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Advanced Configurations (at-scale) for Intersight Managed Mode (IMM)

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BRKCOM-2005

Cisco Webex App

Questions?

Use Cisco Webex App to chat with the speaker after the session

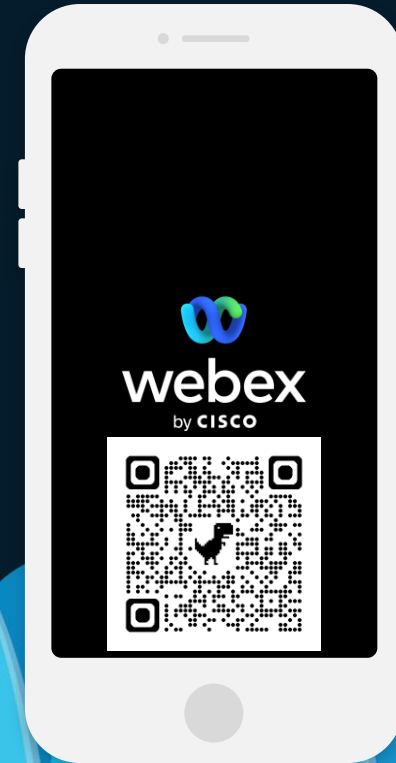
How

- 1 Find this session in the Cisco Live Mobile App
- 2 Click “Join the Discussion”
- 3 Install the Webex App or go directly to the Webex space
- 4 Enter messages/questions in the Webex space

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Acknowledge

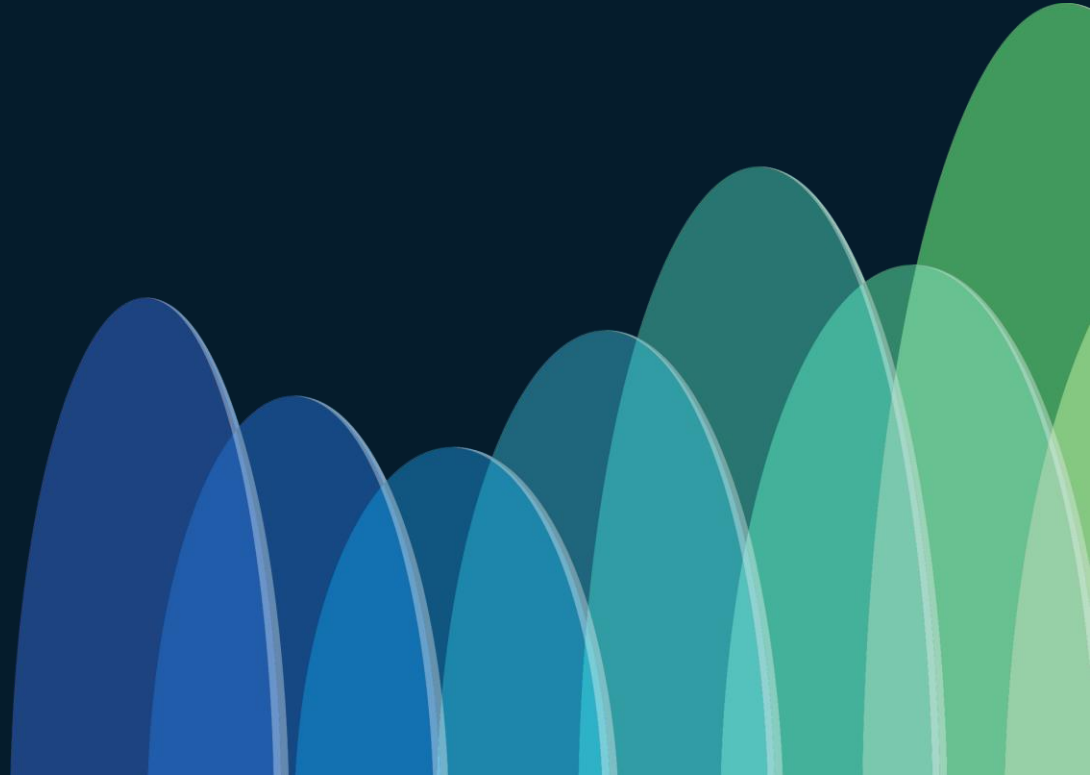
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Original Author of BRKCOM-2005 and supporting content

Agenda

- Intersight Organizations & Resource Groups
- Intersight RBAC
- Shared Organizations in IMM
- Cloning Across Organizations
- LAN and SAN Connectivity Policies
- Transitioning from Standalone Organizations to Shared Organizations
- IMM Server Policy Cleanup – Discovery Cleanup
- Domain Profile & Chassis Profile Templates
- Recent Additions
- IMM Learning Resources

Intersight Organizations & Resource Groups



Intersight organizations & resource groups

What are Organizations and Resource Groups?

- Organizations and Resource Groups are Intersight constructs that enable an administrator to "segment/compartmentalize" the UCS Infrastructure and apply applicable, desired RBAC. It enables multi-tenancy
- Organizations directly compartmentalize the Logical Policy Model (Pools, Policies, Templates and Profiles). The Organization get's designated first with the creation of any policy

Intersight organizations & resource groups

What are Organizations and Resource Groups?

- Resource Groups reflect Hardware Membership, and then 1 or more RGs get added to Organizations. (Think of UCS Central Domain Groups)
- Intersight includes a Default Organization and Default Resource Group
- For Policy Creation, you select the Organization first thing
- For HW Device Claim, all HW gets added to “Default RG” by default...can be edited/removed by Account Administrator

Intersight organizations & resource groups

So why use Organizations and Resource Groups?

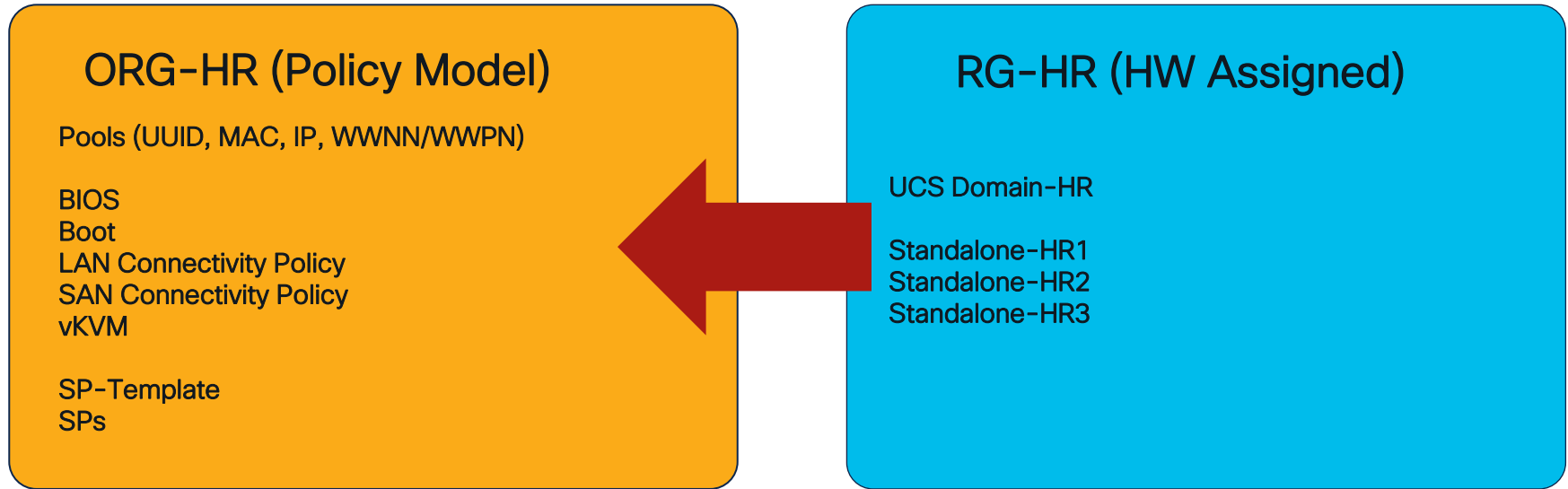
- RBAC Applied to the Organizations & Resource Groups. Do you need to compartmentalize your infrastructure? Who manages what?
- Need for security or compliance?
- Segment on business group, site location, or customer?
- Segment on Domain/Server configuration differences (Bare Metal/OS Type/Hypervisor Cluster)?

Intersight organizations & resource groups

Organizational differences from UCSM?

- No Hierarchy - No Policy Resolution Path. Not a bad thing, and Policy at-scale is addressed with IMM Shared Organizations
- Intersight Organizations are flat, all the same, and some can be Shared Organizations, and some can be targets of the Shared Organizations
- No Automatic deploy (UCSM used Maint Policy w/user Ack). Intersight is not always trying to make sure "end-state" matches "desired-state" Instead, with Intersight, we have Drift Detection and provide visual alerting when we need to redeploy profiles upon a given change (highlights the inconsistency)
- Segmentation Critical Difference - "Blast Radius" Concerns

Intersight Organizations & Resource Groups



Intersight Organizations & Resource Groups

User Roles – RBAC (Roles = Organization (s) + Privileges)

ORG-HR (Policy Model)

Pools (UUID, MAC, IP, WWNN/WWPN)

BIOS

Boot

LAN Connectivity Policy

SAN Connectivity Policy

vKVM

SP-Template

SPs

RG-HR (HW Assigned)

UCS Domain-HR

Standalone-HR1

Standalone-HR2

Standalone-HR3

Intersight Organizations & Resource Groups

Organization & Resource Groups - Scalability Limits

- An Intersight Account can have up to 50 Organizations
- An Intersight Account can have up to 100 Resource Groups
- Up to 10 Resource Groups can be added to an Organization
- Note: Organizational Sharing Rules covered later ...

Intersight Organizations & Resource Groups

NEW! Adding Servers to Resource Groups
(verses the entire UCS Domain)

- Up to this point, you had to add an entire UCS Domain to a Resource Group (RG).
- We are excited to bring to Intersight an important capability of adding individual UCS Domain Servers (B/X Series IMM Blades) to RGs
- This will assist Large Enterprise and MSP's with further segmenting a UCS Domain across multiple Use-Cases and Customers.

Adding servers to resource groups

The screenshot displays the Cisco Intersight 'Edit Resource Group' page. The left sidebar contains navigation links: Settings, Admin, Targets, Software Repository, Tech Support Bundles, Audit Logs, Sessions, and Licensing. The main content area is titled 'Edit Resource Group' and shows the 'General' tab. The 'Name' field is 'RG-Server-2' and the 'Description' field is empty. Under the 'Resources' section, the 'Custom' radio button is selected. A blue information box states: 'Selecting the checkbox will include the target and all sub-targets, as applicable, in the Resource Group, and any new sub-targets will be added automatically. To customize sub-target selection, click the Edit icon in the Sub-Target column. To learn more, visit Help Center.' Below this is a table with columns: Name, Targets, Sub-Target, Health, Status, Type, Claimed Time, and Claimed By. The table has one row: B26-6536-FI, 2 of 3, Healthy, Connected, Intersight Managed..., May 14, 2024 5:36 ..., mfailelo@cisco.com. An orange circle highlights the 'Targets' and 'Sub-Target' columns, and an orange arrow points to the 'B26-6536-FI' resource name. The bottom of the page has 'Cancel' and 'Save' buttons.

Name	Targets	Sub-Target	Health	Status	Type	Claimed Time	Claimed By
B26-6536-FI		2 of 3	Healthy	Connected	Intersight Managed...	May 14, 2024 5:36 ...	mfailelo@cisco.com

Adding servers to resource groups

Sub-Targets
Target: B26-6536-FI

Servers

Name	Health	Mo...	Me...	UC...	Ser...	Bu...	Usage in Resou...
☐ B26-6536-FI-1-1	Critical	UCSX-2...	153.6	1024.0	B26-65...	5.2(1.24...	RG-Server-... (2)
☒ B26-6536-FI-1-2	Critical	UCSX-2...	153.6	1024.0	B26-65...	5.2(1.24...	RG-Server-... (2)
☒ B26-6536-FI-1-3	Healthy	UCSX-2...	140.8	1024.0	B26-65...	5.2(1.24...	RG-Server-... (2)

Selected 2 of 3 [Show Selected](#) [Unselect All](#)

Decommissioned Servers

NO ITEMS AVAILABLE

[Update](#)

Intersight RBAC



Intersight RBAC

Reviewing Intersight RBAC Roles – and Assigning Roles to Users

- Currently, Intersight includes 12 system defined Roles and 43 assignable Privileges
- Privileges of System Roles cannot be changed
- Custom roles can be created and in creating the custom role you can select which Organization (all or specific) and what assignable Privilege you wish to associate with that Organization.
- You can add additional Organization-Privilege combinations to that custom role.

System roles – built in ...

