

# Campus A-01 Wired Lab Guide

## Provisioning a Campus Fabric



This Lab Guide:

<https://github.com/arista-rockies/Workshops/tree/main/Campus>

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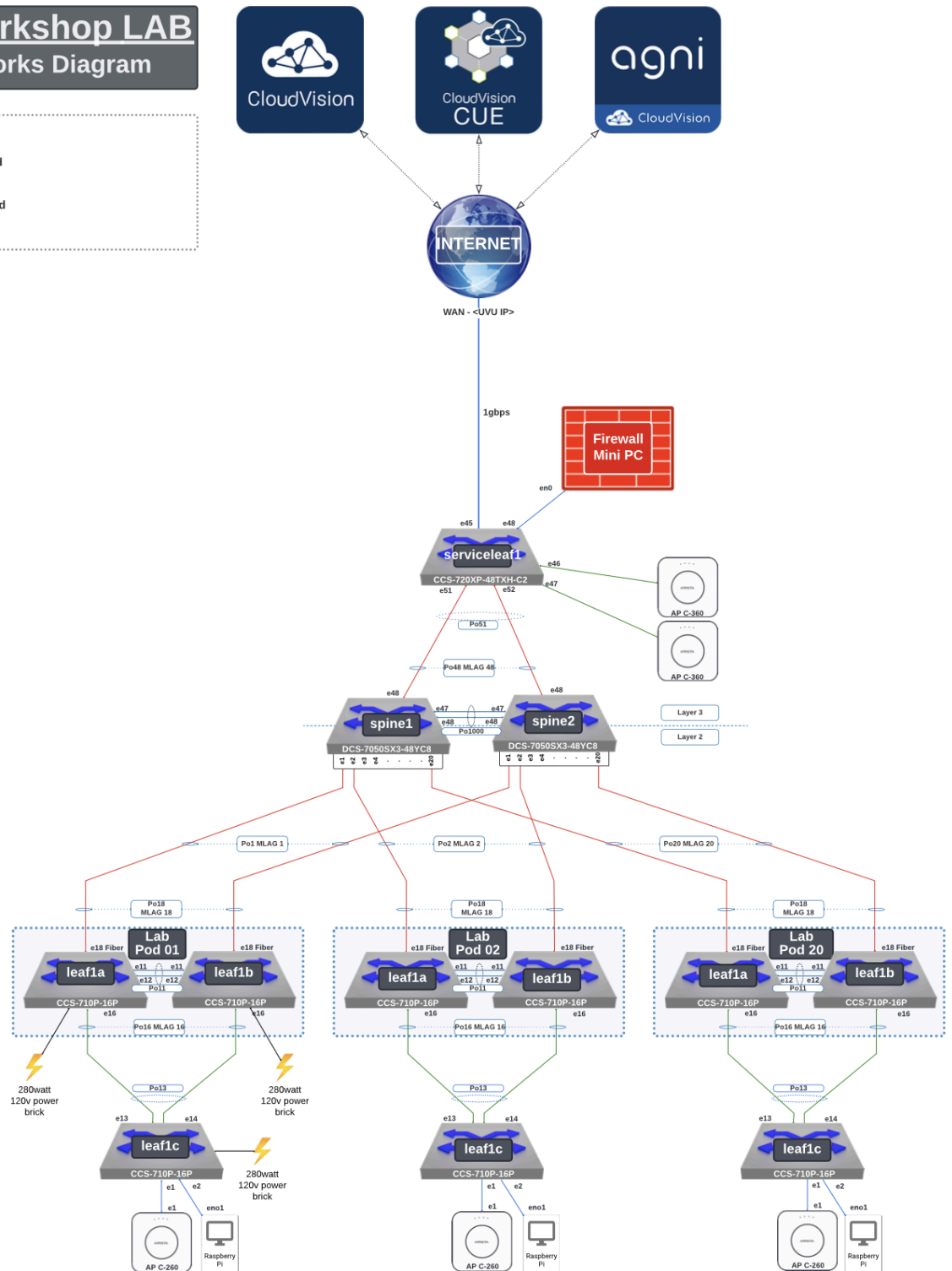
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# Full Lab Topology

