

# Campus A-02 Wired Lab Guide

## Access Interface Configuration



This Lab Guide:

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

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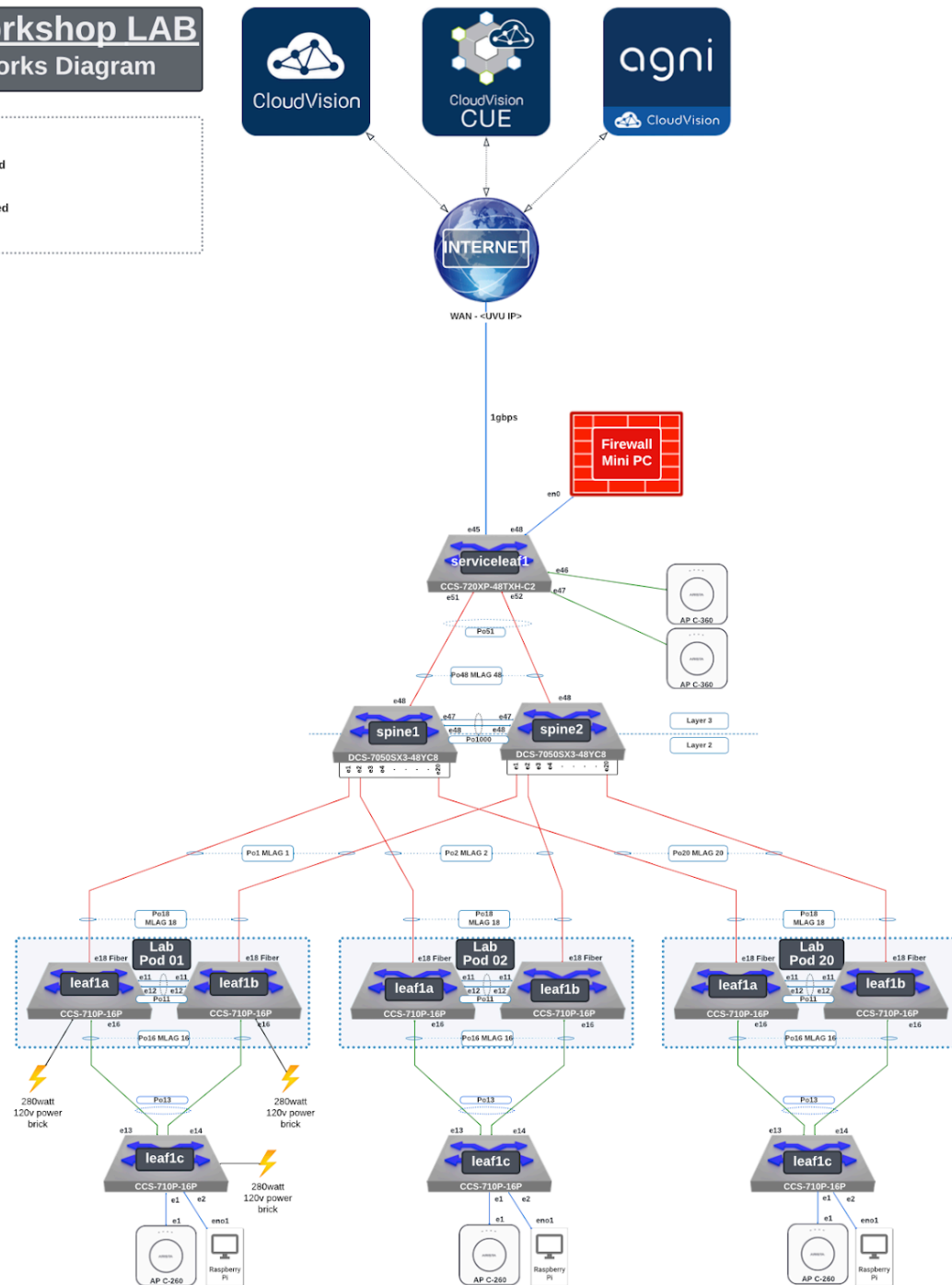
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# Full Lab Topology

