

Add and Remove VLANs for UCS in Intersight Managed Mode

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Introduction

This document describes the correct way to add and remove a VLAN in Intersight Managed Mode (IMM).

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- UCS and IMM knowledge
- Networking Concepts
- Disjoint Layer 2 Fundamentals

Ensure that you have these requirements before you attempt this configuration:

- VLAN ID

Components Used

The information in this document is based on these software and hardware versions:

- UCS-FI-6454, Firmware 4.3(4b)
- UCSX-215C-M8, Firmware 5.3(0.240016)

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

Background Information

To add or remove a VLAN, you need to modify the Server and Domain profiles configuration, the policies involved are:

- VLAN Policy
- LAN Connectivity Policy
- Ethernet Network Group Policy
- Multicast Policy

Configure

Add VLANs

Step 1. Add VLANs to Domain Profile

- Navigate to **Profiles > UCS Domain Profiles** and select the **Domain Profile** assigned to the Fabric Interconnects where you need to add VLANs.

The screenshot shows the Cisco Intersight web interface. The left sidebar contains navigation menus for Dashboards, Operate (Servers, Chassis, Fabric Interconnects, HyperFlex Clusters, Integrated Systems), Configure (Profiles, Templates, Policies, Pools), and Analyze. The main content area is titled 'Profiles' and has tabs for HyperFlex Cluster Profiles, UCS Chassis Profiles, UCS Domain Profiles (selected), and UCS Server Profiles. A 'Create UCS Domain Profile' button is in the top right. Below the tabs, there's a search bar and a table of UCS Domain Profiles. The table has columns for Name, Status, UCS Domain Template, UCS Domain (with sub-columns for Fabric Interconnects), and Last Update. Three profiles are listed: 'LabTest' (OK), 'IMM-6454-SAAS' (OK), and 'IMM-6536-SAAS' (Not Assigned). An 'Export' button is in the top right of the table area. At the bottom right, there's a 'Rows per page' dropdown set to 10 and a page indicator showing 1 of 1 results.


Name	Status	UCS Domain Template	UCS Domain		Last Update	
			Fabric Inte...	Fabric Inte...		
LabTest	OK		IMM-SAAS...	IMM-SAAS...	May 28, 2025 5:43 PM	...
IMM-6454-SAAS	OK		IMM-SAAS...	IMM-SAAS...	May 23, 2025 1:33 PM	...
IMM-6536-SAAS	Not Assigned				May 13, 2025 1:48 PM	...

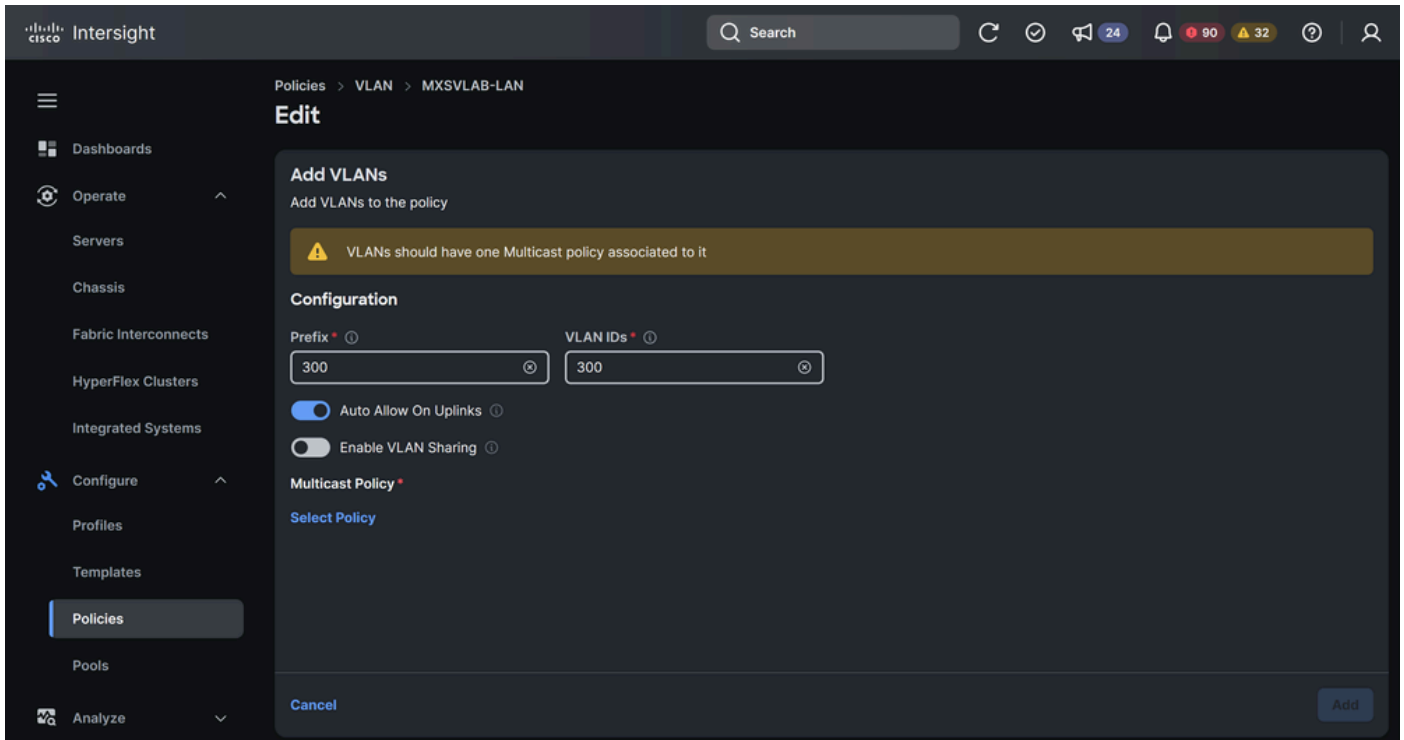
Select UCS Domain Profiles and then the Domain Profile assigned to the Fabric Interconnects