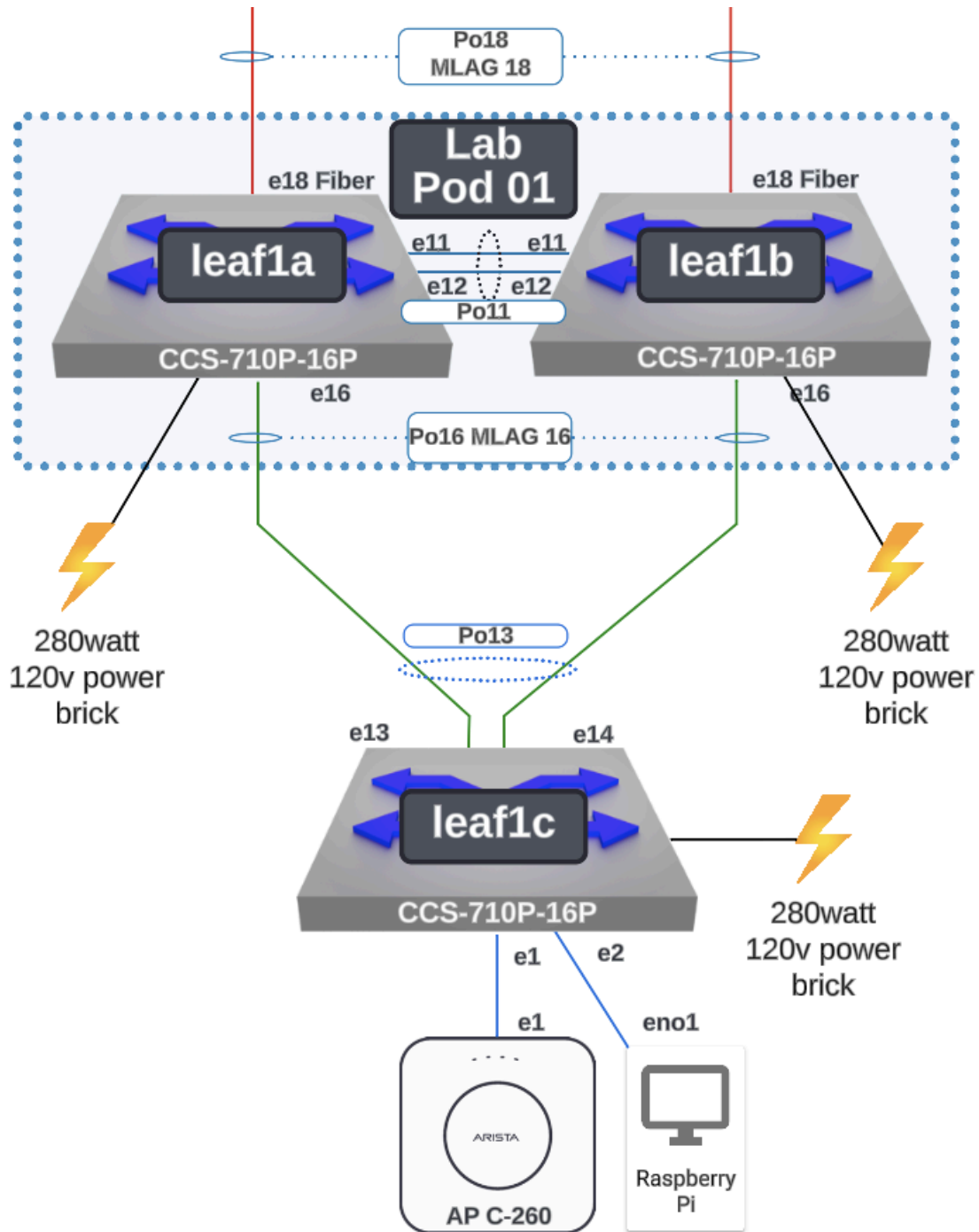
## Arista Workshop LAB Lab Networks Diagram