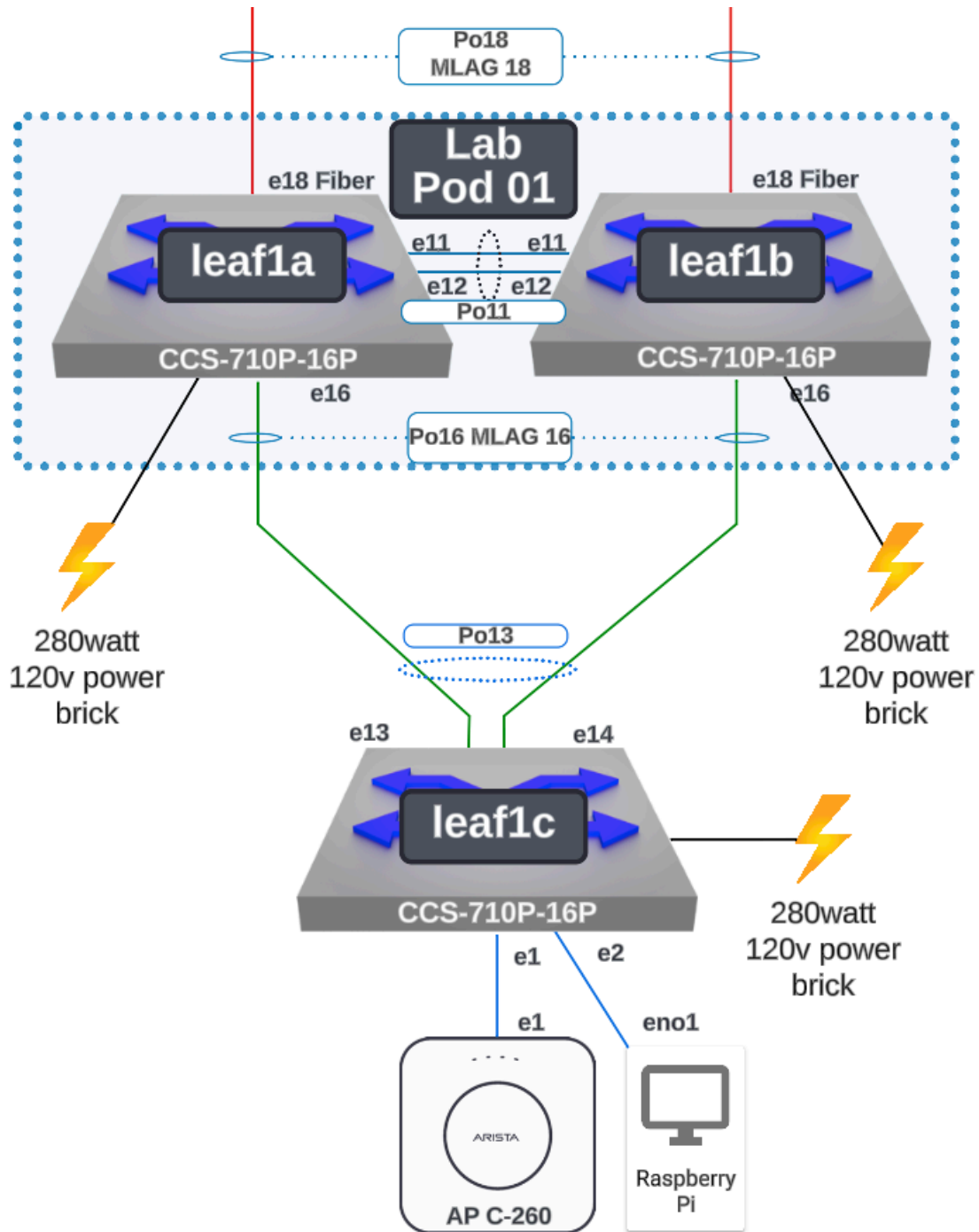
## Arista Workshop LAB Lab Networks Diagram