- Navigate to **VLAN & VSAN Configuration**.
- Select **Edit VLAN policy**.

Select Edit VLAN Policy


- **Add** the required VLANs. In prefix, you can enter a prefix that identify the VLAN. This example uses VLAN **200** and VLAN **300**.
- **Select** a Multicast Policy.

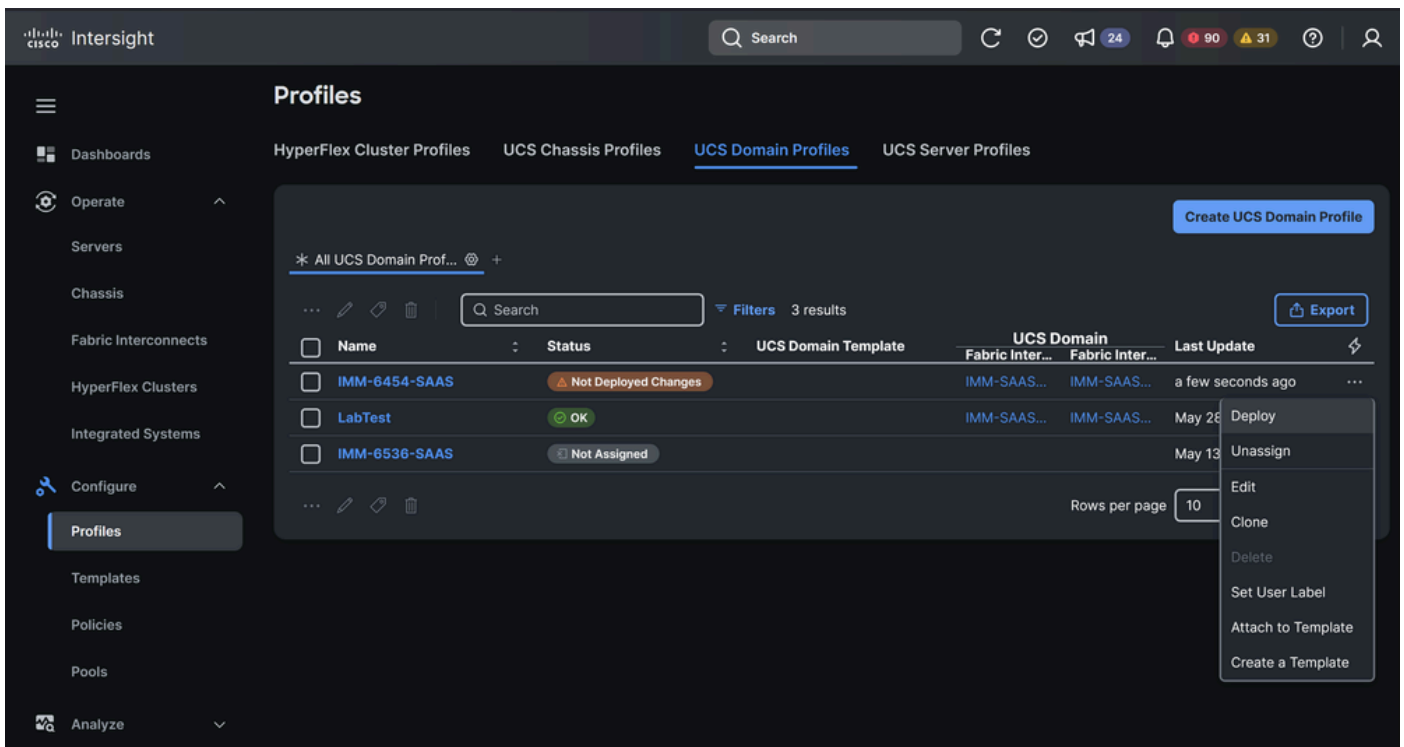
 **Note:** If you have configured a Ethernet Network Group Policy in the uplinks (Disjoint Layer 2), you have to add the VLANs there as well and disable the option Auto Allow On Uplinks. If not, you can leave it enabled. For more information about Disjoint Layer 2, please refer to this [document](#) .



