Cloud Context Profiles	1										
External Networks	16	V Rows							Page	1 ∨ of 1 4	4 1-4 of 4 ▶ ▶

Ŧ	al) Cl	Cloud Network Controller (AZURE) Arare								000 💶		
Dashboard	Ter	Cononte									0	
Topology	TCI	lanto									•	
Cloud Resources	Filter										Actions ~	
Application Management ^					Application Management				Cloud Resources			
Tenants		Health	Name	Description	Application Profiles	EPGs	VRFs	Azure Subscription	Regions	Virtual Networks	Endpoints	
Application Profiles		• Healthy	common		1	0	2		0	0	0	
EPGs	G		damme dafault to	Default	0	0	0	Charad from	0	0		
Contracts		 Healthy 	NDO	tenant for	0	0	0	infra	0	U	U	
Filters				NDFC sites								
VRFs		Major	infra		1	12	2	74094178- 785d-	1	1	7	
Services								468a-bf23- 41e85a1a3a				
Cloud Context Profiles								da				
External Networks		Healthy	mgmt		0	0	2		0	0	0	
Operations	15	5 🗸 Rows							Page 1	✓ of 1 4 4	1-4 of 4	
🔿 Infrastructure 🗸 🗸												

What to do next

Configure one or both of the following use cases:

- Stretched VRF Use Case
- Route Leaking Use Case

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