### Key:

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



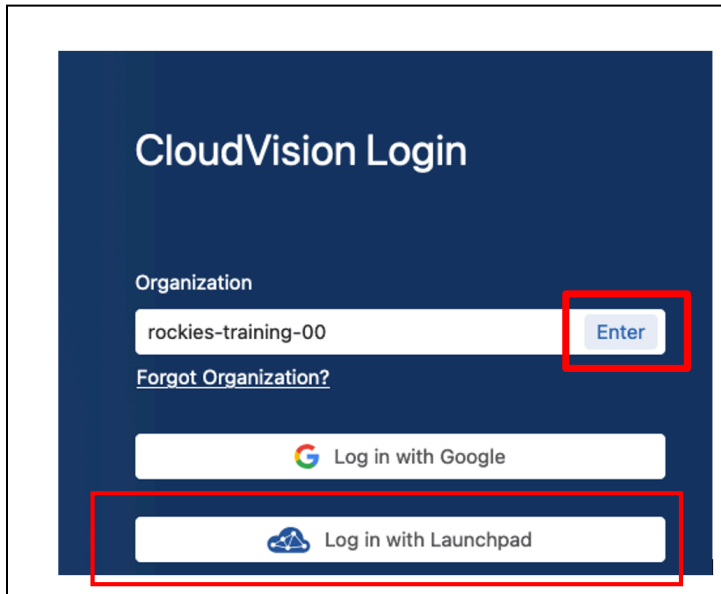
# POD Topology



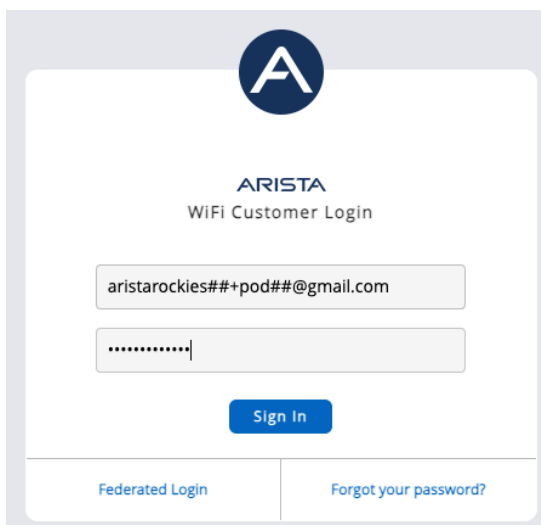
# 1. Accessing CloudVision as a Service

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

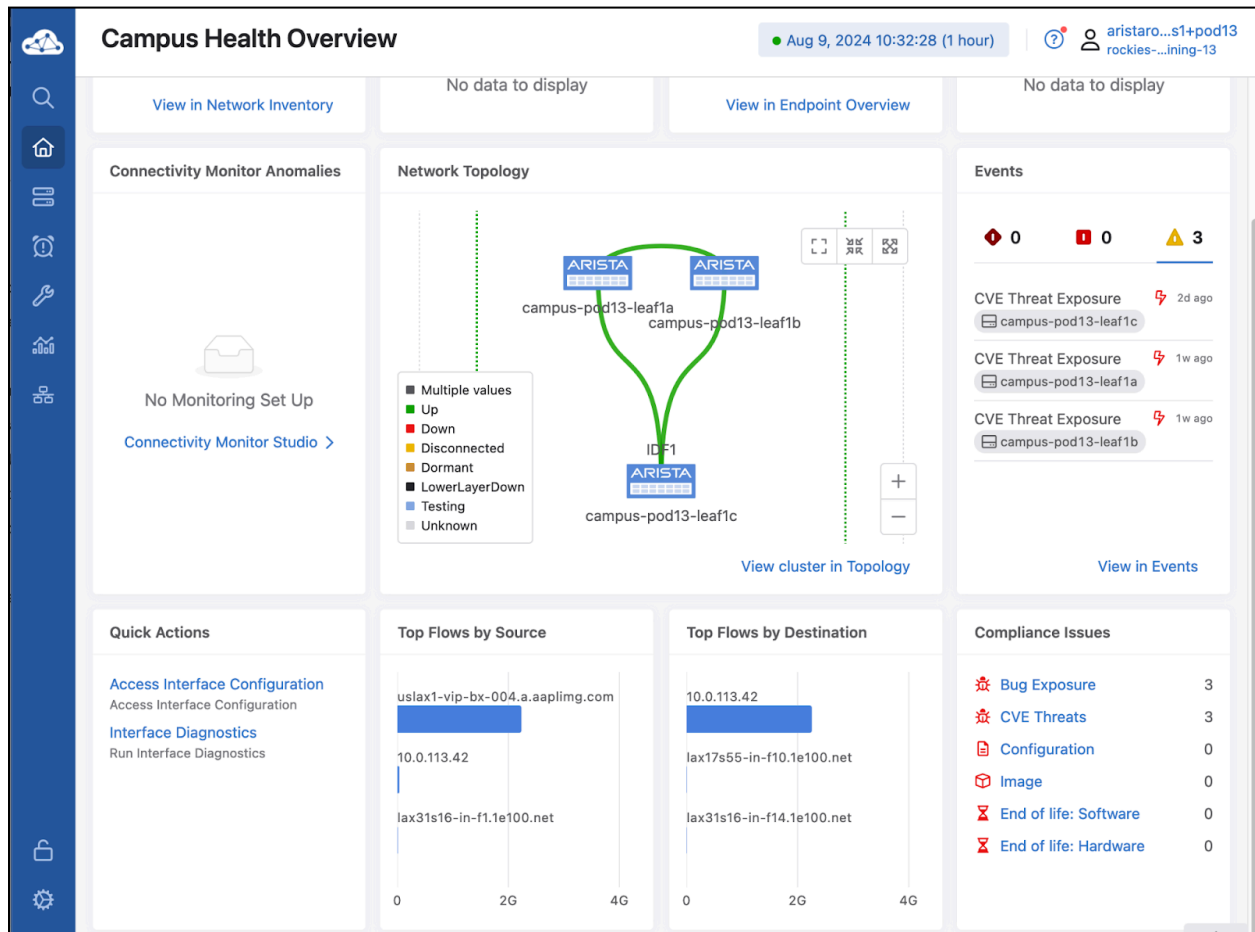