Add VLANs

- **Save** the changes.
- Navigate to **Profiles > UCS Domain Profiles** and redeploy the **Domain Profile**.

 **Note:** The deployment of the Domain Profile after a VLAN is added or removed does not disrupt traffic on the pre-existing VLANs.



Redeploy Domain Profile

Step 2. Add VLANs to Server Profile

- Navigate to **Profiles > UCS Server Profiles** and select the **Service Profile** assigned to your server where you are going to add the VLANs.

The screenshot shows the Cisco Intersight web interface. The left sidebar contains navigation menus for 'Operate' (Servers, Chassis, Fabric Interconnects, HyperFlex Clusters, Integrated Systems) and 'Configure' (Profiles, Templates, Policies, Pools). The main area is titled 'Profiles' and has tabs for 'HyperFlex Cluster Profiles', 'UCS Chassis Profiles', 'UCS Domain Profiles', and 'UCS Server Profiles'. The 'UCS Server Profiles' tab is active, showing a list of 13 profiles. Above the list are filters for Status (Not Assigned: 9, OK: 4), Inconsistency Reason (No data available), Template Sync Status (No data available), and Target Platform (Standalone: 3, FI-Attached: 10). The table lists profiles with columns for Name, Status, Target Platform, UCS Server Template, Server, Last Update, and Template.

Name	Status	Target Platform	UCS Server Template	Server	Last Update	Template
IMM-HTZ	OK	UCS Server (FI-Attached)	IMM-SAAS-MXSVLAB-6454-1-5	2 minutes ago	-	...
RHEL_Baremetal	Not Assigned	UCS Server (FI-Attached)	44 minutes ago	-
iscsiboot_isua...	OK	UCS Server (FI-Attached)	IMM-SAAS-MXSVLAB-6454-1-3	an hour ago	-	...
JP_SECURE_T...	Not Assigned	UCS Server (Standalone)	an hour ago	-
JP_TEST_6991...	Not Assigned	UCS Server (FI-Attached)	Jun 10, 2025 11...	-
Nvidia-Test-Di...	OK	UCS Server (FI-Attached)	IMM-SAAS-MXSVLAB-6536-1-6	Jun 10, 2025 8...	-	...