### Key:

- 10G link speed
- 5G link speed
- 2.5G link speed
- 1G link speed



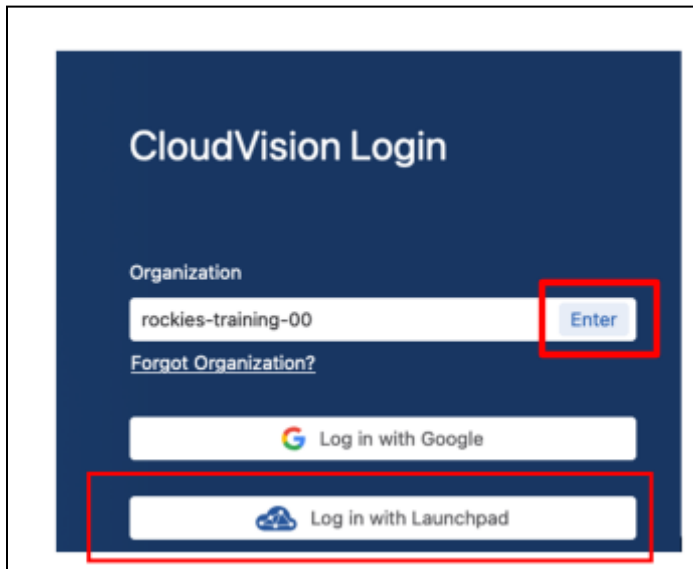
# POD Topology



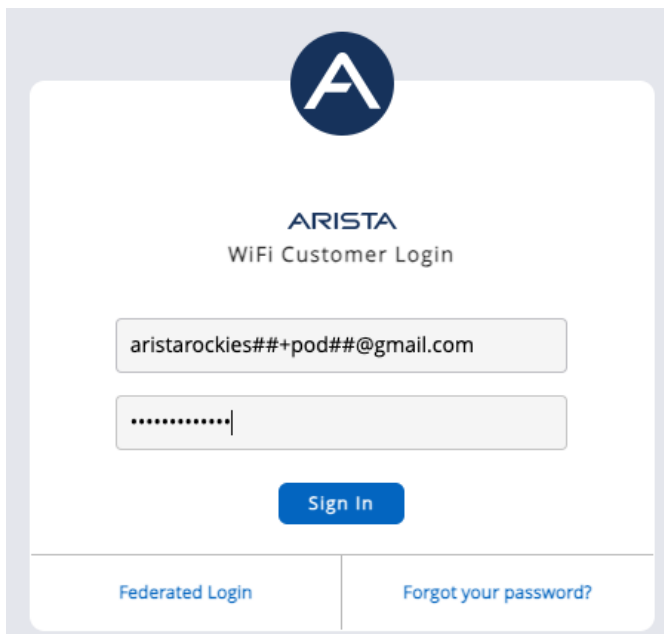
# 1. Accessing CloudVision as a Service

In your Google Chrome browser, enter the following URL: <https://www.arista.io/> to access CloudVision as a Service (CVaaS).

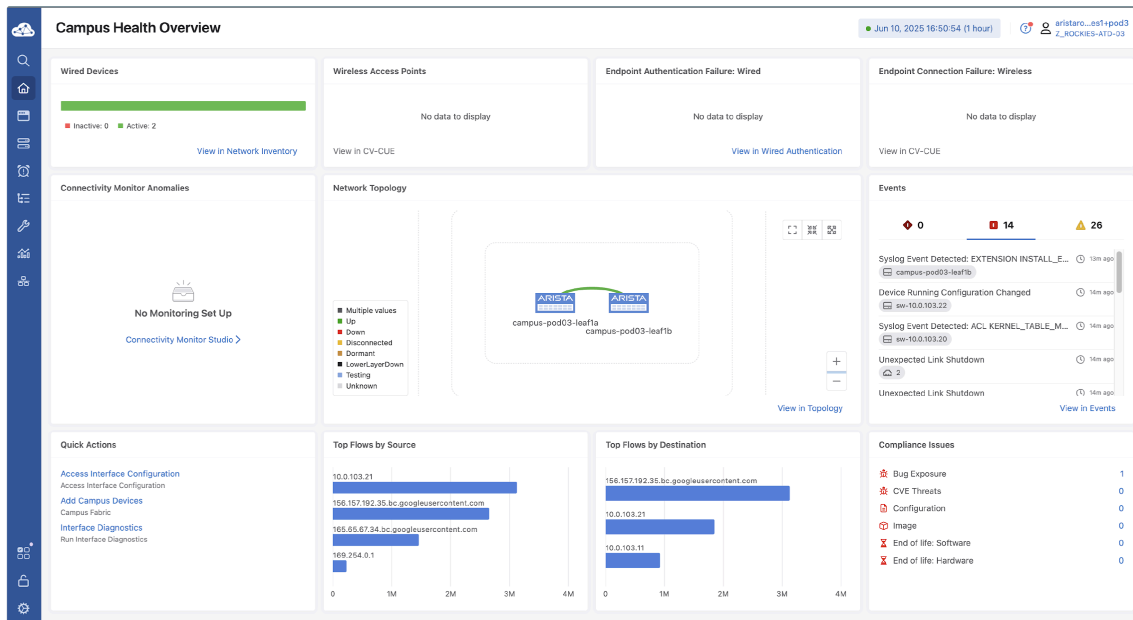
1. in the “**Organization**” box enter the Organization name “**rockies-training-##**” where **##** is a 2 digit character between 01-20 that was assigned to your lab/Pod, then click “**Enter**”.



2. Click the Log in with Launchpad button and provide your assigned lab/Pod email address and password:



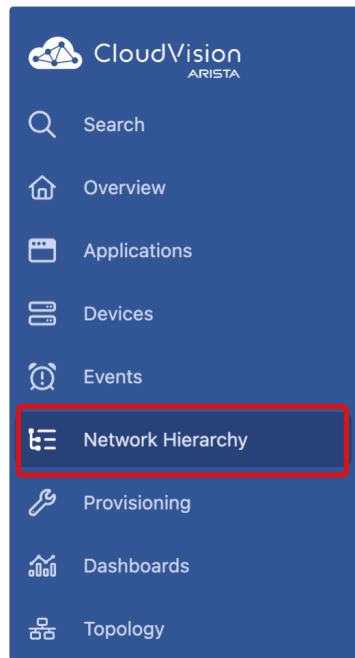
### 3. You will now be logged into CloudVision



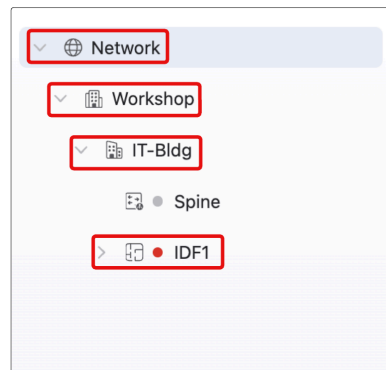
## 2. Onboarding a new device into CVaaS

In this lab you will be configuring the switches through CloudVision. Today you will be adding a Member Leaf Switch to an existing Campus Fabric/POD using Cloud Vision's guided workflow.