1. in the “**Organization**” box enter the Organization name “**rockies-training-##**” where **##** is a 2 digit character between 01-20 that was assigned to your lab/Pod, then click “**Enter**”.



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



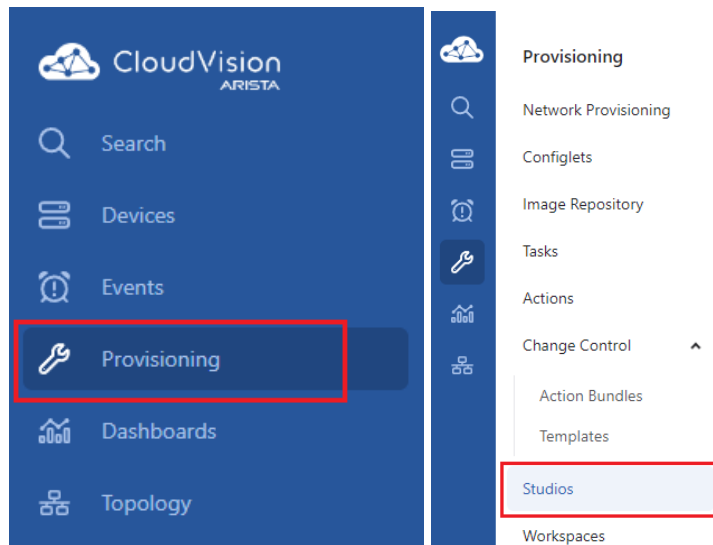
3. You will now be logged into CloudVision