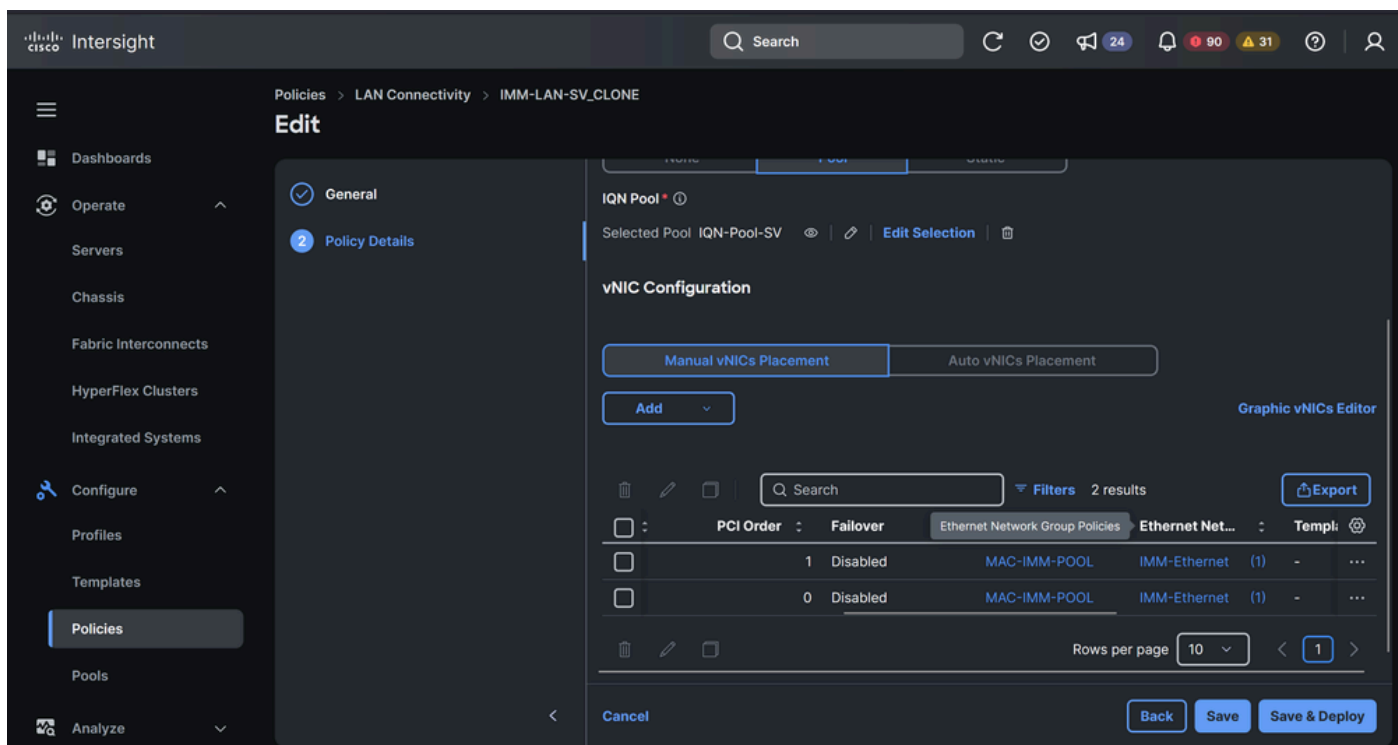
Select Server Profile

- **Select** edit in the LAN Connectivity Policy.
- In the LAN Connectivity Policy, select the Ethernet Network Group Policy from the vNICs.

The screenshot shows the configuration page for the 'IMM-HTZ' UCS Server Profile. The left sidebar is the same as the previous image. The main area has tabs for 'General', 'Server', 'Inventory', and 'Connectivity'. The 'General' tab is active, showing details like Status (OK), Name (IMM-HTZ), User Label (-), Target Platform (UCS Server (FI-Attached)), Template Name, Template Sync Status (-), Last Update (a few seconds ago), and Description. The right pane shows the 'Configuration' section with tabs for 'General', 'Identifiers', 'vNICs / vHBAs', and 'Errors/Warnings (0)'. The 'vNICs / vHBAs' tab is active, showing a table of vNIC configurations. The 'LAN Connectivity' row is highlighted, showing the 'IMM-LAN-SV_CLONE' policy with an 'Edit' button.