- Account Administrator
- Read-Only
- Device Technician
- Device Administrator
- Server Administrator
- User Access Administrator
- Storage Administrator
- Workload Optimizer Admin
- Workload Optimizer Deployer
- Workload Optimizer Observer
- Workload Optimizer Automator
- HX Cluster Administrator

System privileges – 43 available ... includes

- Account Administrator
- Read-Only
- User Access Administrator
- Device Administrator
- Device Technician
- Server Administrator
- Storage Administrator
- Virtualization Administrator
- UCS Domain Administrator
- Audit Log Viewer
- SAN Administrator
- SAN Operator
- Network Operator
- Network Administrator
- Nexus Observer
- Nexus Administrator
- Nexus Config Administrator
- Integrated Systems Operator
- Integrated Systems Admin
- Support Services
- Service Designer
- Catalog Use
- Catalog Administrator
- Service Operator
- Nexus Analyst
- vKVM Only

Intersight.com/help – Resources

Summary of Roles and Privileges



Intersight

SaaS Help Center

- Home
- Getting Started
- What's New
- Infrastructure Service
- Cloud Orchestrator
- Workload Optimizer
- My Dashboard
- System
- Supported Systems
- Videos
- FAQs
- Resources
- Troubleshooting
- Bugs
- Device Console
- Glossary

- All Users except the Account Administrator have a read-only view of the License status and Account Details page under Settings.
- Server Administrator and HyperFlex Administrator can view Alarms and details of an alarm.
- All users can generate a maximum of 3 API keys per role.
- The account lockout banner for less than two Account Administrators can be snoozed for 30 days since acknowledgement and an alarm will be visible to users having read access to Alarms.

Summary of Roles and Privileges

The following table provides a list of Intersight roles and corresponding permissions.

Privileges / Permissions	Account Administrator	Read-Only (View Access only)	Device Technician	Device Administrator	User Access Administrator	Server Administrator	Storage Administrator	Virtualization Administrator	Workflow Designer	UCS Domain Administrator	Audit Log Viewer	External Syslog Administrator (Applicable for only Intersight Virtual Appliance)	SAN Administrator	SAN Operator	Network Administrator
Dashboard views	✓	✓				✓	✓			✓			✓	✓	✓
Servers Table view	✓	✓				✓				✓			✓		✓
HyperFlex Clusters Table view	✓	✓													
Fabric Interconnect Table view	✓	✓				✓ View details				✓ View details			✓	✓	✓
Storage Table view	✓	✓					✓								
Virtualization Table view	✓	✓						✓							
Server Profiles	✓	✓				✓ Create Server Profiles				✓			✓		✓
Policies	✓	✓				✓ Create Server policies				✓			✓	✓	✓

Creating a custom role

Selecting Org(s) and Privilege

Select Organization ...

Create

General

2 Configuration

Configuration

Select a Scope to delegate the user access to resources in the account.

Scope

Select 'All' to allow all the resources in the account or 'Organization' to give access to selected group of resources

☐ All ☒ Organization

Access Control

Organization * Privileges *

Organization

default

A04-Matt

B26

Boris

Boris-Shared

CL_MELBOURNE

Consumer-Org

DCP-X-Sandbox

Demo-DevNet

disoper-DevNet

Back Create

Select Privilege ...

Create

General

2 Configuration

Configuration

Select a Scope to delegate the user access to resources in the account.

Scope

Select 'All' to allow all the resources in the account or 'Organization' to give access to selected group of resources

☐ All ☒ Organization

Access Control

Organization * Privileges *

Organization

Read-Only

HyperFlex Cluster Administrator

Device Administrator

Device Technician

Server Administrator

Storage Administrator

Virtualization Administrator

Back Create

New enhanced RBAC!

Early CY 2025

Exciting Changes Coming! – Enhanced RBAC

- New Construct – Privilege Set
- Can Use Existing Roles (Privilege Set*) as a baseline to Modify, or Create Net-New
- Each Privilege Set is broken-down in successive, more granular settings
- Provides ability to customize Individual Actions

Coming – new Intersight enhanced RBAC!

Can Start with Adding System and Custom

Create Custom Privilege Set

Select Existing Privileges

Select the desired privileges, by adding existing system- or custom-defined privilege sets, to create a new custom privilege set.

[Add Existing](#) [Add Granular Privileges](#)

You can optionally use one or more existing system- or custom-defined privilege sets to create a new custom privilege set. To only use granular privileges, skip this to step **Add Granular Privileges**. Learn more in the [Help Center](#).

Q Add Filter 30 items found 10 per page 1 of 3

Name	Type	Description
☐ Account Administrator	System Defined	Access and manage all services and resources in Intersight
☒ Chassis Administrator	Custom	Manage chassis for my account
☐ Device Administrator	System Defined	Claim and manage targets
☐ Device Technician	System Defined	Claim a target
☐ HX Cluster Administrator	System Defined	Create and manage HyperFlex Clusters
☐ SAN Administrator	System Defined	Manage MDS switch objects in Intersight
☐ SAN Operator	System Defined	View MDS switch objects in Intersight
☒ Server Administrator	System Defined	Manage Servers
☐ Storage Administrator	System Defined	Manage storage targets in Intersight
☐ Workflow Administrator	Custom	Manage workflows

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

Coming – new Intersight enhanced RBAC!

Settings Admin

← Settings

Create Custom Privilege Set

Continue to Add/Remove Granular Privileges

1 General

2 Select Existing Privileges

3 Add Granular Privileges

4 Summary

Add Granular Privileges

Select the desired granular privileges to create a new custom privilege set.

1 Allow Privilege Updates enables any newly introduced privileges or any changes to be auto included in the new custom privilege set. Learn more in the [Help Center](#).

☒ Allow Privilege Updates ⓘ

1 Privileges that were selected in the previous step are already included here. Learn more in the [Help Center](#).

Select All ☐ Show Selected (19) Q Search

- ☒ Configure Intersight Infrastruct... >
- ☒ Operate Intersight Infrastruct... >
- ☐ Support Intersight Infrastruct... >
- ☐ System-Settings >
- ☐ System-Administration >
- ☐ Infrastructure Service-Operate >

- ☒ Configure Physical Server >
 - ☐ Configure Server Profile >
 - ☐ Configure Server Profile Templ... >
 - ☐ Configure Physical Chassis >
 - ☐ Configure Chassis Profile >
 - ☐ Configure Chassis Profile Temp... >
 - ☐ Configure Physical Domain >
 - ☐ Configure Domain Profile >
 - ☐ Configure Domain Profile Temp... >
- ☒ Decommission Server ⓘ
- ☒ Recommission Server ⓘ
- ☒ Remove Server ⓘ
- ☒ Upgrade Server Firmware ⓘ
- ☒ Install Operating System ⓘ
- ☒ Set Server Asset Tag ⓘ
- ☒ Set Server User Label ⓘ
- ☒ Set Server License Tier ⓘ
- ☒ Clear TPM ⓘ

Cancel Back Next

Coming – new Intersight enhanced RBAC!

Settings Admin

Create Custom Privilege Set

Summary

Review the details of the custom-defined privilege set.

General

Name: Custom_Privilege_Set_3

Description: Config. Server privilege set

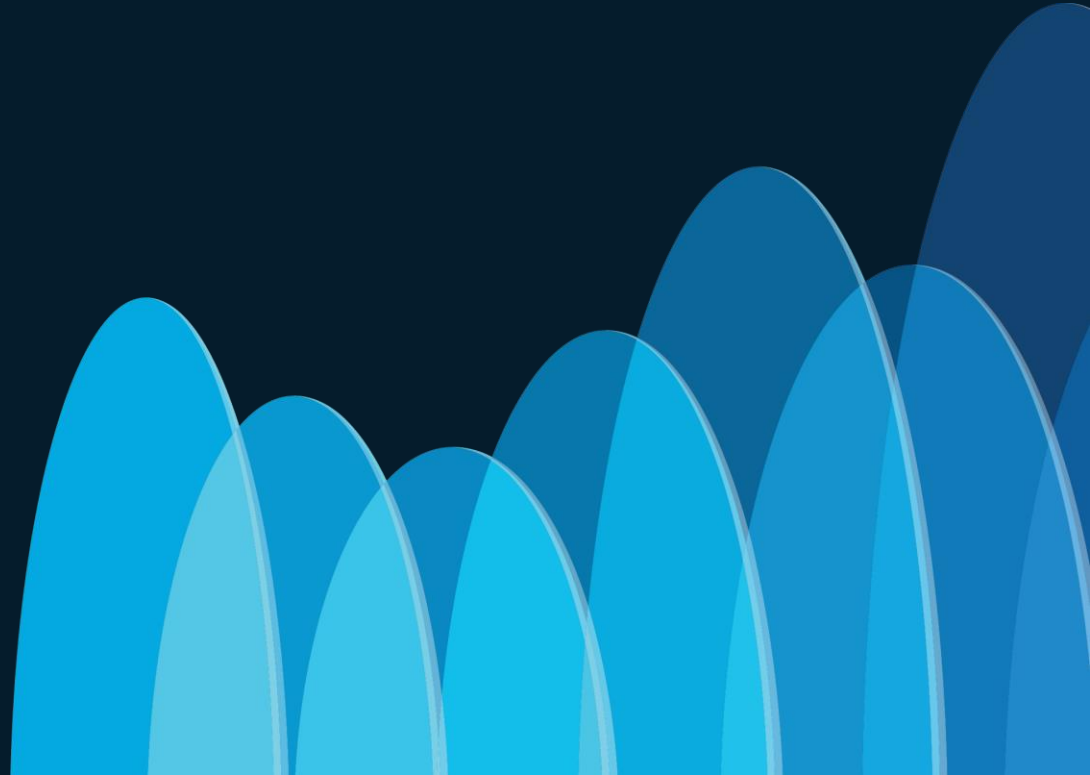
Allow Privilege Updates: Yes

Privileges (19)

- Configure Intersight Infrastructure
- Operate Intersight Infrastructure
- Configure Physical Server
- Decommission Server
- Recommission Server
- Remove Server
- Upgrade Server Firmware
- Install Operating System
- Set Server Asset Tag
- Set Server User Label
- Set Server License Tier
- Clear TPM
- Set IMC Certificate

Back Create

Shared Organizations in IMM



Intersight IMM – shared organizations

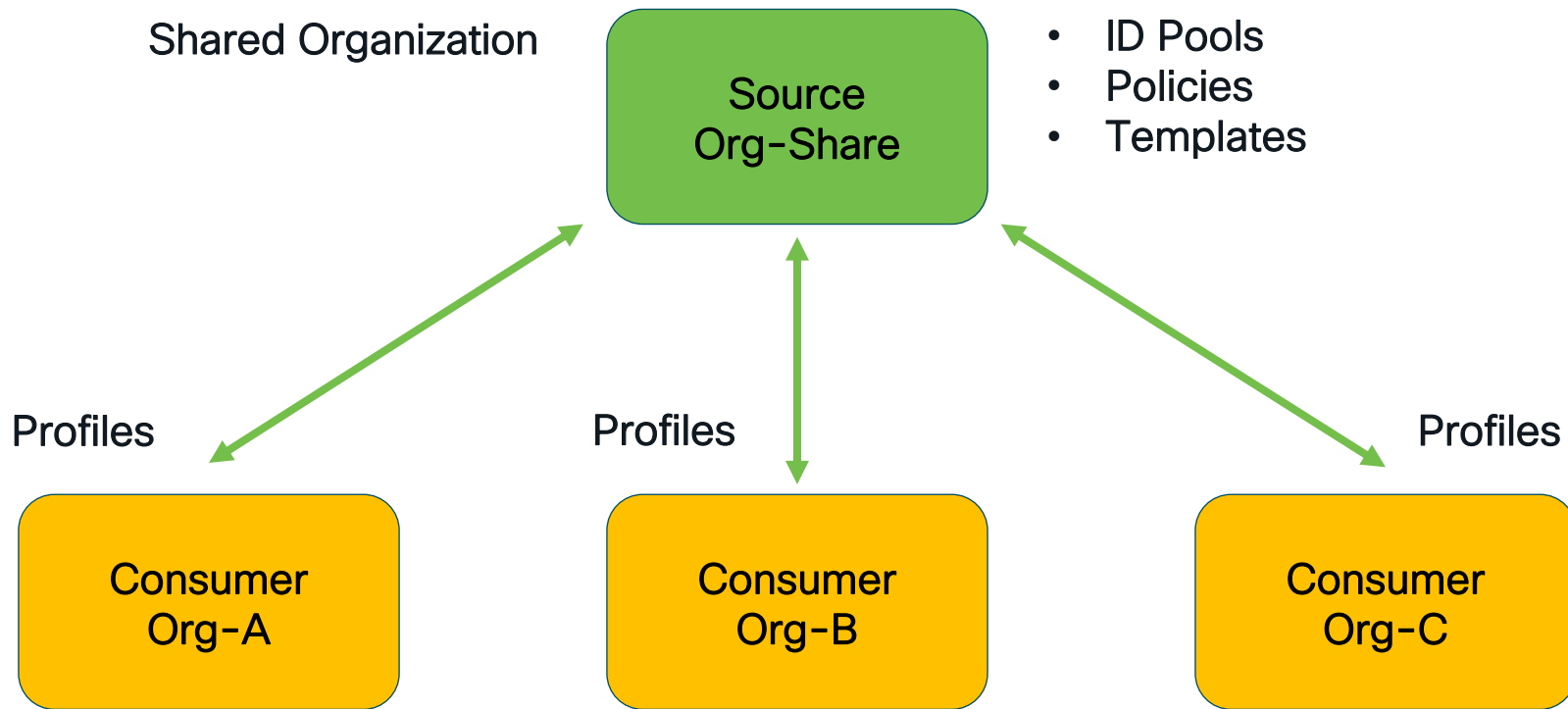
- Original IMM mandated Silo'd Organization structures
- Now we have Shared Organizations in IMM
- Addresses Policy Sprawl in creating large infrastructures
- Specifically focused on the IMM Policy Model
- Shared Organizations reduce OPEX
- Compare with UCSM/Central Org Policy Resolution (no nesting or hierarchical upward policy resolution)