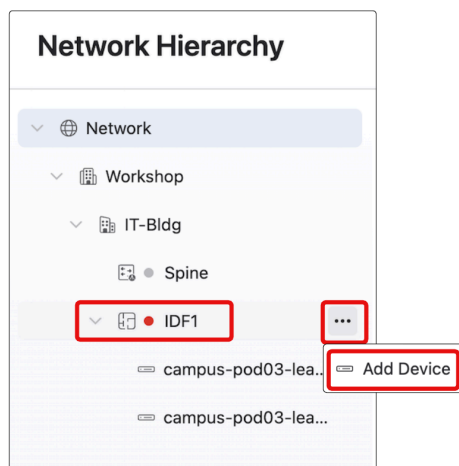
### 1. Login to CloudVision, then click on the **Network Hierarchy** menu option.



2. Navigate through the Network Hierarchy Tree to **Network > Workshop > IT-Bldg > IDF1**.



3. Hover your mouse over **IDF1** and select the **3 dots** that appear. Select **Add Device** to begin the device provisioning guided workflow.



4. The **Deployment Details** should be pre-populated. Verify the value in each section (provided below),
- Campus: Workshop**
  - Campus-Pod: IT-Bldg**
  - Access-Pod: IDF1**
  - Select the box for the device under **Select Available Devices** with a hostname of **sw-10.0.103.21** and then select **Continue**

### Add Campus Devices

1 Deployment Details

2 Configuration

3 Management

4 Review

#### Workspace

Select an existing workspace or leave blank to create a new one

Select a workspace

#### Specify Deployment Details

Choose the locations of these devices in the network

Campus

Workshop

Campus-Pod

IT-Bldg

Access-Pod

IDF1

#### Select Available Devices

Select devices that you want to add to the campus

1 Item 1 Selected

Device ID	Hostname	MAC	Model
WTW22210161	sw-10.0.103.21	2c:dd:e9:fd:97:c9	710P-16P

sw-10.0.103.21

Workshop

Cancel

Continue



5. Locate the new device being added under **Role Assignment**. Update the hostname from sw-[IP\_ADDRESS] to **campus-pod[POD#]-leaf1c**. Select **Continue**.

Add Campus Devices

Deployment Details

Configuration

Management

Review

Software Image Assignment

+ Add Software

Select image, streaming agent, and extension for the selected devices

Image

Select

Streaming Agent

Select

Extensions

Select

Hostname and Role Assignment

Assign a default hostname or custom hostnames and device roles

Hostname Prefix

e.g campus-pod08-leaf1

Role Assignment

3 Items

Device ID	Hostname	MAC	Model	Role
WTW22190410	campus-pod08-leaf1c	2c:dd:e9:fd:63:04	710P-16P	Member-Leaf
WTW22200314	campus-pod08-leaf1a	2c:dd:e9:fd:83:f8	710P-16P	Leaf
WTW22210330	campus-pod08-leaf1b	2c:dd:e9:fd:a4:54	710P-16P	Leaf

Member Leaf MLAG Pairs

List MLAG Pairs for member leaf devices

1 Item

+ Add MLAG Pair

MLAG Primary	MLAG Secondary
--------------	----------------

Back

Cancel

Continue

6. Select **Continue**
- (Although not part of the lab today, this section of the workflow allows us to set the member leaf we are currently provisioning to also provide Zero Touch Provisioning workflow to switches that are downstream from this new Member Leaf.)*

Add Campus Devices

Deployment Details

Configuration

Management

Review

Out-of-band management deployments are not currently supported in this workflow

Inband Management Details

The inband management subnet and VLAN are set per campus pod.

Inband Management Subnet

10.0.103.0/24

Inband Management VLAN

103

Inband ZTP Interfaces

If the devices below provide connectivity for any other devices, specify which interfaces should serve as downlinks to those other devices.