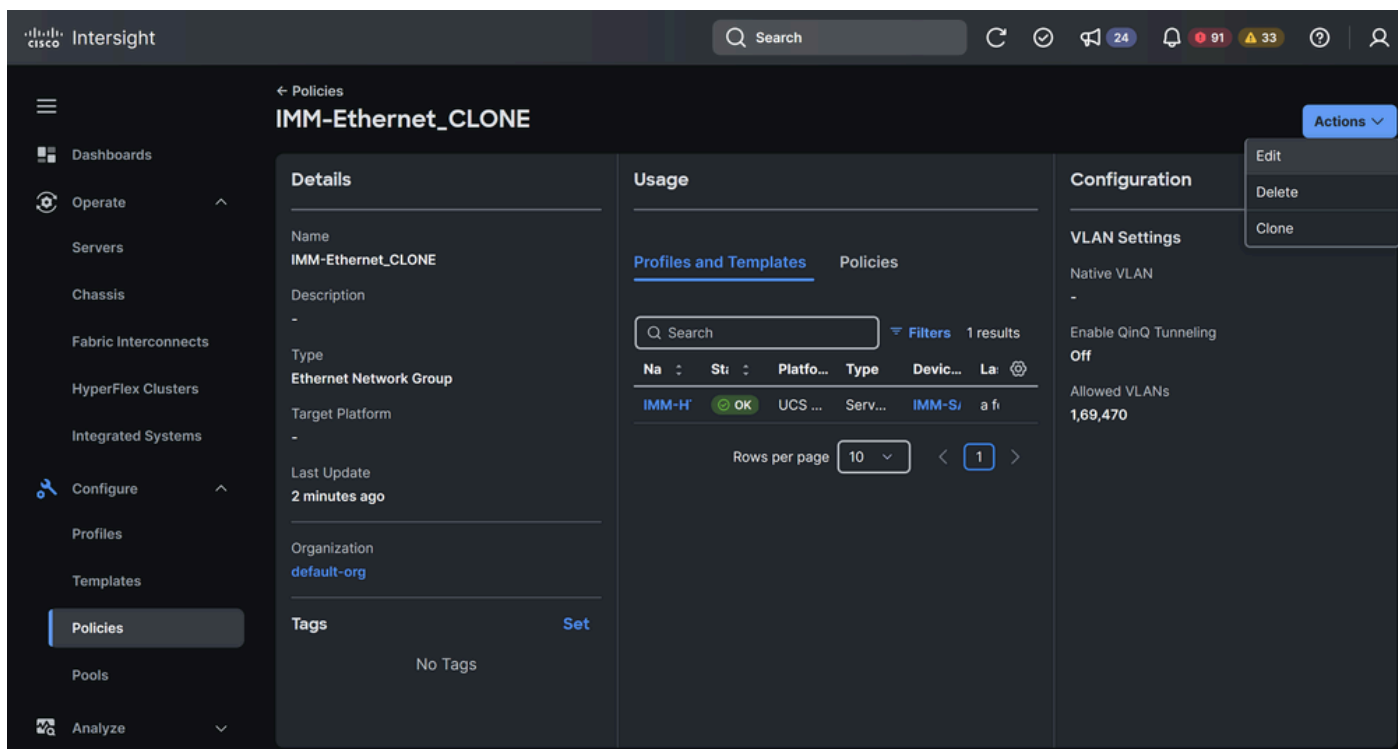
Boot Order	IMC Access Policy	LAN Connectivity	Virtual KVM
MXSVLAB_BootLocal	IMC-IMM-OOB	IMM-LAN-SV_CLONE	KVM_IMM