IMM shared organizations - scalability

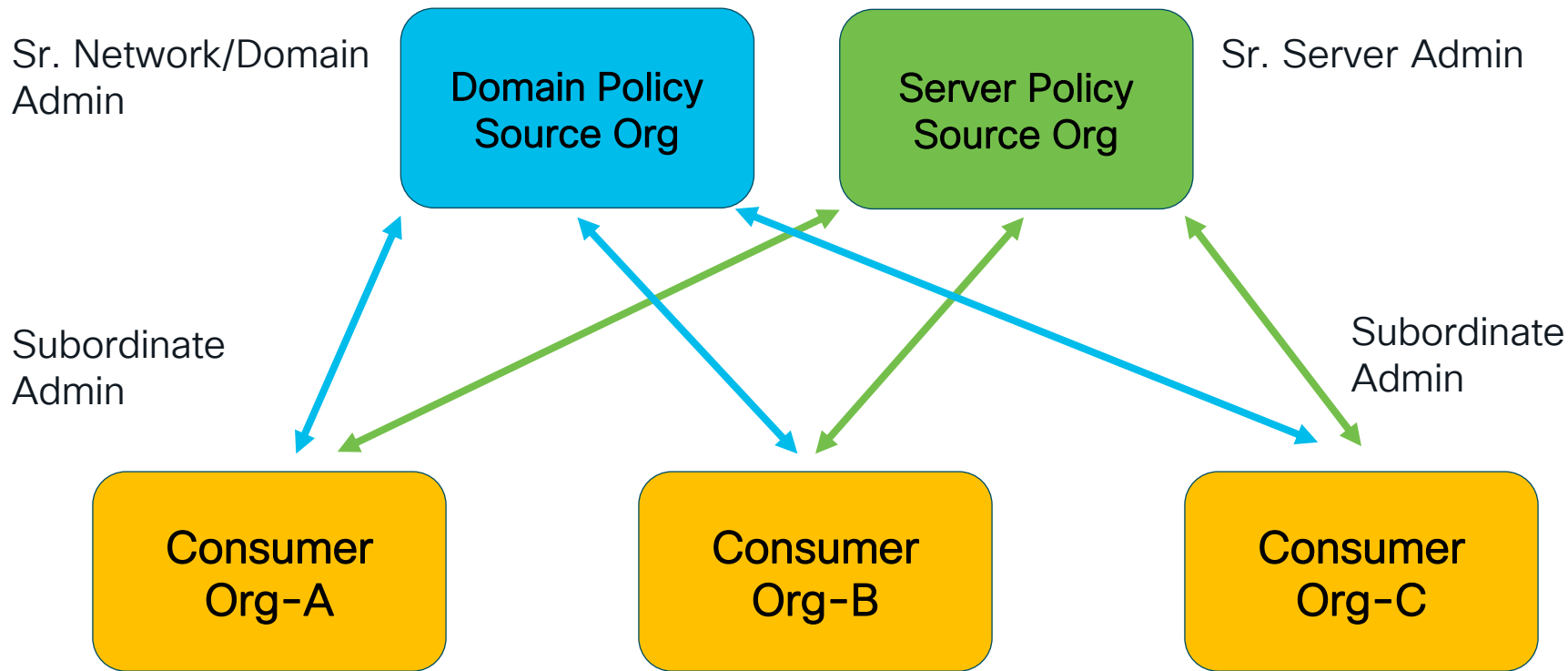
- Max Organizations in Intersight Account = 50
- Max Organizations that can be added to a Role = 5
- Max Sharing Rules in an Intersight Account = 200
- Max Resource Groups that can be added or Organization = 10
- Max Resource Groups in an Intersight Account = 100
- Max resources that can be added to a Resource Group = 5,000
- Note: Looking to expand these limits in the future...

IMM shared organizations - rules

- A source Organization can be shared with up to 49 consumer Organizations (50 per Account = 1 Shared + 49 Consumer)
- Example: 4 source Orgs shared with 46 consumer Orgs. That is $4+46=50$ Total Orgs and $4 \times 46=184$ (max is 200) sharing rules
- An Organization with a Resource Group attached, cannot be shared
- Phase-1: Port Policies (and embedded policies) must be in the same Org. Supported possibly by year-end.
- A consumer Org user must have at-least Read Access to the Shared source Org

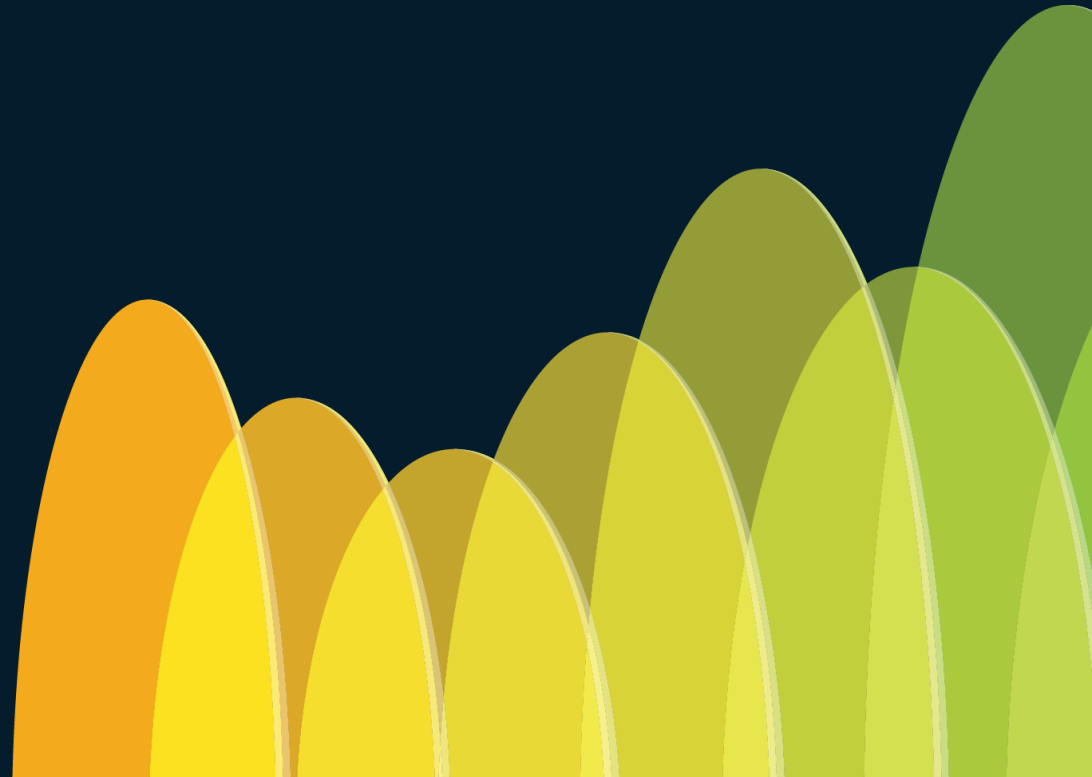


GREEN – Shared Org
ORANGE – Target Org



GREEN – Shared Server Policy Org
BLUE – Shared Domain Policy Org
ORANGE – Target Org

Cloning across Organizations



Policy cloning

- For times where you want to replicate a policy to another Org and have it remain as its own entity, no connection to the source Org
- Great utility for “scaling-out” UCS Architectures.
- Can Clone within same Organization and across Organizations
- No Org Sharing required to Clone across Organizations
- For Policies that do not include embedded Policies or Pools, then those single policies are cloned to the destination Organization with the same name

Policy cloning – across organizations

GA 25th of July

Deep Policy Clone:

- For Policies with embedded Policies or Pools (LAN/SAN Connectivity Policies, for example).
- User can choose one of 2 behaviors ...

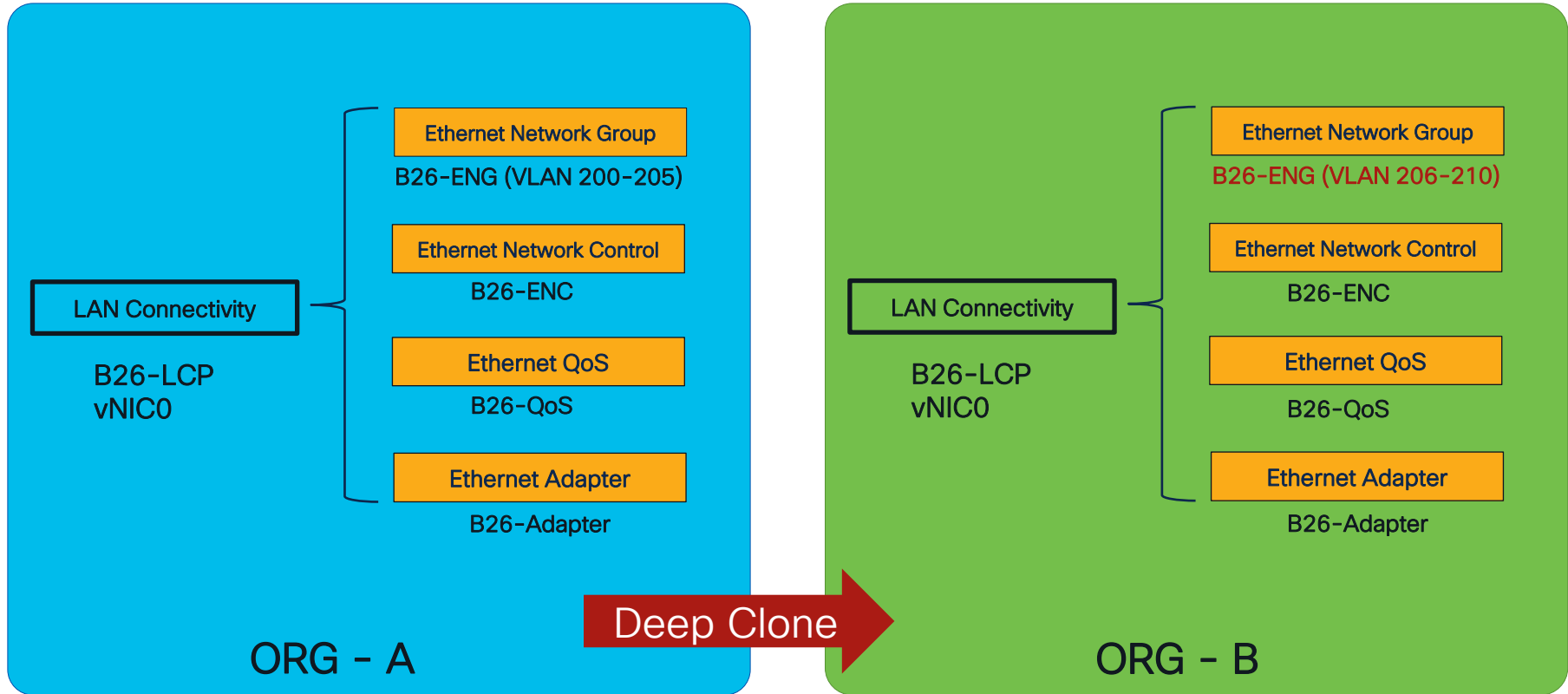
Policy cloning – across organizations

GA 25th of July

Behaviors:

1. **Reuse** (Same Name) – Use policies and pools in the destination Org with the same name – otherwise clone them, if not found
 - If any policies in destination Org have same name (exact match – case sensitive) ... the embedded policies in the destination Org will substitute for the embedded policies in the source Org (be careful!)
2. **Create new** (Clone All) – clone all policies and pools into the destination Org
 - All policies cloned – if a policy exists in the destination Org with the same name as the Source policy, then a clone of the original will be created with a suffix and used by the parent cloned policy

Deep policy cloning – reuse / “Same Name”



Deep policy cloning – reuse / “Same Name”

Policies Create Policy

* All Policies +

Q Search Organization: ORG-A +1 Filters 6 results Reset All Export

Platform Type

- UCS Server 6
- UCS Domain 3

Usage



■ Not Used 1
■ Indirect 5

☐	Name	Platform Type	Type	Usage	Last Update	Organization	
☒	B26-ENG	UCS Server, UCS Domain	Ethernet Network Group	Not Used - Indirect	a few seconds ago	ORG-B	...
☐	B26-LCPvNICO	UCS Server	LAN Connectivity	Not Used	19 minutes ago	ORG-A	...
☐	B26-Adapter	UCS Server	Ethernet Adapter	Used - Indirect	20 minutes ago	ORG-A	...
☐	B26-QoS	UCS Server	Ethernet QoS	Used - Indirect	20 minutes ago	ORG-A	...
☐	B26-ENC	UCS Server, UCS Domain	Ethernet Network Control	Used - Indirect	21 minutes ago	ORG-A	...
☒	B26-ENG	UCS Server, UCS Domain	Ethernet Network Group	Used - Indirect	22 minutes ago	ORG-A	...