1 Item

Device ID	Hostname	Role	Interfaces
WTW22210161	campus-pod03-leaf1c	Member-Leaf	Select

Back

Cancel

Continue

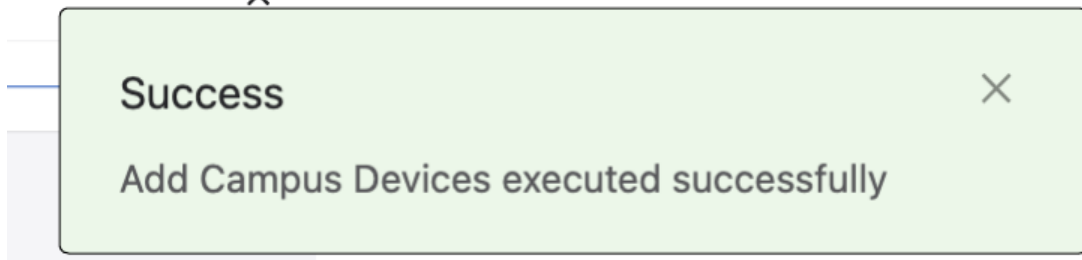
- The inputs provided in the guided workflow will be used to generate inputs within CloudVision Studios. We will select **Build Workspace** and those inputs will generate the configuration to provision our new device. (This may take up to 1 minute)

The screenshot shows the 'Add Campus Devices' workflow in CloudVision Studios, currently at the 'Review' step (indicated by a blue circle with the number 4). The workflow progress bar at the top shows 'Deployment Details', 'Configuration', 'Management', and 'Review'. The left panel contains a 'Deployment Summary' with the following details:

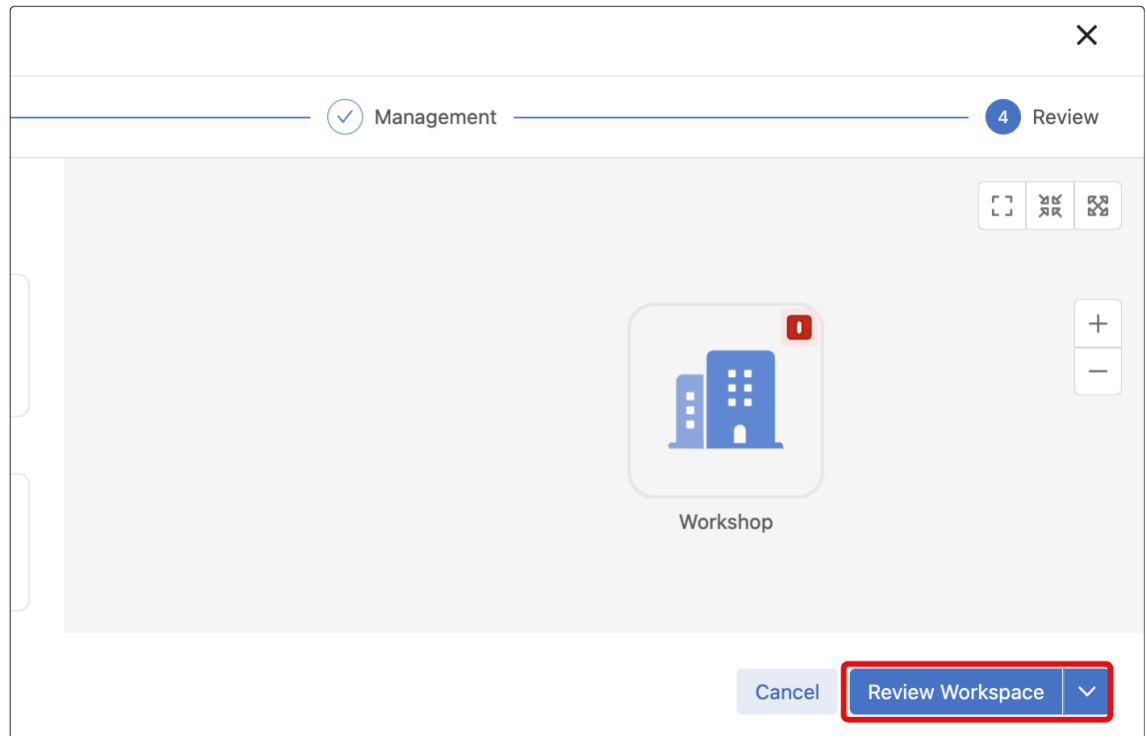
- Expand Access Pod IDF1**
  - Workshop: IT-Bldg, IDF1
  - Inband Management Subnet: 10.0.103.0/24
  - Inband Management VLAN: 103
- Deploying 1 Device**
  - campus-pod03-leaf1c (WTW22210161) Member-Leaf
  - Inband ZTP Interfaces: 0 interfaces

The right panel shows a visual representation of the 'Workshop' with a building icon and a yellow warning triangle. At the bottom right, there are three buttons: 'Back', 'Cancel', and 'Build Workspace' (which is highlighted with a red box and a dropdown arrow).