Edit LAN Connectivity Policy



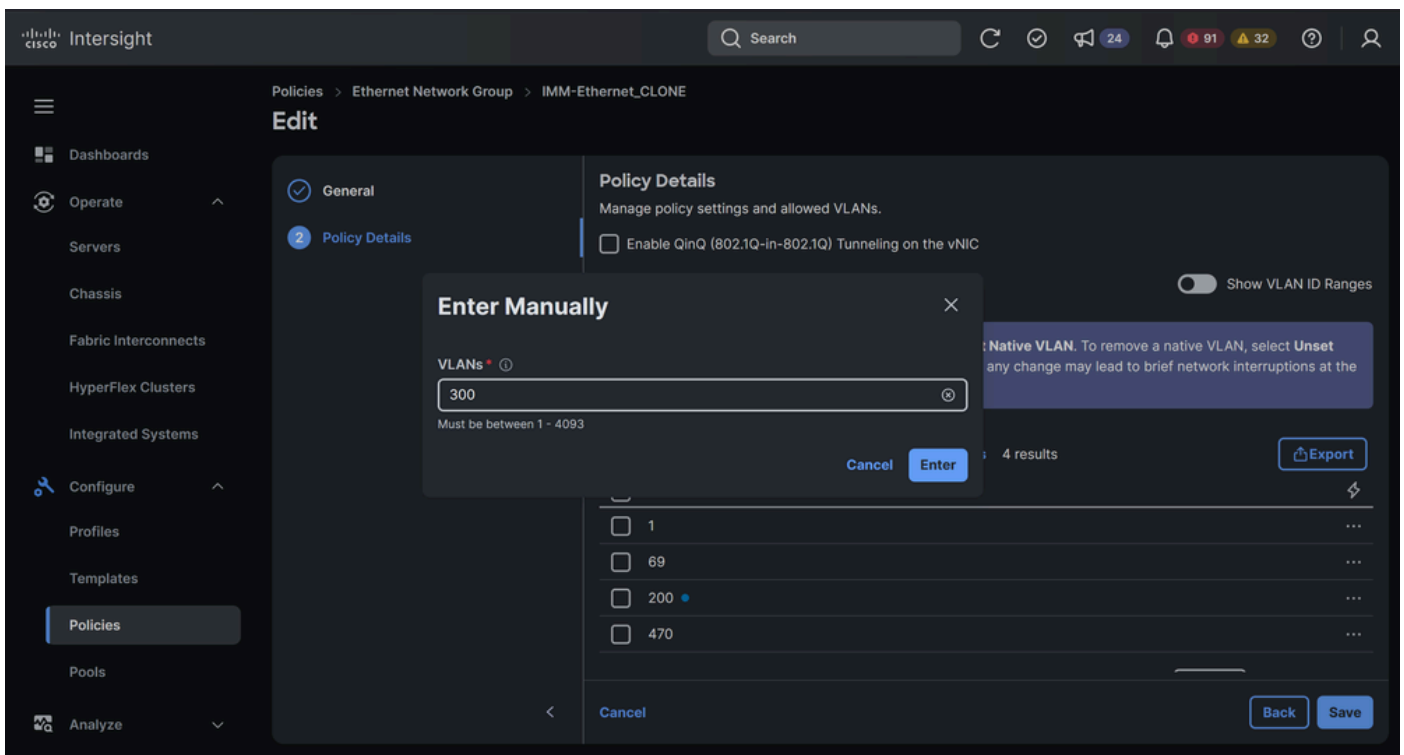
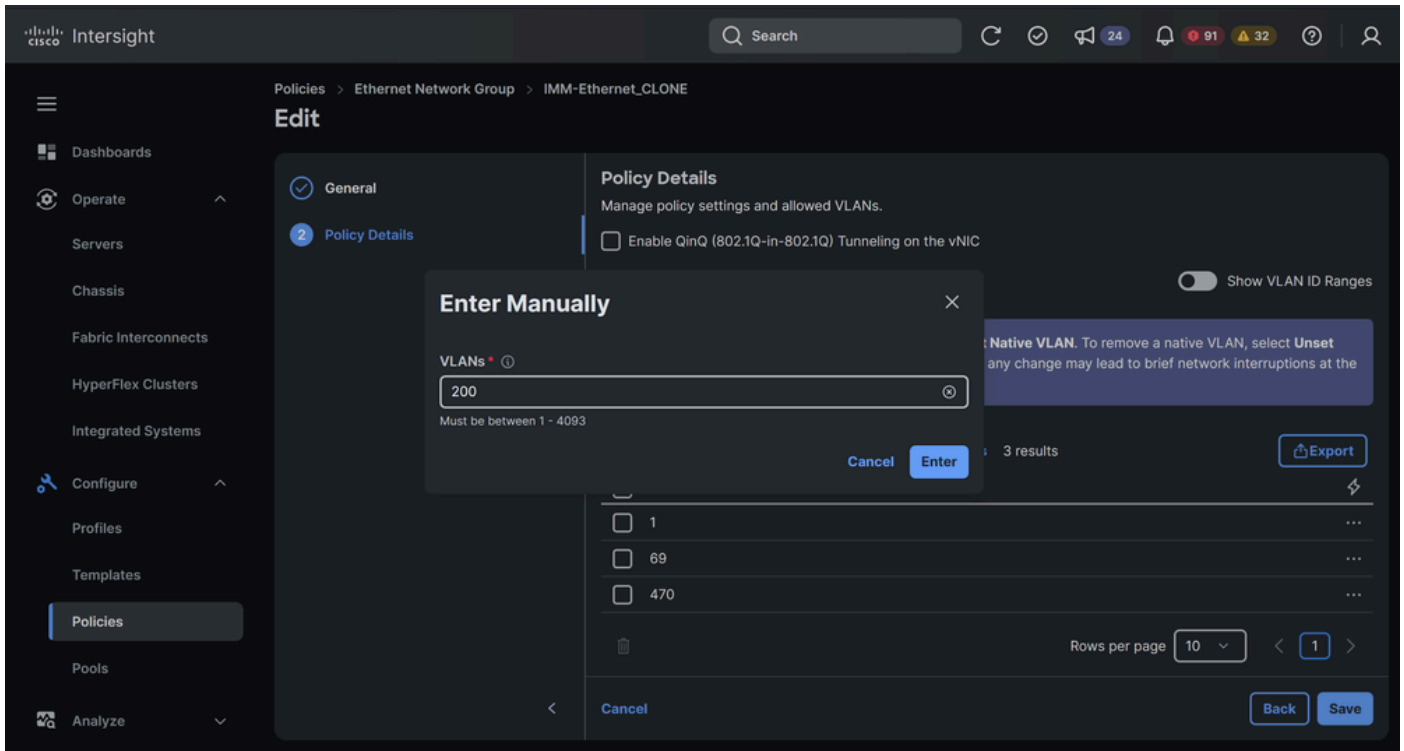
Select Ethernet Network Group Policy

- **Select** actions and then edit.