Selected 2 of 6 Show Selected Unselect All

Rows per page 100 < 1 >

Deep policy cloning – reuse / “Same Name”

Policies Create Policy

* All Policies +

Search Organization = ORG-A +1 x Filters 6 results Reset All Export

Platform Type
UCS Server 6
UCS Domain 3

Usage
6
Not Used 1
Indirect 5

☐	Name	Platform Type	Type	Usage	Last Update	Organization	
☐	B26-ENG	UCS Server, UCS Domain	Ethernet Network Group	Not Used - Indirect	4 minutes ago	ORG-B	...
☒	B26-LCPvNICO	UCS Server	LAN Connectivity	Not Used	23 minutes ago	ORG-A	...
☐	B26-Adapter	UCS Server	Ethernet Adapter	Used - Indirect	23 minutes ago	ORG-A	...
☐	B26-QoS	UCS Server	Ethernet QoS	Used - Indirect	24 minutes ago	ORG-A	...
☐	B26-ENC	UCS Server, UCS Domain	Ethernet Network Control	Used - Indirect	25 minutes ago	ORG-A	...
☐	B26-ENG	UCS Server, UCS Domain	Ethernet Network Group	Used - Indirect	26 minutes ago	ORG-A	...

Selected 1 of 6 Show Selected Unselect All Rows per page 100 < 1 >

Edit
Delete
Clone

Deep policy cloning – reuse / “Same Name”

Policies > LAN Connectivity > B26-LCPvNIC0

Clone

General

Select the name, description and tags for the clone.

Source Policy

Organization ORG-A	Policy Name B26-LCPvNIC0
Platform Type UCS Server	Type LAN Connectivity
Tags -	Description -

Clone Details

Policy Name * B26-LCPvNIC0	Organization * ORG-B
Description Description	Set Tags Enter a tag in the key:value

0 / 1024

Attached Policy and Pool Behaviour

☒ Reuse existing policies and pools in the destination organization with the same name. **Clone if not found.**

☐ Create new clones for all policies and pools inside of the destination organization.

If the Policy/Pool reference already exists with same name in the destination organization or in any organization that shares the configuration with destination organization, it will be attached to the cloned Policy. If no match exists, the Policy/Pool is cloned. For Pools, the identifier blocks will not be created when cloned.

Deep policy cloning – reuse / “Same Name

The screenshot displays the Cisco ISE Policy Editor interface for a policy named **B26-ENG**. The interface is divided into three main sections: Details, Usage, and Configuration.

Details Section:

- Name:** B26-ENG
- Description:** -
- Type:** Ethernet Network Group
- Target Platform:** -
- Last Update:** 3 minutes ago
- Organization:** ORG-B
- Tags:** No Tags

Usage Section:

Profiles and Templates: Policies

Search: [Search] Filters 1 results

Export

☐	Name	Platform Type	Type	Usage	Last Update
☐	B26-LCPvNICO	UCS Server	LAN Connectivity	Not Used	a minute ago

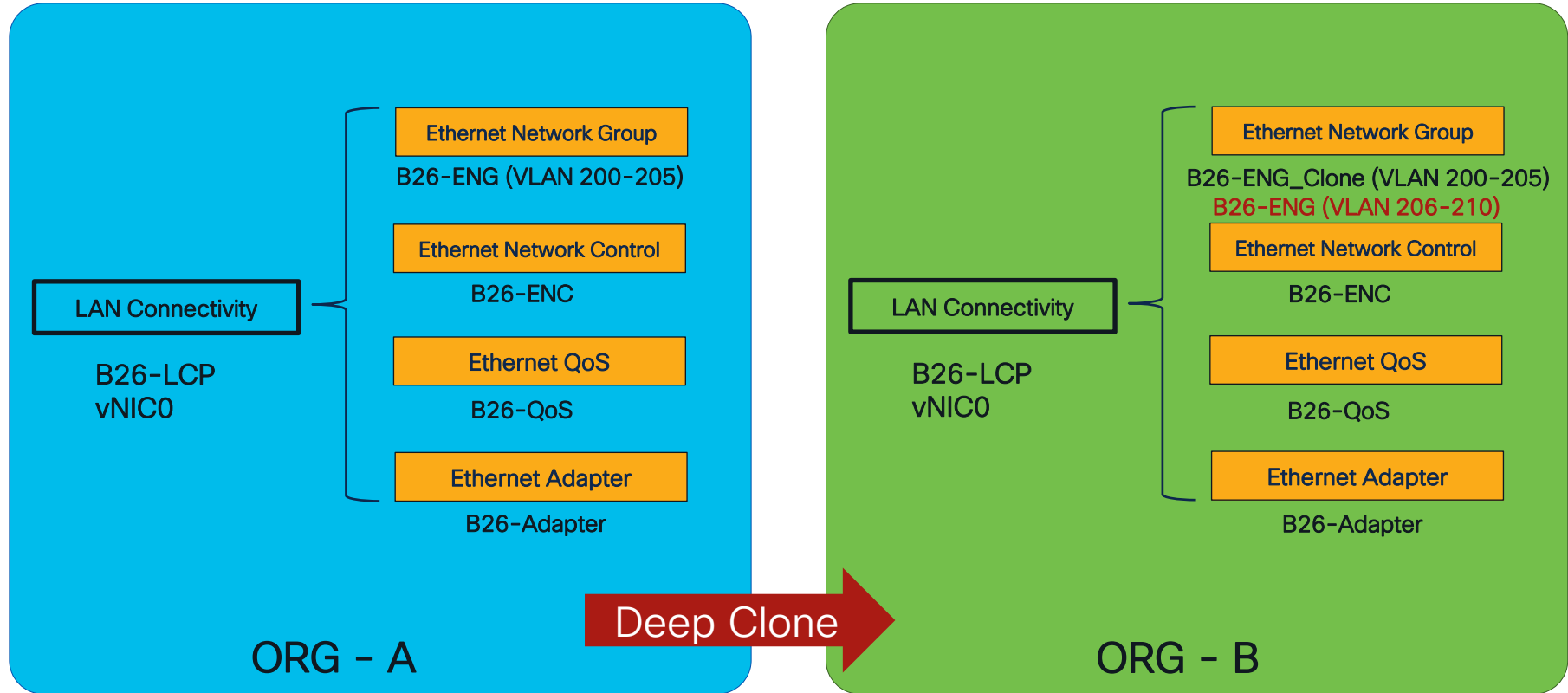
Rows per page: 10 < 1 >

Configuration Section:

VLAN Settings

- Native VLAN:** -
- Enable QinQ Tunneling:** Off
- Allowed VLANs:** 206-210

Deep policy cloning – create new /“Clone All”



Deep policy cloning – create cew / “Clone All”

Policies Create Policy

* All Policies +

Q Search Organization: ORG-A +1 x Filters 6 results Reset All Export

Platform Type

- UCS Server 6
- UCS Domain 3

Usage

6
■ Not Used 1
■ Indirect 5

☐	Name	Platform Type	Type	Usage	Last Update	Organization	
☒	B26-ENG	UCS Server, UCS Domain	Ethernet Network Group	Not Used - Indirect	a few seconds ago	ORG-B	...
☐	B26-LCPvNICO	UCS Server	LAN Connectivity	Not Used	19 minutes ago	ORG-A	...
☐	B26-Adapter	UCS Server	Ethernet Adapter	Used - Indirect	20 minutes ago	ORG-A	...
☐	B26-QoS	UCS Server	Ethernet QoS	Used - Indirect	20 minutes ago	ORG-A	...
☐	B26-ENC	UCS Server, UCS Domain	Ethernet Network Control	Used - Indirect	21 minutes ago	ORG-A	...
☒	B26-ENG	UCS Server, UCS Domain	Ethernet Network Group	Used - Indirect	22 minutes ago	ORG-A	...

Selected 2 of 6 Show Selected Unselect All

Rows per page 100 < 1 >

Deep policy cloning – create new /“Clone All”

Policies Create Policy

* All Policies +

Search Organization = ORG-A +1 Filters 6 results Reset All Export

Platform Type
UCS Server 6
UCS Domain 3

Usage
6
Not Used 1
Indirect 5

☐	Name	Platform Type	Type	Usage	Last Update	Organization	
☐	B26-ENG	UCS Server, UCS Domain	Ethernet Network Group	Not Used - Indirect	4 minutes ago	ORG-B	...
☒	B26-LCPvNICO	UCS Server	LAN Connectivity	Not Used	23 minutes ago	ORG-A	...
☐	B26-Adapter	UCS Server	Ethernet Adapter	Used - Indirect	23 minutes ago	ORG-A	...
☐	B26-QoS	UCS Server	Ethernet QoS	Used - Indirect	24 minutes ago	ORG-A	...
☐	B26-ENC	UCS Server, UCS Domain	Ethernet Network Control	Used - Indirect	25 minutes ago	ORG-A	...
☐	B26-ENG	UCS Server, UCS Domain	Ethernet Network Group	Used - Indirect	26 minutes ago	ORG-A	...

Selected 1 of 6 Show Selected Unselect All Rows per page 100 1

Edit
Delete
Clone

Deep policy cloning – create new /“Clone All”

Policies > LAN Connectivity > B26-LCPvNICO

Clone

General

Select the name, description and tags for the clone.

Source Policy

Organization
ORG-A

Policy Name
B26-LCPvNICO

Platform Type
UCS Server

Type
LAN Connectivity

Tags
-

Description
-

Clone Details

Policy Name *

B26-LCPvNICO

Organization *

ORG-B

Description

Description

Set Tags

Enter a tag in the key:value

0 / 1024

Attached Policy and Pool Behaviour

- ☐ Reuse existing policies and pools in the destination organization with the same name.
- ☒ Create new clones for all policies and pools inside of the destination organization. ⓘ

New Policies/Pools will be created for all attached Policies/Pools. If a Policy/Pool with the same name and type already exists in the destination organization, or in any organization sharing configurations with it, a clone with a new name will be created using the provided suffix. For Pools, the identifier blocks will not be created when cloned.

Suffix Name * ⓘ

_Clone

Deep policy cloning – create new /“Clone All”

Policies

Create Policy

* All Policies +

Q Search

Organization = ORG-A +1 × Filters 11 results Reset All

Export

Platform Type

UCS Server 11

UCS Domain 5

Usage

11

Not Used 2

Indirect 9

☐	Name	Platform Type	Type	Usage	Last Update	Organization	
☐	B26-Adapter	UCS Server	Ethernet Adapter	Used - Indirect	a few seconds ago	ORG-B	...
☐	B26-QoS	UCS Server	Ethernet QoS	Used - Indirect	a few seconds ago	ORG-B	...
☐	B26-ENC	UCS Server, UCS Domain	Ethernet Network Control	Used - Indirect	a few seconds ago	ORG-B	...
☒	B26-ENG_CLONE	UCS Server, UCS Domain	Ethernet Network Group	Used - Indirect	a few seconds ago	ORG-B	...
☒	B26-LCPvNICO	UCS Server	LAN Connectivity	Not Used	a few seconds ago	ORG-B	...
☒	B26-ENG	UCS Server, UCS Domain	Ethernet Network Group	Not Used - Indirect	5 minutes ago	ORG-B	...
☐	B26-LCPvNICO	UCS Server	LAN Connectivity	Not Used	24 minutes ago	ORG-A	...
☐	B26-Adapter	UCS Server	Ethernet Adapter	Used - Indirect	24 minutes ago	ORG-A	...
☐	B26-QoS	UCS Server	Ethernet QoS	Used - Indirect	25 minutes ago	ORG-A	...
☐	B26-ENC	UCS Server, UCS Domain	Ethernet Network Control	Used - Indirect	26 minutes ago	ORG-A	...
☐	B26-ENG	UCS Server, UCS Domain	Ethernet Network Group	Used - Indirect	27 minutes ago	ORG-A	...

Deep policy cloning – create new /“Clone All”

The screenshot displays the Cisco ISE Policy Editor interface for a policy named **B26-ENG_CLONE**. The interface is divided into three main sections: Details, Usage, and Configuration.

Details: This section on the left contains the following information:

- Name:** B26-ENG_CLONE
- Description:** -
- Type:** Ethernet Network Group
- Target Platform:** -
- Last Update:** a few seconds ago
- Organization:** ORG-B
- Tags:** No Tags (with a **Set** button)

Usage: This central section shows the policy's application. It includes a search bar, a **Filters** button, and a table with 1 result.