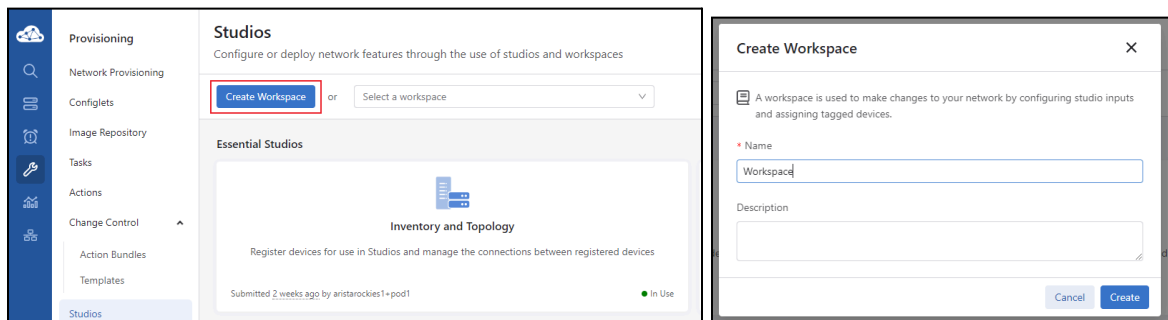
## 2. Creating Port Profiles

This lab will help you create port profiles and apply them to interfaces in your ATD network.

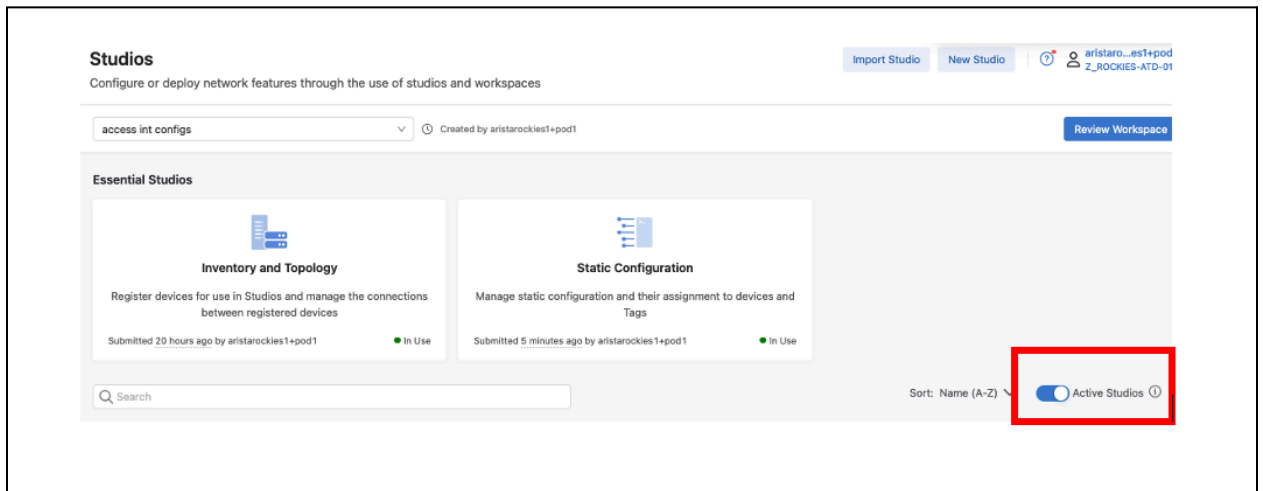
1. Click on the **Provisioning** menu option, then choose **Studios**



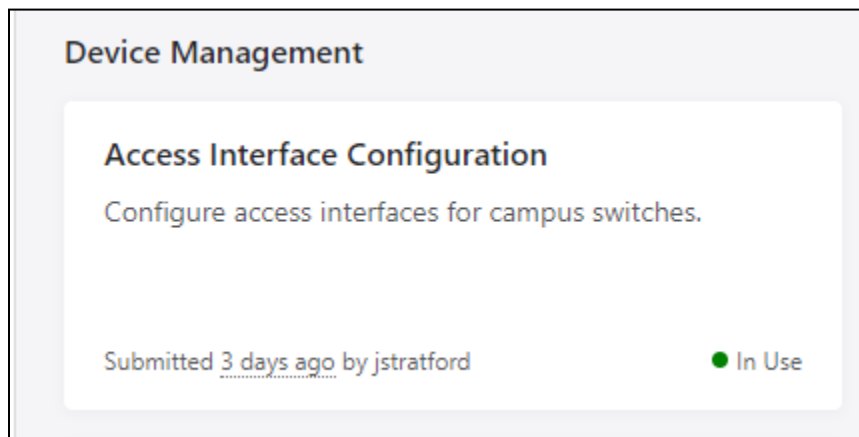
2. Click **Create Workspace** and give it any name you would like. A workspace acts as a sandbox where you can stage your configuration changes before deploying them