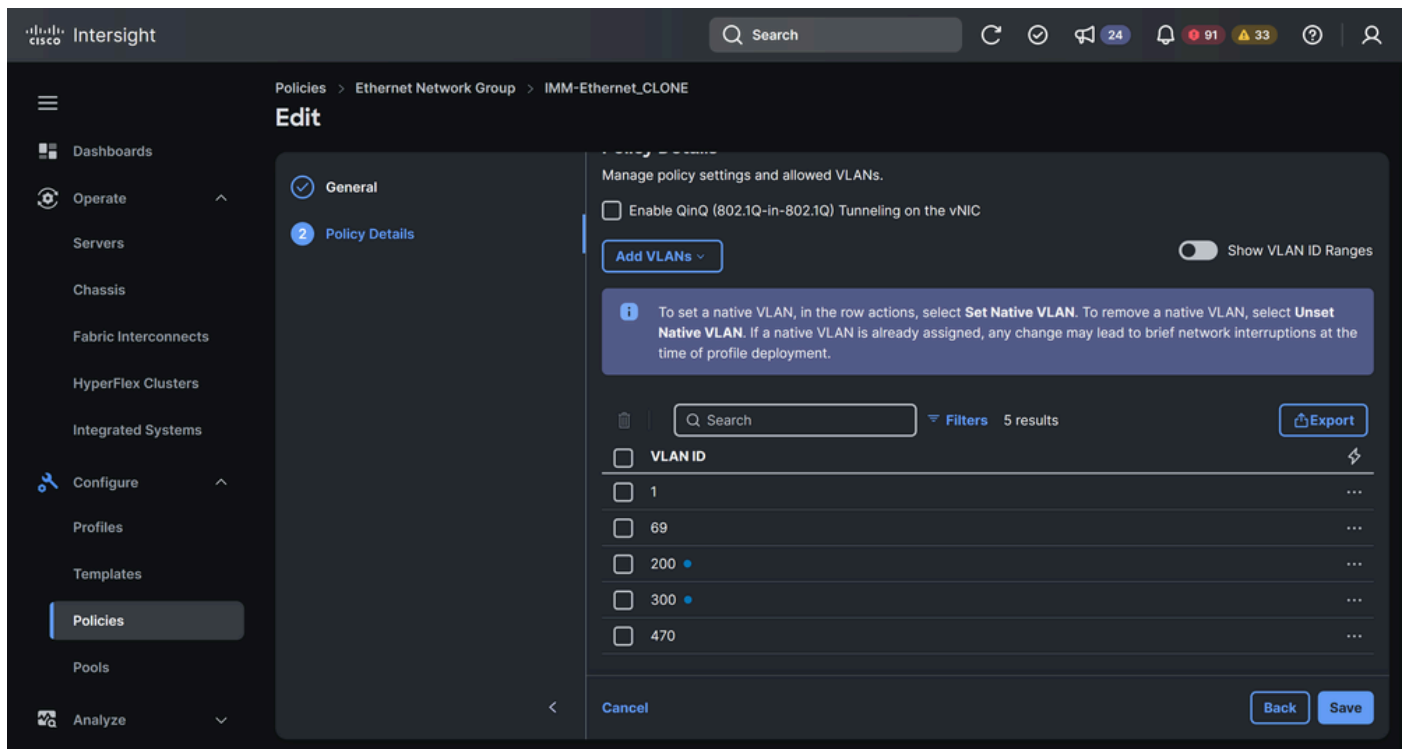
Edit Ethernet Network Group Policy

- **Add** the required VLANs. This example uses VLAN **200** and VLAN **300**.



Add VLANs

- When the VLANs have been added, **save** the changes.



Save Changes

Caution: The deployment and activation of a service profile causes a reboot and disruption.

- Navigate to **Profiles> UCS Server Profiles** and redeploy the **Server Profile**.

Remove VLANs

Step 1. Remove VLANs from Server Profile

- Navigate to **Profiles> UCS Server Profiles** and select the **Server Profile** assigned to your server.
- Select **Edit** in the LAN Connectivity Policy.
- In the LAN Connectivity Policy, select the **Ethernet Network Group Policy** from the vNICs.
- Select actions and then edit.
- Remove the required VLANs. This example uses VLAN **200** and VLAN **300**.