☐	Name	Platform Type	Type	Usage	Last Update
☐	B26-LCPvNICO	UCS Server	LAN Connectivity	Not Used	a few seconds ago

Below the table, there is a **Rows per page** dropdown set to 10 and a pagination control showing 1 of 1 results. An **Export** button is located at the top right of the table.

Configuration: This section on the right shows the policy's configuration:

- VLAN Settings:**
 - Native VLAN:** -
 - Enable QinQ Tunneling:** Off
 - Allowed VLANs:** 200-205

Org sharing & policy cloning whitepaper



Products and Services Solutions Support Learn

Trials and demos

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IMM Configuration Sharing Across Organizations and Policy Cloning White Paper

Updated: October 24, 2023

Bias-Free Language

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Example – Policy Cloning Acro...

Rules – Policy cloning

Conclusion

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Introduction

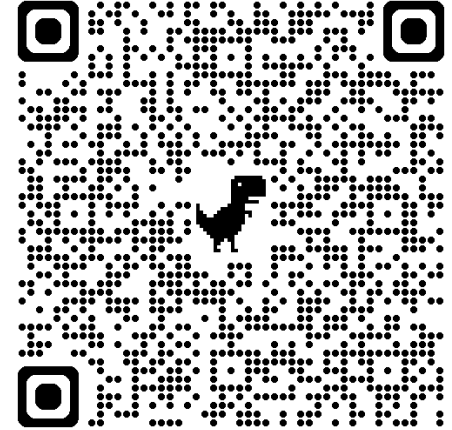
This guide discusses several much-anticipated features recently added to Cisco Intersight® Managed Mode (IMM) that allows logical resources (pools, policies, and templates) in one organization (org) to be shared with resources in another organization, coupled with ways to clone these logical resources across organizations.

While many customers transition to IMM from spending years with Cisco UCS® Manager (UCSM) and Cisco UCS Central (UCS Central) and having a deep understanding of these management solutions, some customers will adopt IMM with their initial introduction and implementation of Cisco UCS – perhaps with a new Cisco UCS X-Series deployment, for example – and do not come from the traditional UCSM/UCS Central knowledge background. For new Cisco UCS customers, please feel free to skip the initial section below: “Context – Where we were and where we are now...” and resume with the following section “Explanation – configuration sharing across organizations,” as you see fit.

Context – Where we were and where we are now

Before we embark on explaining some exciting new functionalities in IMM, let's briefly review some important capabilities and differences as compared to UCSM and UCS Central, particularly for existing customers who struggle with the lack of organization policy resolution in IMM.

White Paper



<https://www.cisco.com/c/en/us/products/collateral/cloud-systems-management/intersight/imm-con-sharing-across-organization-cloning-wp.html>

Org sharing & policy cloning

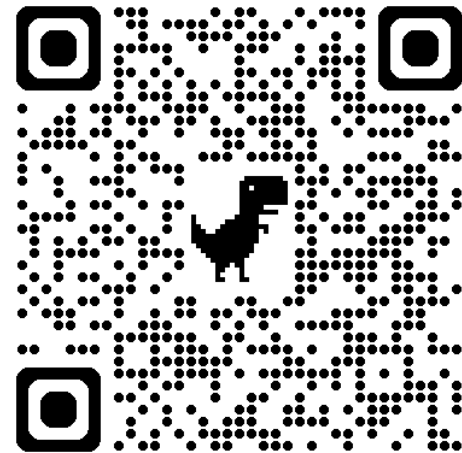
Intersight Resources



The screenshot shows the Cisco Intersight SaaS Help Center interface. The main heading is "Configuration Sharing Across Organizations". Below it, the "Overview" section explains that organizations can share configuration resources (policies, profiles, pools, templates, and OS installation resources) with other organizations. It mentions that administrators can store common configuration resources in one or more centralized source organizations to facilitate easy access and consumption for multiple consumer organizations. It also references the "IMM Configuration Sharing Across Organizations and Policy Cloning White Paper".

The matrix below displays the supported actions for policies, pools, profiles, templates, and OS installation resources across organizations:

Resources	Action	Within same Organization	Sharing from Org (source) to other Orgs (consumers)	Sharing from consumer Orgs to source Org
Policies	Clone	Yes	Yes	—
	Use in Profile	Yes	Yes	—
Pools	Use in Profile	Yes	Yes	—
Domain Profiles	Clone	Yes	Yes	—
Server Profiles	Clone	Yes	Yes	—
	Create Template from Profile	Yes	Yes	Yes
	Attach to Template	Yes	—	Yes
Server Profile Templates	Clone	Yes	Yes	—
	Derive Profiles	Yes	Yes	—
<ul style="list-style-type: none">OS Image LinksSCU LinksOS Configuration Files	OS Installation	Yes	Yes	—
		Yes	Yes	—
		Yes	Yes	—



https://intersight.com/help/saas/resources/config_sharing_across_orgs#overview

LAN and SAN Connectivity Policies



LAN & SAN connectivity policies

Use Case 1: Auto vNIC Placement - X210C M6 Compute Node with VIC 14425 MLOM + Demo

Use Case 2: Manual vNIC Configuration w/ Simple Placement - X210C M6 Compute Node with VIC 14425 MLOM + Demo

Use Case 3: Manual vNIC & vHBA Configuration with Advanced Placement - X210C M6 Compute Node with VIC 14425 MLOM + Demo

Use Case 4: Manual vNIC & vHBA Configuration with Advanced Placement - B200 M5 with VIC 1440 MLOM & VIC 1480 + Demo

Use Case 1: Auto vNIC placement

Example X210C M6 Compute Node with VIC 14425 MLOM

Also applies to M7 and M8 nodes with VIC 15000 series

Can use Auto vNICs Placement, in which the system defines the Adapter placement and PCI order – Just choose Fabric (A or B)

Great for single adapter Blades/Servers and you don't necessarily care about the PCI Order of vNICs and vHBAs (vNICs precede vHBAs)

If more than one Adapter is being used (Example, VIC 1440 and 1480), then the newly created vNICs are distributed across both adapters during SP deployment

If using Auto vNIC Placement for the LAN Connectivity Policy, then you must also choose Auto Placement for SAN Connectivity Policy. Cannot Mix Placement Options between the two Policies on a given SP

Use Case 2: Manual vNIC Conf: simple placement

Example X210C M6 Compute Node with VIC 14425 MLOM

Also applies to M7 and M8 nodes with VIC 15000 series

With Manual, must select PCI Order, and that order must start with 0 for the first PCIe Device, and then increment for additional PCIe Devices. This unique numbering is per Adapter, and needs to be honored across LAN & SAN Connectivity policies

Simple Placement allows system to automatically determine the Slot ID and PCI Link (applies to 1300 Series VICs), In case of multiple adapters in the Blade/Server, it chooses the first Adapter and places all the vNICs on that first adapter. Choose Fabric (A or B) and Define PCI Order

Don't use Simple Placement for 1300 series VICs with Dual PCI Link

Use Case 3: Manual vNIC/vHBA Conf: advanced placement

Example X210C M6 Compute Node with VIC 14425 MLOM

Also applies to M7 and M8 nodes with VIC 15000 series

Manual with Advanced Placement, not only allows for selecting PCI Order, but also Slot ID & PCI Link

Slot ID corresponds to the Adapter in the Server/Blade. Numbering starts with MLOM, and then can be 1-15 afterwards. Single Adapter will be just MLOM

PCI Link should be 0, unless you are dealing with a 1300 Series VIC with the Dual PCI Link Cruz-based ASIC

PCI Order must start with 0 for the first PCIe Device, and then increment for additional PCIe Devices. This unique numbering is per Adapter, and needs to be honored across LAN & SAN Connectivity policies

Use Case 4: Manual vNIC/vHBA Conf: advanced placement

With Dual Adapters

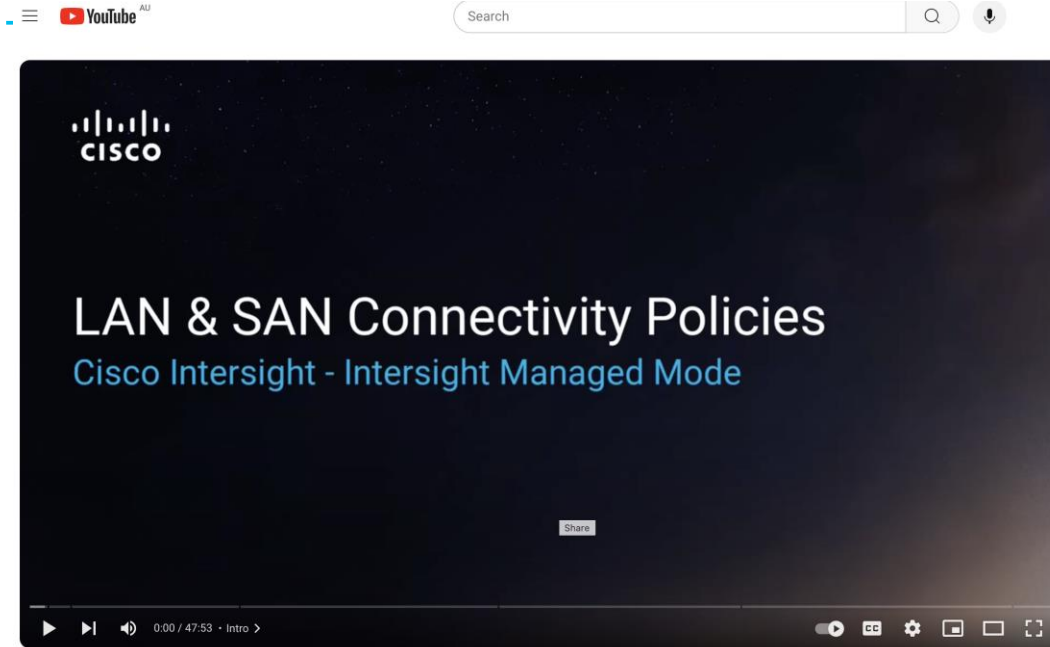
Also applies to M7 and M8 nodes with VIC 15000 series

B200 M5 Server with VIC 1440 (Slot ID=MLOM) and VIC 1480 (Slot ID=1) LAN & SAN Connectivity Polices

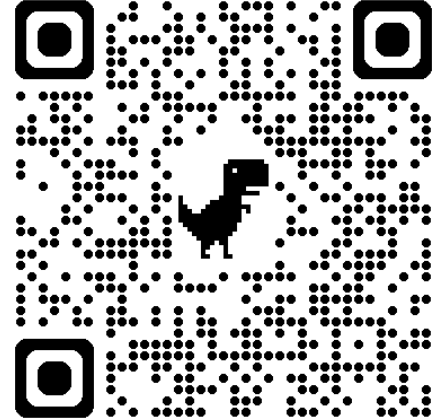
Create HA Pair of vNICs and vHBAs. Place the HA Pair's of PCIe devices on different Adapters (Slot ID's) with same PCI Order.

vNIC/vHBA	PCI Order	Slot ID (Adapter)	Switch ID
vhba0	0	MLOM	A
vhba1	0	1	B
vnic0	1	MLOM	A
vnic1	1	1	B
vnic2	2	MLOM	A
vnic3	2	1	B

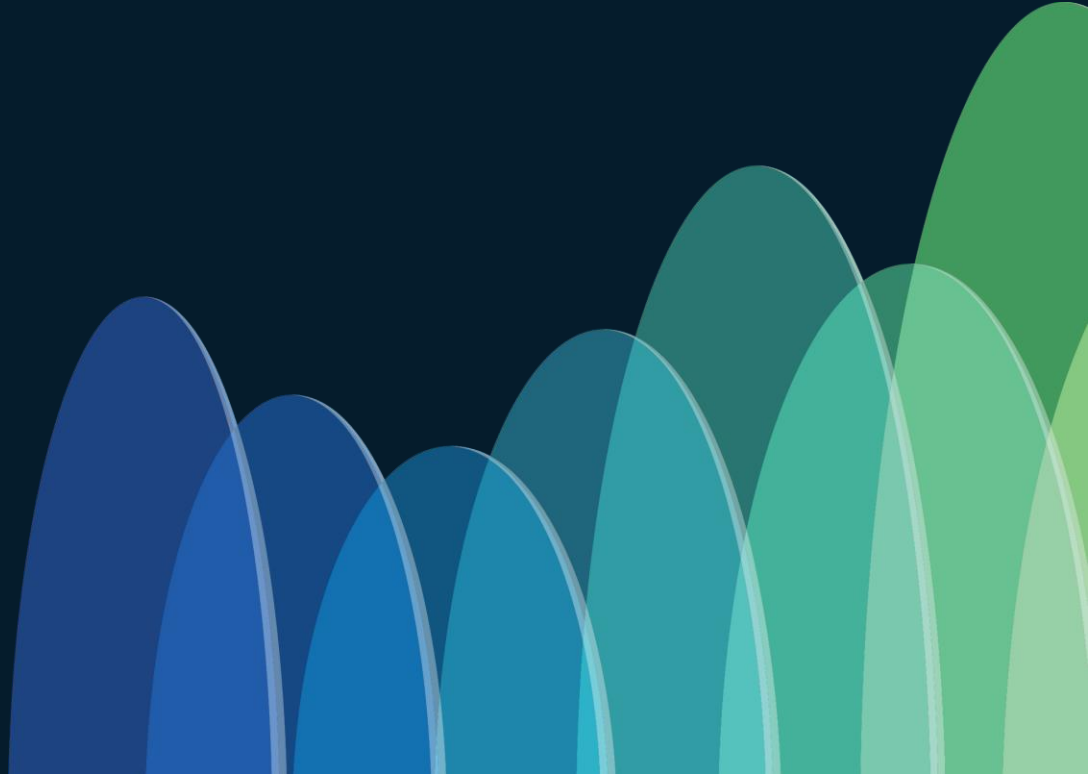
Intersight LAN & SAN connectivity policies