- After the Workspace has completed building you will get a small window pop up state **Success**. Select the **X** and continue to the next step

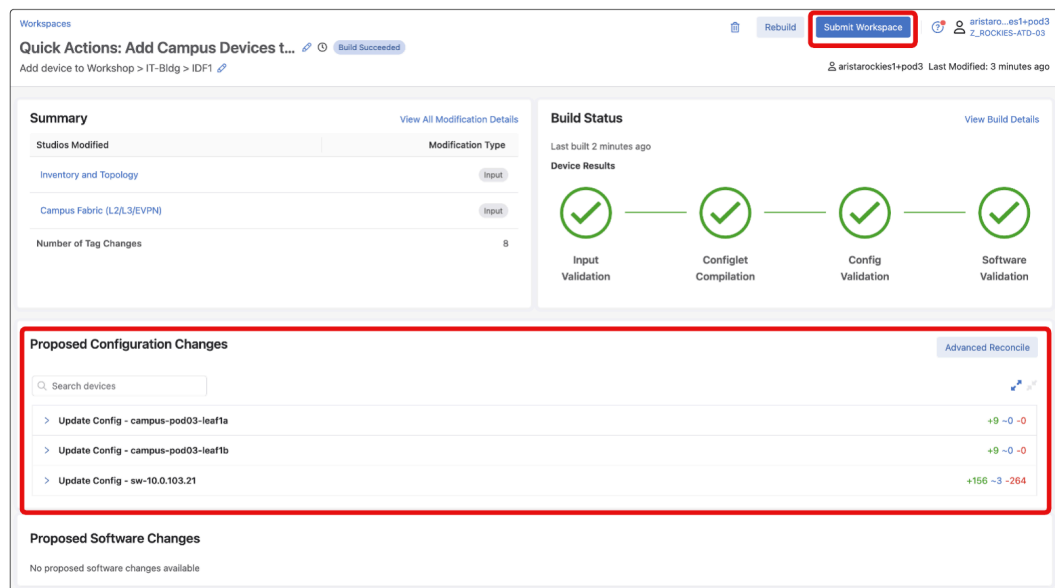


9. Now that CloudVision has built out the workspace, lets select **Review Workspace** to review the proposed configuration.

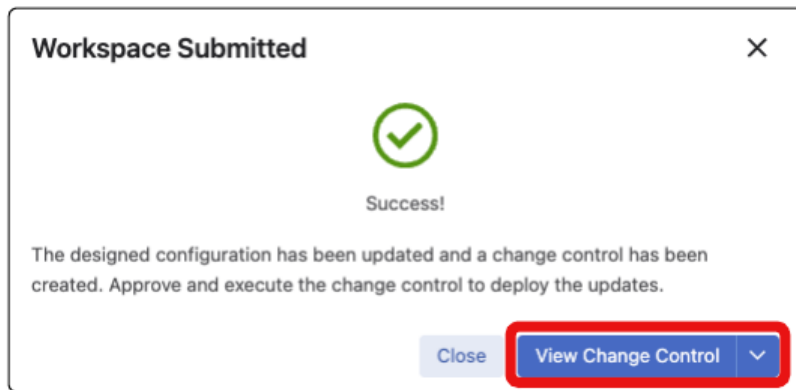


10. This will bring you into the Workspace that was generated from the guided workflow.. You should see 3 devices (leaf1a, leaf1b, and your newly added switch) shown under **Proposed Configuration**.

- a. Take some time to review the proposed configuration.
  - i. **leaf1a/b** - Check for the creation of a new port-channel and interface configuration to leaf1c
  - ii. **leaf1c** - Complete provisioned switch configuration
- b. After taking some time to review the workspace select **Submit Workspace**.

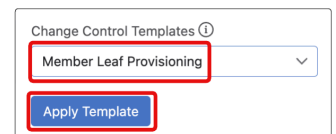
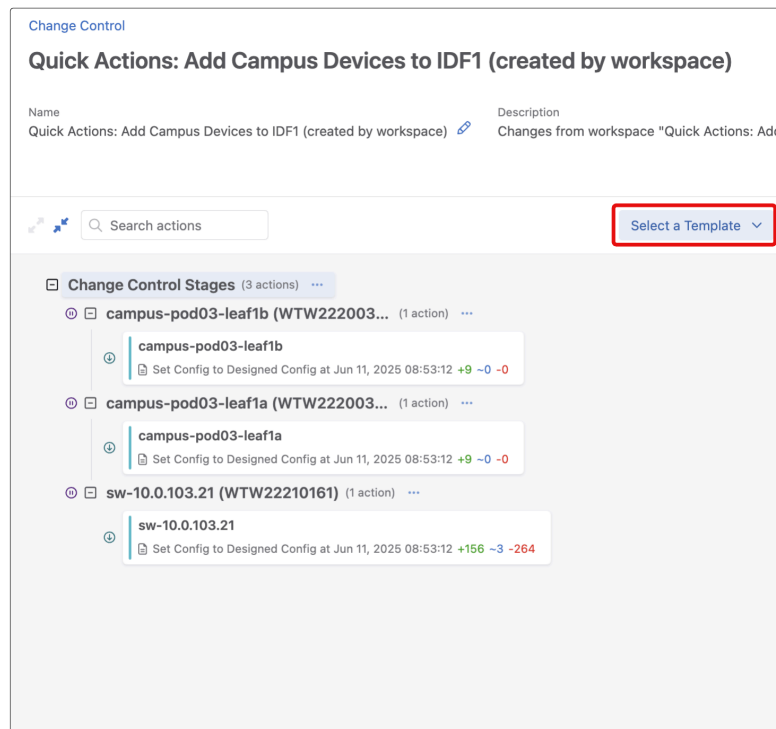