The screenshot shows the Cisco Intersight interface. The left sidebar contains a navigation menu with categories: Dashboards, Operate, Servers, Chassis, Fabric Interconnects, HyperFlex Clusters, Integrated Systems, Configure, Profiles, Templates, Policies (highlighted), Pools, and Analyze. The main content area is titled 'Edit' and shows the 'Policy Details' tab. At the top, there's a breadcrumb: Policies > Ethernet Network Group > IMM-Ethernet_CLONE. Below this, there's a section for 'Add VLANs' with a search bar and a 'Filters' button showing '5 results'. A table lists VLAN IDs: 1, 69, 200, 300, and 470. The rows for 200 and 300 are checked. Below the table, there's a 'Delete' button and a 'Cancel' button. At the bottom right, there are 'Back' and 'Save' buttons. A notification banner at the top of the table area states: 'To set a native VLAN, in the row actions, select Set Native VLAN. To remove a native VLAN, select Unset Native VLAN. If a native VLAN is already assigned, any change may lead to brief network interruptions at the time of profile deployment.'

Remove VLANs

- When the VLANs have been removed, **save** the changes.



Caution: The deployment and activation of a service profile cause a reboot and disruption.

- Navigate to **Profiles > UCS Server Profiles** and redeploy the **Server Profile**.

Step 2. Remove VLANs from Domain Profile

- Navigate to **Profiles > UCS Domain Profiles** and select the **Domain Profile** assigned to the Fabric Interconnects where you need to remove VLANs.
- Navigate to **VLAN & VSAN Configuration**.
- Select **edit VLAN policy**.
- Remove the required VLANs. This example uses VLAN **200** and VLAN **300**.



Note: If you have configured a Ethernet Network Group Policy in the uplinks (Disjoint Layer 2), you have to remove the VLANs there as well. For more information about Disjoint Layer 2, please refer to this [document](#).

Intersight Policies > VLAN > MXSVLAB-LAN

Edit

VLANs

Add VLANs

☐ Show VLAN ID Ranges

Filters 8 results

<input type="checkbox"/>	Name	VLAN...	Shari...	Prima...	Multicast P...	At	
<input type="checkbox"/>	default	1	None			Ye	...
<input type="checkbox"/>	vMotion_69	69	None		multicast-l...	Ye	...
<input type="checkbox"/>	inband_70	70	None		multicast-l...	Ye	...
<input type="checkbox"/>	ricamar_vlan_72	72	None		multicast-l...	Ye	...
<input checked="" type="checkbox"/>	200_200	200	None		multicast-l...	Ye	...
<input checked="" type="checkbox"/>	300_300	300	None		multicast-l...	Ye	...
<input type="checkbox"/>	mgmt_470	470	None		multicast-l...	Ye	...
<input type="checkbox"/>	oracle_480	480	None		multicast-l...	Ye	...

Cancel **Back** **Save**

Remove VLANs

- When the VLANs have been removed, **save** the changes.
- Navigate to **Profiles > UCS Domain Profiles** and redeploy the **Domain Profile**.



Note: The deployment of the Domain Profile after a VLAN is added or removed does not disrupt traffic on the pre-existing VLANs.

Intersight Profiles

HyperFlex Cluster Profiles UCS Chassis Profiles **UCS Domain Profiles** UCS Server Profiles

Create UCS Domain Profile

* All UCS Domain Prof... **Filters** 3 results **Export**

<input type="checkbox"/>	Name	Status	UCS Domain Template	UCS Domain Fabric Inter...	UCS Domain Fabric Inter...	Last Update	
<input type="checkbox"/>	IMM-6454-SAAS	Not Deployed Changes		IMM-SAAS...	IMM-SAAS...	3 minutes ago	...
<input type="checkbox"/>	LabTest	OK		IMM-SAAS...	IMM-SAAS...	May 28	...
<input type="checkbox"/>	IMM-6536-SAAS	Not Assigned				May 13	...

Rows per page 10

- Deploy
- Unassign
- Edit
- Clone
- Delete
- Set User Label
- Attach to Template
- Create a Template

Redeploy Domain Profile

Verify

To Verify that the VLAN changes were applied , open a ssh session to the Fabric Interconnect and verify the configuration on the uplink interfaces. Example:

```
FI-6454-A# connect nxos
FI-6454-A(nx-os)# show running-config int eth1/15
interface Ethernet1/15
description Uplink PC Member
pinning border
switchport mode trunk
switchport trunk allowed vlan 1,69-70,72,470,480
udld disable
channel-group 1 mode active
no shutdown
```