Advantage IMM #5 - Intersight IMM LAN & SAN Connectivity Policies



Transitioning from Standalone Orgs to Shared Orgs

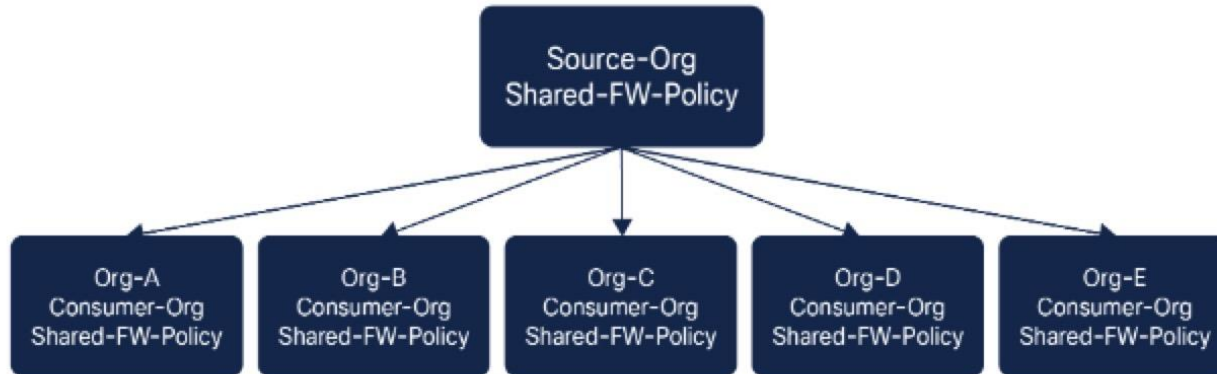


Migrating from standalone orgs to shared orgs



Migrating from standalone orgs to shared orgs

1. Create New Source Org and share with Consumer Orgs
2. No HW Resources in Source Org - Allows Sharing
3. Create same FW Policy, Shared-FW-Policy in Source-Org



4. Consumer Orgs maintain their existing Resource Groups - No Impact
5. Within each SP-Template/SP in each Consumer Org, edit and change reference for the FW-Policy to the Shared-FW-Policy in the Source-Org
6. After all SP-Templates/SPs have switched their references to the Shared-FW-Policy in the Source-Org, remove the individual FW-Policies in the Consumer-Orgs (Cleanup)

ORANGE – Silo'd Org

GREEN – Silo'd Org

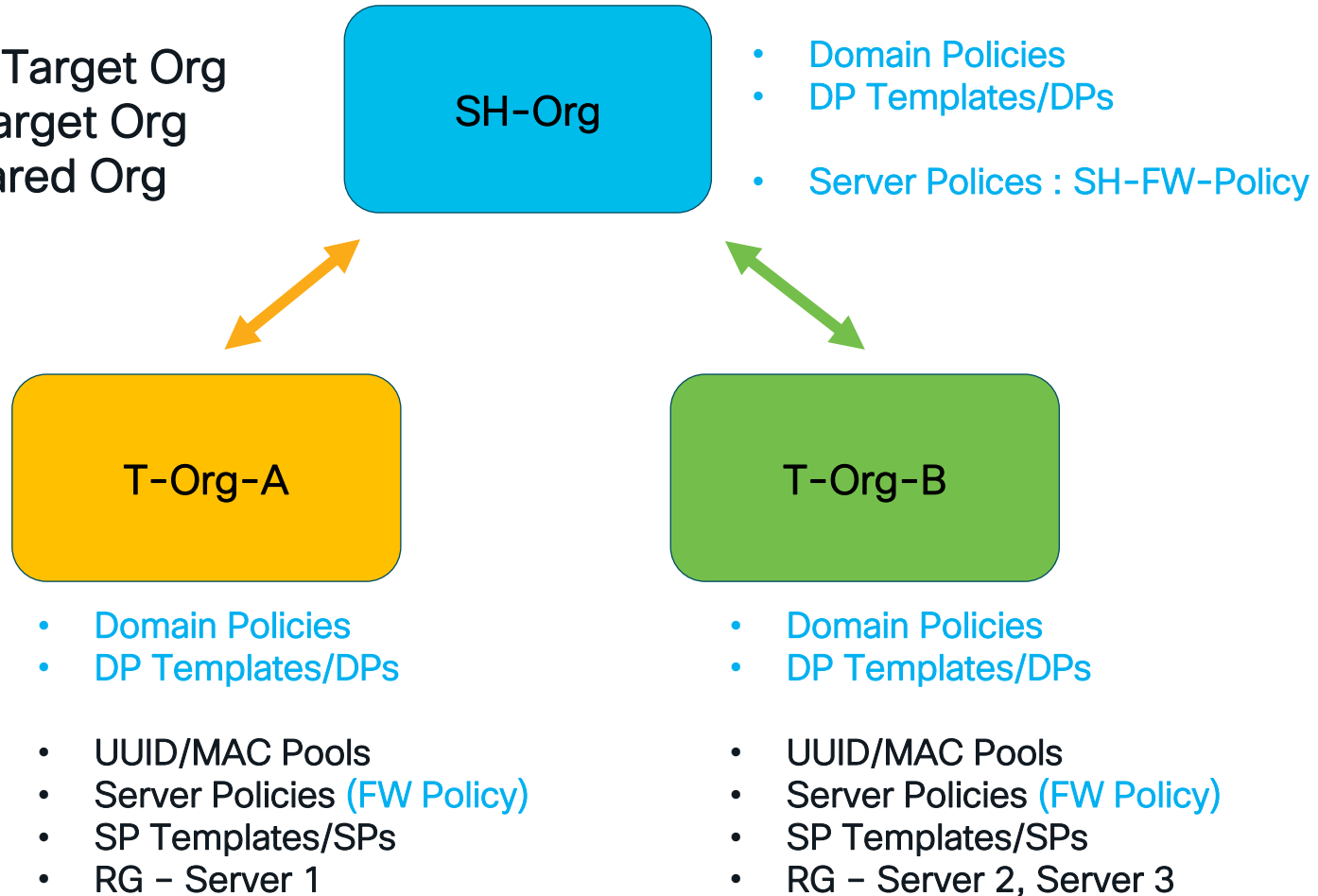
T-Org-A
Silo'd

- Domain Policies
- DP Templates/DPs
- UUID/MAC Pools
- Server Policies (FW Policy)
- SP Templates/SPs
- RG – Server 1

T-Org-B
Silo'd

- Domain Policies
- DP Templates/DPs
- UUID/MAC Pools
- Server Policies (FW Policy)
- SP Templates/SPs
- RG – Server 2, Server 3

ORANGE – Target Org
GREEN – Target Org
BLUE – Shared Org



IMM Server Policy Cleanup – Discovery Cleanup



Server policy cleanup – discovery

New Capability – GA 19th of September

- Policy Cleanup during first time Discovery by resetting the server configurations to default settings.
- Policy Cleanup also during Decommission/Recommission
- Does Not touch Storage i.e. Not a **Scrub Policy**

Server policy cleanup

New Capability – GA 3rd of October

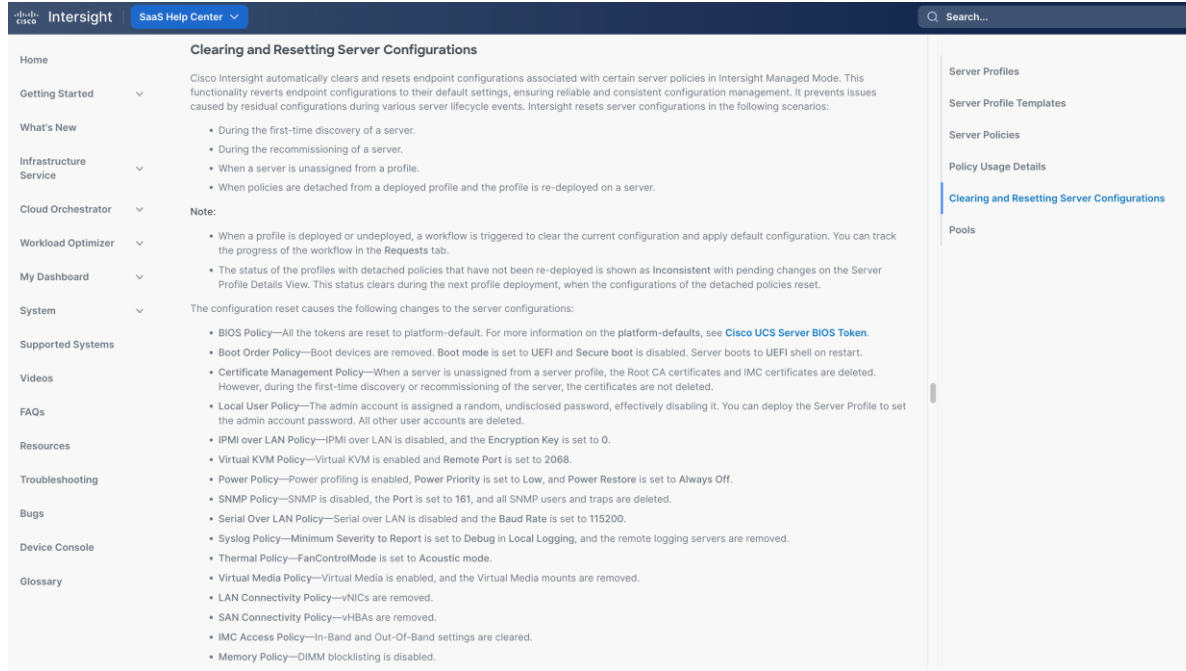
- Goal: Cleanup configurations when policies are removed from a deployed Server Profile and the Profile is re-deployed
- Existing Profiles – When a policy is detached, and the SP is not redeployed, then that Profile will be marked as “Inconsistent with Pending Changes” and will be cleaned-up on next SP deploy
- 20 Policies are cleaned-up ...
- Don't touch Storage Policies.
- There's nothing to clean-up with FW Policies

Scrub policy

New Capability – GA 3rd of October

- Goal: cleanup data on local disk and reset BIOS Settings, as we had in UCSM
- Optional – Kicks off at end of “**Undeploy Server Profile**” workflow
- Two config options
 - Disk Clean
 - Bios Reset

Clearing and resetting server configurations



The screenshot shows the Cisco Intersight SaaS Help Center interface. The main content area is titled "Clearing and Resetting Server Configurations". It explains that Cisco Intersight automatically clears and resets endpoint configurations associated with certain server policies in Intersight Managed Mode. It lists several scenarios where this occurs:

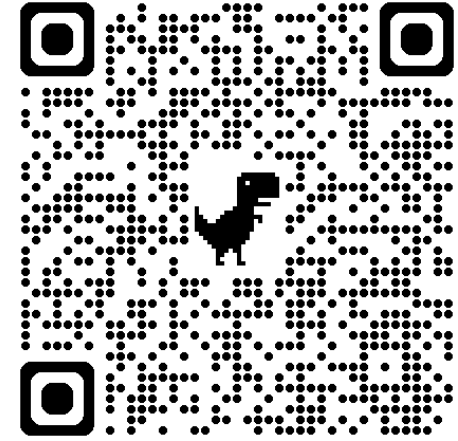
- During the first-time discovery of a server.
- During the recommissioning of a server.
- When a server is unassigned from a profile.
- When policies are detached from a deployed profile and the profile is re-deployed on a server.

A "Note" section states: "When a profile is deployed or undeployed, a workflow is triggered to clear the current configuration and apply default configuration. You can track the progress of the workflow in the Requests tab." It also mentions that the status of profiles with detached policies is shown as "Inconsistent" with pending changes on the Server Profile Details View.