11. After the Workspace is submitted select **View Change Control**.



12. This will bring us to the Change Control that was created by the workspace submission. In this step we will be utilizing Change Control Templates . (A change control template provides the ability to create a configurable structure for repeatable change control operations)

- Select a Template**
- From the available dropdown select **Member Leaf Provisioning**. (This template will add a 30 second delay before pushing configuration to leaf1a and leaf1b to ensure leaf1c gets the proposed configuration first)
- Select **Apply Template**.







13. The template selected will update the **Change Control Stages** into 2 sections. The first section will begin the configuration on the new Member Leaf immediately. The second section will delay pushing the configuration changes for 30 seconds, then configure the Leaf Switches.

The screenshot displays a configuration interface for 'Change Control Stages' (5 actions). Two sections are highlighted with red boxes:

- Provision New Member Leaf** (1 action):
  - sw-10.0.103.21:Set Configuration** (1 action):
    - sw-10.0.103.21**: Set Config to Designed Config at Jun 11, 2025 16:45:34 +156 ~3 -264
- Wait 30 Seconds Then Apply Configu...** (4 actions):
  - campus-pod03-leaf1a:Sleep Action** (2 actions):
    - Custom Action 'Sleep'
    - campus-pod03-leaf1a**: Set Config to Designed Config at Jun 11, 2025 16:45:34 +9 ~0 -0
  - campus-pod03-leaf1b:Sleep Action** (2 actions):
    - Custom Action 'Sleep'
    - campus-pod03-leaf1b**: Set Config to Designed Config at Jun 11, 2025 16:45:34 +9 ~0 -0


## 14. Select **Review and Approve**

[Review and Approve](#) aristarockies1+pod3  
Z\_ROCKIES-ATD-03

to IDF1" 

Schedule Start  
Select date





[Recent Activity](#)

 **Change Control Summary**

[Diff Summary](#)

Root Execute

[Parallel](#) [Series](#)

Last Edit Approval In Progress Completed

aristarockies1+pod3 3m ago

**Action Summary**

[+ Add Action](#)

3

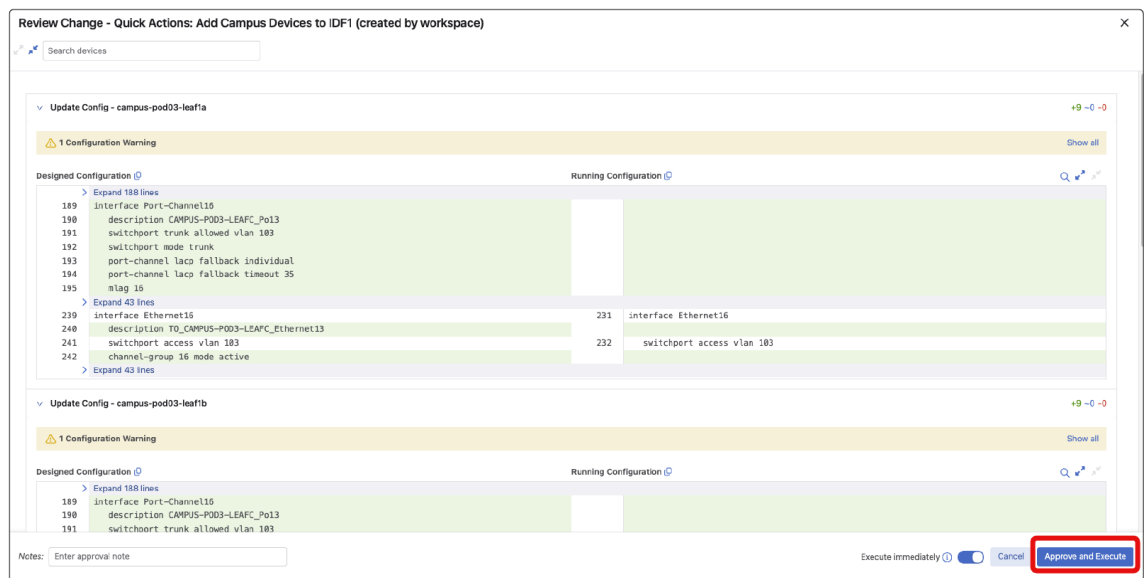
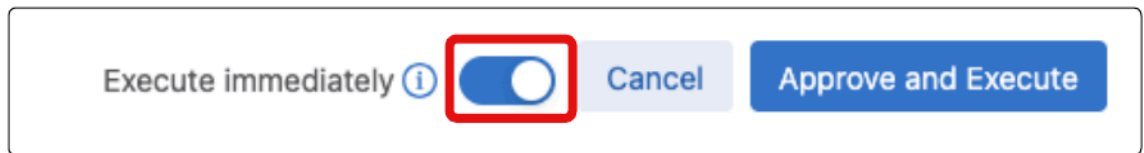
Config •

2

Misc •

15. Up until this point we have not made any changes to the actual running configuration of the devices. You can take some time to once again review the proposed configuration changes then select **Approve and Execute**.