The "System" section lists the configuration reset changes to the server configurations:

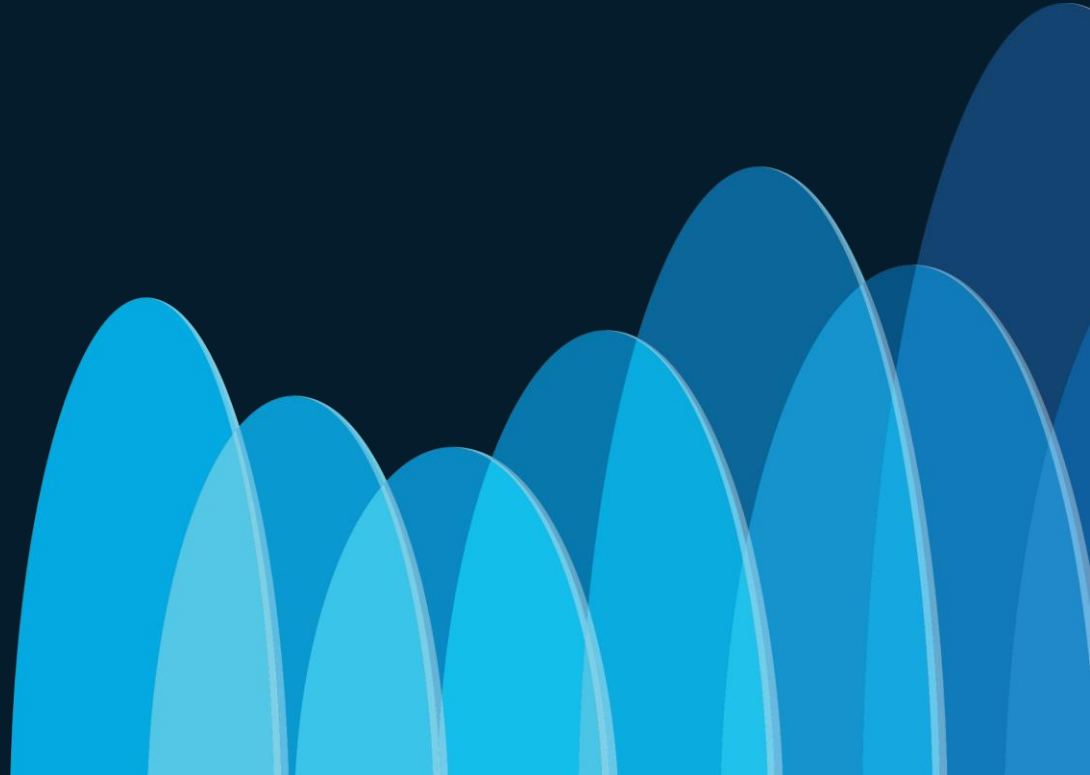
- BIOS Policy—All the tokens are reset to platform-default. For more information on the platform-defaults, see [Cisco UCS Server BIOS Token](#).
- Boot Order Policy—Boot devices are removed. Boot mode is set to UEFI and Secure boot is disabled. Server boots to UEFI shell on restart.
- Certificate Management Policy—When a server is unassigned from a server profile, the Root CA certificates and IMC certificates are deleted. However, during the first-time discovery or recommissioning of the server, the certificates are not deleted.
- Local User Policy—The admin account is assigned a random, undisclosed password, effectively disabling it. You can deploy the Server Profile to set the admin account password. All other user accounts are deleted.
- IPMI over LAN Policy—IPMI over LAN is disabled, and the Encryption Key is set to 0.
- Virtual KVM Policy—Virtual KVM is enabled and Remote Port is set to 2068.
- Power Policy—Power profiling is enabled, Power Priority is set to Low, and Power Restore is set to Always Off.
- SNMP Policy—SNMP is disabled, the Port is set to 161, and all SNMP users and traps are deleted.
- Serial Over LAN Policy—Serial over LAN is disabled and the Baud Rate is set to 115200.
- Syslog Policy—Minimum Severity to Report is set to Debug in Local Logging, and the remote logging servers are removed.
- Thermal Policy—FanControlMode is set to Acoustic mode.
- Virtual Media Policy—Virtual Media is enabled, and the Virtual Media mounts are removed.
- LAN Connectivity Policy—vNICs are removed.
- SAN Connectivity Policy—vHBAs are removed.
- IMC Access Policy—In-Band and Out-Of-Band settings are cleared.
- Memory Policy—DIMM blocklisting is disabled.

The right sidebar contains a navigation menu with the following items: Server Profiles, Server Profile Templates, Server Policies, Policy Usage Details, **Clearing and Resetting Server Configurations** (highlighted), and Pools.



https://intersight.com/help/saas/features/servers/configure#clearing_and_resetting_server_configurations

Domain/Chassis Profile Templates



Domain profile & chassis profile templates!

- Very Powerful to scale UCS Domains, particularly for newly released UCS-X Direct !
- For Each Domain Profile Template – Derive up to 20 Domain Profiles
- For Each Chassis Profile Template – Derive up to 80 Chassis Profiles
- For Domain Profile Templates – Consider FI Types, Consider Port Policies, Consider VLAN/VSAN Policies

Domain profile template

The screenshot shows the Cisco Intersight web interface for creating a UCS Domain Profile Template. The top navigation bar includes the Cisco logo, 'Intersight', and 'Infrastructure Service'. A search bar and various status icons (notifications, alerts, etc.) are on the right. The left sidebar contains a navigation menu with categories like 'Overview', 'Operate' (with sub-items: Servers, Chassis, Fabric Interconnects, Networking, HyperFlex Clusters, Storage, Virtualization, Integrated Systems), 'Analyze' (with a 'New' button next to 'Explorer'), 'Configure' (with sub-items: Profiles, Templates), and 'Templates' (which is currently selected). The main content area is titled 'Create UCS Domain Profile Template' and features a step-based navigation pane on the left with five steps: 1. General (selected), 2. VLAN & VSAN Configuration, 3. Ports Configuration, 4. UCS Domain Configuration, and 5. Summary. The 'General' step is expanded, showing a form with the following fields: 'Organization' (a dropdown menu with 'default' selected), 'Name' (a text input field with a placeholder 'Name'), 'Set Tags' (a text input field with a placeholder 'Enter a tag in the key:value format.'), and 'Description' (a text area with a placeholder 'Description' and a character count '0 / 1024'). At the bottom of the form, there are 'Close' and 'Next' buttons.

Intersight Infrastructure Service

Search

Overview

← UCS Domain Profile Templates

Create UCS Domain Profile Template

1 General

2 VLAN & VSAN Configuration

3 Ports Configuration

4 UCS Domain Configuration

5 Summary

General

Add a name, description and tag for the UCS domain profile template.

Organization *

default

Name * ⓘ

Name

Set Tags

Enter a tag in the key:value format.

Description

Description

0 / 1024

Close Next

Chassis profile template

The screenshot shows the Cisco Intersight web interface. The top navigation bar includes the Cisco logo, 'Intersight', and 'Infrastructure Service'. A search bar and various status icons (notifications, alerts) are on the right. The left sidebar contains a navigation menu with categories: Overview, Operate (Servers, Chassis, Fabric Interconnects, Networking, HyperFlex Clusters, Storage, Virtualization, Integrated Systems), Analyze (Explorer, New), Configure (Profiles, Templates), and Templates (selected). The main content area is titled 'Create UCS Chassis Profile Template' and features a three-step wizard: 1. General, 2. Chassis Configuration, and 3. Summary. The 'General' step is active, showing a form to 'Enter a name, description and tag for the chassis profile template.' The form includes: 'Organization' (dropdown menu with 'default' selected), 'Name' (text input with a required asterisk and help icon), 'Set Tags' (text input with placeholder 'Enter a tag in the key:value format.'), and 'Description' (text area with placeholder 'Description' and a character count '0 / 1024'). At the bottom of the form are 'Close' and 'Next' buttons.

Create DPT from a DP or attach DP to DPT

The screenshot shows the Cisco Intersight web interface. The left sidebar contains navigation options: Overview, Operate (selected), Servers, Chassis, Fabric Interconnects, Networking, HyperFlex Clusters, Storage, Virtualization, Integrated Systems, Analyze, Explorer (with a 'New' button), Configure, Profiles (selected), and Templates. The main content area is titled 'Profiles' and has tabs for HyperFlex Cluster Profiles, UCS Chassis Profiles, UCS Domain Profiles (selected), UCS Server Profiles, and Kubernetes Cluster Profiles. A 'Create UCS Domain Profile' button is in the top right. Below the tabs, there's a search bar and an 'Export' button. A table lists 15 UCS Domain Profiles. The 'B26-DomainProfile' is selected, and a context menu is open over it, showing options: Deploy, Unassign, Edit, Clone, Set User Label, Attach to Template (highlighted with a red circle), and Create a Template. The table columns are Name, Status, UCS Domain Template, and Last Update.

Name	Status	UCS Domain Template	Last Update
SJC07-R14-R15	OK	SJC07-R14-FL...	May 6, 2024 7:24 AM
ddd	Not Assigned		Apr 30, 2024 1:41 PM
B26-DomainProfile	OK	B26-6454-M...	Apr 26, 2024 4:53 PM
TME-9508-1	Not Assigned		Apr 26, 2024 4:53 PM
mimaure-domain-1	Not Deployed Changes	int-ucs-1 FI-A	Apr 11, 2024 12:30 PM
int-tme-ucs-3	Failed	int-tme-ucs-...	Mar 26, 2024 12:50 PM
int-tme-ucs-10	OK	int-tme-ucs-1...	Feb 5, 2024 5:55 PM
sgaree-sj2-151-b18-5g	OK	sgaree-sj2-15...	Jan 26, 2024 8:30 PM
sgaree-cs7-112-11-1	Not Assigned		Aug 28, 2023 5:00 PM
DevNet-emulator_CLONE-3	Not Deployed	dcmulator-4...	Jul 26, 2023 2:59 PM

Improved VLAN ID creation process

September

- Import VLAN ID's for faster addition or multiple VLANs
- Import from VLAN ID's from VLAN Policy or CSV file

Note:
Native VLAN now optional
no longer mandatory

CISCO *Live!*

UCS Domain Profiles > Edit UCS Domain Profile (FI-6454-B26) > Create Port

Create Ethernet Network Group

✓ General

2 Policy Details

Policy Details

Manage policy settings and allowed VLANs.

☐ Enable QinQ (802.1Q-in-802.1Q) Tunneling on the vNIC

Add VLANs ▾

Enter Manually

From Policy

From CSV File ⓘ

☐ VLAN ID

CSV File Format

The table column header can be labelled **Allowed VLAN** or **VLAN**. Each cell in the column should contain a list of permitted VLAN identifiers (IDs). These IDs can be specified in two formats:

- **Individual values:** Commas (,) separated individual IDs (e.g., 14,15, 21-64).
- **Range:** A hyphen (-) separates the lowest and highest allowed ID within a consecutive series (e.g., 2-13). Range must be between 1-4093.

Improved VLAN ID creation process

September

- Import VLAN ID's for faster addition or multiple VLANs
- Import from VLAN ID's from VLAN Policy or CSV file

Note:
Native VLAN now optional
no longer mandatory

CISCO *Live!*

Policies > LAN Connectivity > Create

Create Ethernet Network Group

✓ General

2 Policy Details

Policy Details

Manage policy settings and allowed VLANs.

☐ Enable QinQ (802.1Q-in-802.1Q) Tunneling on the vNIC

Add VLANs ▾

Enter Manually

From Policy

From CSV File ⓘ

☐ VLAN ID

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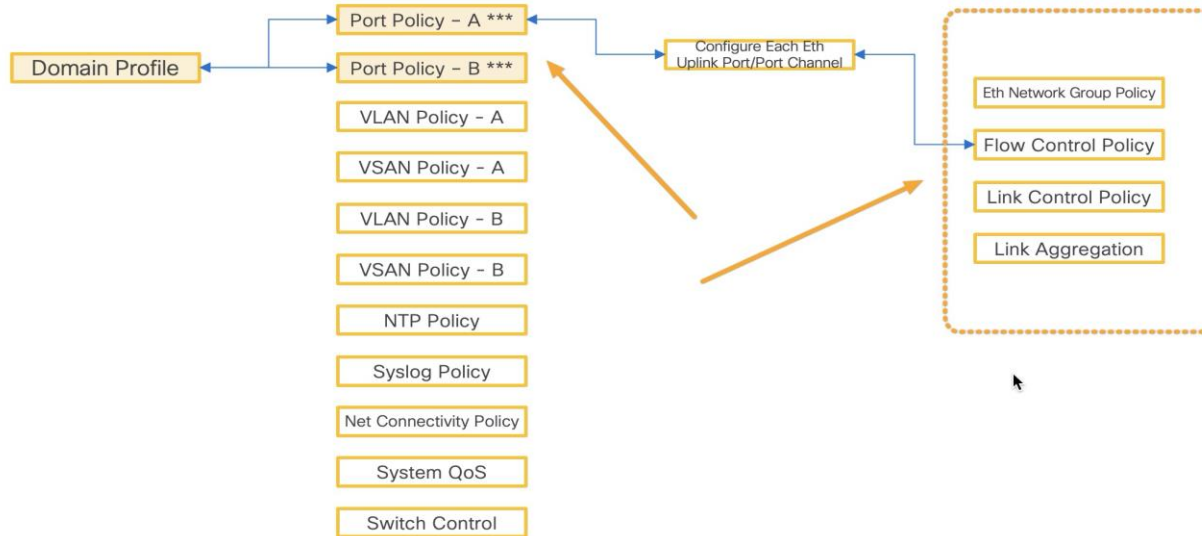
- **Individual values:** Commas (,) separated individual IDs (e.g., 14,15, 21-64).
- **Range:** A hyphen (-) separates the lowest and highest allowed ID within a consecutive series (e.g., 2-13). Range must be between 1-4093.

Enhancement coming in November ...

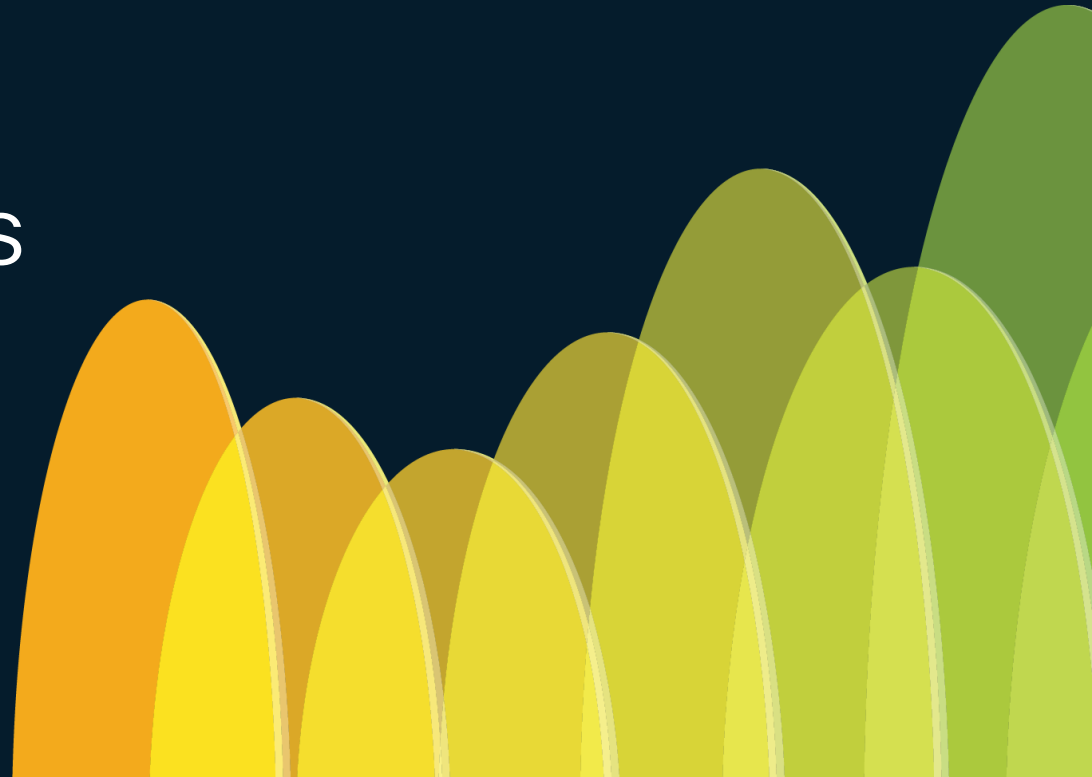
- Initially, Embedded Policies in the Domain Port Policy could not participate in Sharing across Organizations
- This limitation is being enhanced and will be supported in SaaS in early November.
- Can share Port Policy and Embedded Policies

Domain Profile – Port Policy – Embedded Policies

Domain Port Policy



Recent Additions



Additional scale capabilities

July : Firmware CDN to significantly improve download speeds

June : Cisco Provided Policies

- BIOS – streamline the creation of BIOS policies for use specific use cases

The screenshot displays the Cisco BIOS policy creation interface. On the left, the 'Create' form is shown with the 'General' tab selected. The form includes fields for Organization (ORG-A), Name (B26-BIOS), Set Tags (with a placeholder 'Enter a tag in the key:value format.'), and Description (with a character count of 0 / 1024). Below these fields is a link to 'Select Cisco Provided Configuration'. On the right, a modal window titled 'Select Cisco Provided Configuration' is open, showing a list of 33 results. The list is filtered and sorted, with the following items visible:

Name	Description
☐ AnalyticalDatabaseSystems-M6-Intel	BIOS Policy for Analytical Database Sy:
☒ AnalyticalDatabaseSystems-M7-Intel	BIOS Policy for Analytical Database Sy:
☐ AnalyticsDatabaseSystems-M5-Intel	BIOS Policy for Analytics Database Dec:
☐ CPUIntensive-M6-Intel	BIOS Policy for CPU Intensive on Cisco:
☐ CPUIntensive-M7-Intel	BIOS Policy for CPU Intensive on Cisco:
☐ ComputationIntensive-M6-AMD	BIOS Policy for CPU Intensive on Cisco:
☐ DataAnalytics-M6-Intel	BIOS Policy for Data Analytics on Cisco:
☐ DataAnalytics-M7-Intel	BIOS Policy for Data Analytics on Cisco:
☐ EnergyEfficiency-M5-Intel	BIOS Policy for Energy Efficiency on Cl:
☐ EnergyEfficiency-M6-AMD	BIOS Policy for Energy Efficiency on Cl:
☐ EnergyEfficiency-M6-Intel	BIOS Policy for Energy Efficiency on Cl:

Additional scale capabilities

June : Cisco Provided Policies

- Ethernet Adapter policy for high-performance networking on Windows

The screenshot displays the Cisco Policy Manager interface for creating an Ethernet Adapter policy. The main form is titled 'Create Ethernet Adapter' and is divided into two tabs: 'General' (selected) and 'Policy Details'. The 'General' tab contains fields for 'Organization' (set to 'ORG-A'), 'Name' (set to 'C26-Adapter'), 'Set Tags' (with a placeholder 'Enter a tag in the key:value format.'), and 'Description' (with a placeholder 'Description'). Below these fields is a section for 'Cisco Provided Ethernet Adapter Configuration' with a link to 'Select Cisco Provided Configuration'. To the right, a modal window titled 'Select Cisco Provided Configuration' is open, showing a list of configurations. The 'WIN-AzureStack' configuration is selected.

Select Cisco Provided Configuration	
☐	Linux-NVMe-RoCE Recommended adapter settings for NV
☐	Linux-v2 Recommended adapter settings for VIC
☐	MQ Recommended adapter settings for VM
☐	MQ-SMBd Recommended adapter settings for Mu
☐	MQ-SMBd-v2 Recommended adapter settings for VIC
☐	MQ-v2 Recommended adapter settings for VIC
☐	SMBCClient Recommended adapter settings for SM
☐	SMBServer Recommended adapter settings for SM
☐	SRIOV-HPN Recommended adapter settings for SR
☐	Solaris Recommended adapter settings for Sol
☐	VMWare Recommended adapter settings for VM
☐	VMWareNVMeRoCEv2 Recommended adapter settings for NV
☐	VMWarePassThru Recommended adapter settings for VM
☐	VMware-v2 Recommended adapter settings for VIC
☒	WIN-AzureStack Recommended adapter settings for Azi
☐	Win-HPN Recommended adapter settings for Wni

Additional scale capabilities

See Demo's on Cisco Compute YouTube Channel

vSphere/vCenter Plugin

The VMware vSphere/vCenter plugins provided by Cisco Intersight allow VMware vCenter users to manage and monitor UCS servers in Intersight directly from the VMware vCenter interface.

- [🔗 Upgrading Server Firmware Using Hardware Support Manager](#)
- [🔗 Cisco Intersight Plugin for VMware vSphere Client](#)
- [🔗 Cisco Intersight VMware Plugins Best Practices and Troubleshooting](#)

Deploy VMware Clusters

Simplify the deployment of VMware vSphere, VCF Management, and VCF Workload clusters on Cisco UCS servers managed in Cisco Intersight Managed Mode (IMM). These workflows, powered by Cisco Intersight Cloud Orchestrator (ICO), automate key deployment tasks after users input necessary information.

- [🔗 Deploy vSphere Clusters](#)
- [🔗 Deploy VCF Management and Workload Clusters](#)



https://intersight.com/help/saas/resources#vsphere/vcenter_plugin

Intersight Learning Resources



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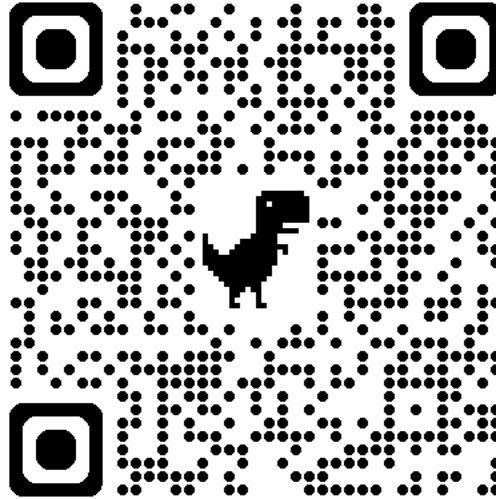
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Cisco Compute – YouTube Channel



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IMM expert series of videos – 48 & counting ...

The screenshot shows the YouTube channel page for Cisco Live! with a focus on the IMM Expert Series. The left sidebar contains navigation links: Home, Shorts, Subscriptions, You, and History. Below these are options to sign in and explore various content categories like Trending, Shopping, Music, Movies & TV, Live, Gaming, News, Sports, Courses, Fashion & Beauty, Podcasts, and Playables.

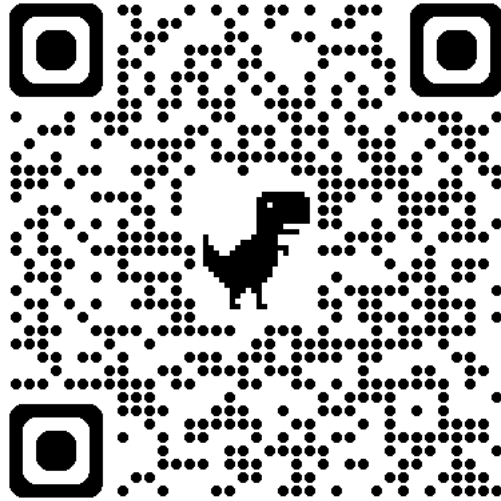
The main content area features a video player for the 'IMM Expert Series' by Cisco Compute. The video description states: 'This Series of videos, over 100 planned, provides key insights into how to configure: * Domain Policies & Domain Profiles * Server Policies and Server Profiles * Chassis Policies and Chassis Profiles and numerous Special Use-Case Configurations such as: * Disjoint Layer-2 * SAN Boot'. It also mentions that the series is designed to help novices and experts alike by providing dedicated videos for each policy and corresponding domain and server profiles.

Below the video player, a list of 8 videos from the series is displayed, each with a thumbnail, title, and view count:

- 1. Intersight IMM Expert Series - Introduction & Welcome (Cisco Compute • 913 views • 11 months ago)
- 2. Intersight IMM Expert Series - Management Modes and Order of Ops Overview (Cisco Compute • 936 views • 11 months ago)
- 3. Intersight IMM Expert Series - Flow Control Domain Policy (Cisco Compute • 462 views • 11 months ago)
- 4. Intersight IMM Expert Series - Link Control Domain Policy (Cisco Compute • 280 views • 11 months ago)
- 5. Intersight IMM Expert Series - Link Aggregation Domain Policy (Cisco Compute • 384 views • 11 months ago)
- 6. Intersight IMM Expert Series - Multicast Domain Policy (Cisco Compute • 245 views • 11 months ago)
- 7. Intersight IMM Expert Series - Network Connectivity Domain Policy (Cisco Compute • 260 views • 11 months ago)
- 8. Intersight IMM Expert Series - NTP Domain Policy (Cisco Compute • 167 views • 11 months ago)

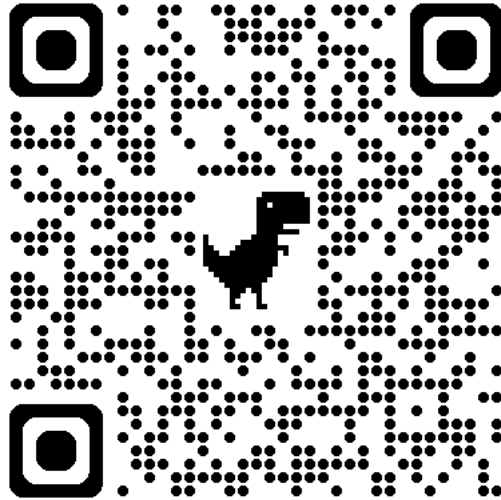
The video player interface includes a search bar at the top, a play button, and a shuffle button. The video title 'IMM Expert Series' is prominently displayed above the video player.

IMM expert series – Cisco Compute



https://www.youtube.com/playlist?list=PLIIKAL_0d4EyjLS_chD-BecRc3NrT8O6X

BRKCOM-2005 – Demonstrations!



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