If Approve and Execute is not present select the Slider next to Execute Immediately.



- Change Control Summary**

Root Execute

Parallel Series

Last Edit Approved Started Completed

aristarockies1-pod3 11m ago aristarockies1-pod3 aristarockies1-pod3 11s ago

**Action Summary**

0% 0%

Config Misc

**Device Status (3)** Configuration Changes (3)

  - campus-pod03-leaf1a
  - campus-pod03-leaf1b
  - sw-10.0.103.21

Active Active Active

Search actions

**Change Control Stages** (5 actions)

**Provision New Member Leaf** (1 action)

**sw-10.103.21: Set Configuration** (1 action)

**sw-10.103.21**  
 Set Config to Designated Config at Jun 11, 2025 16:45:34 +156 -3 -264

**Wait 30 Seconds Then Apply Configur...** (4 actions) ✓

**campus-pod03-leafta:Sleep Action** (2 actions) ✓

**Custom Action "Sleep"** ✓  
**campus-pod03-leafta**  
 Set Config to Designated Config at Jun 11, 2025 16:45:34 +9 -0 -0 ✓

**campus-pod03-leaftb:Sleep Action** (2 actions) ✓

**Custom Action "Sleep"** ✓  
**campus-pod03-leaftb**  
 Set Config to Designated Config at Jun 11, 2025 16:45:34 +9 -0 -0 ✓

**Change Control Logs**

 Search logs  
 Showing 25 logs [Download All Logs](#)

<pre>ruiEid_Okx4bvWBWBCd9rJKScJp_chlid_ruleId_Okx4bvWBWBCd9rJKScJp_chlid_campus-pod03-leaftb (WTW2200349)_a_bundelId_lUqet_wt_SSDySbaguCh3u_campus-pod03-leaftb (WTW2200349)_a_bundelId_lUqet_wt_SSDySbaguCh3u_g5_DoSBAKHQlGafTR_fedrfPLCWVDDInHfChg</pre>	10 seconds ago
<hr/>	
<b>Action Sleep completed successfully</b> Jun 12, 2025 15:42:798 GMT'-6	
<pre>ruiEid_Okx4bvWBWBCd9rJKScJp_chlid_ruleId_Okx4bvWBWBCd9rJKScJp_chlid_campus-pod03-leafta (WTW2200305)_a_bundelId_lUqet_wt_SSDySbaguCh3u_campus-pod03-leafta (WTW2200305)_a_bundelId_lUqet_wt_SSDySbaguCh3u_g5_DoSBAKHQlGafTR_fedrfPLCWVDDInHfChg</pre>	18 seconds ago
<hr/>	
<b>Action Sleep completed successfully</b> Jun 12, 2025 15:51:42.793 GMT'-6	
<pre>ruiEid_Okx4bvWBWBCd9rJKScJp_chlid_ruleId_Okx4bvWBWBCd9rJKScJp_chlid_campus-pod03-leafta (WTW2200305)_a_bundelId_lUqet_wt_SSDySbaguCh3u_campus-pod03-leafta (WTW2200305)_a_bundelId_lUqet_wt_SSDySbaguCh3u_ruleId_Okx4bvWBWBCd9rJKScJp_chlid_campus-pod03-leafta (WTW2200305)_a_bundelId_lUqet_wt_SSDySbaguCh3u_campus-pod03-leafta (WTW2200305)_a_setConfig</pre>	35 seconds ago
<hr/>	
<b>Action Set Config on device WTW2200305 completed successfully</b> Jun 12, 2025 15:51:26.060 GMT'-6	
<pre>ruiEid_Okx4bvWBWBCd9rJKScJp_chlid_ruleId_Okx4bvWBWBCd9rJKScJp_chlid_campus-pod03-leaftb (WTW2200349)_a_bundelId_lUqet_wt_SSDySbaguCh3u_campus-pod03-leaftb (WTW2200349)_a_bundelId_lUqet_wt_SSDySbaguCh3u_ruleId_Okx4bvWBWBCd9rJKScJp_chlid_campus-pod03-leaftb (WTW2200349)_a_bundelId_lUqet_wt_SSDySbaguCh3u_campus-pod03-leaftb (WTW2200349)_a_setConfig</pre>	35 seconds ago
<hr/>	
<b>Action Set Config on device WTW2200349 completed successfully</b> Jun 12, 2025 15:51:26.044 GMT'-6	

- # LAB GUIDE COMPLETE