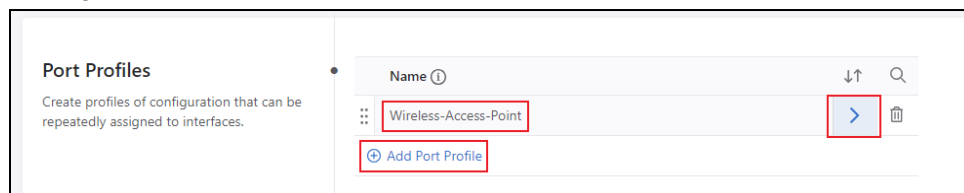
3. Disable the **Active Studios** toggle to display all available CloudVision Studios (which when enabled will only show used/active Studios). **\*Note:-** the toggle may already be in the disabled position.



4. Create two port profiles using the **Access Interface Configuration** studio that will be used to provision connected hosts.
- a. Launch the **Access Interface Configuration**



- b. Click **Add Port Profile**, name it **"Wireless-Access-Point"**, and click the arrow on the right



- c. Enter the following values on this configuration page
- Description: **"Wireless-Access-Point"**
  - Enabled: **Yes**



Configuration for  
**Wireless-Access-Point**

### Parent Profile

Use and modify the configuration of another profile. All blank inputs will use the configuration of the parent profile.

#### Parent Profile ⓘ

### Description

Description to be used on all ports.

#### Description ⓘ

### Enabled

Administrative state, setting to "No" will set the port to "shutdown" in the intended configuration.

#### Enabled ⓘ

- iii. Mode: **Access**
- iv. VLANs: "1##" where ## is a 2 digit character between 01-20 that was assigned to your lab/Pod. e.g Pod01 is VLAN101, Pod13 is VLAN113
- v. POE:
  1. Reboot Action: **Maintain**
  2. Link Down Action: **Maintain**
  3. Shutdown Action: **Maintain**

### Mode

Interface mode

#### Mode ⓘ

### VLANs

#### VLANs ⓘ

### Spanning Tree

#### Portfast

#### BPDU Filter

#### BPDU Guard

### 802.1X

#### Enabled

### POE

Power Over Ethernet settings applied on port. Only configured if the platform supports PoE.

#### Priority ⓘ

#### Reboot Action ⓘ

#### Link Down Action ⓘ

#### Shutdown Action ⓘ

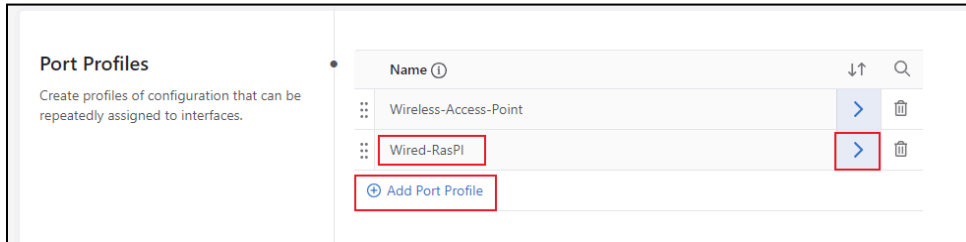
- d. Navigate back to **Access interface Configuration** by clicking on the top

Wireless-Access-Point

Configuration for

**Wireless-Access-Point**

- e. Click **Add Port Profile**, name it **“Wired-RasPI”**, and click the arrow on the right



Port Profiles

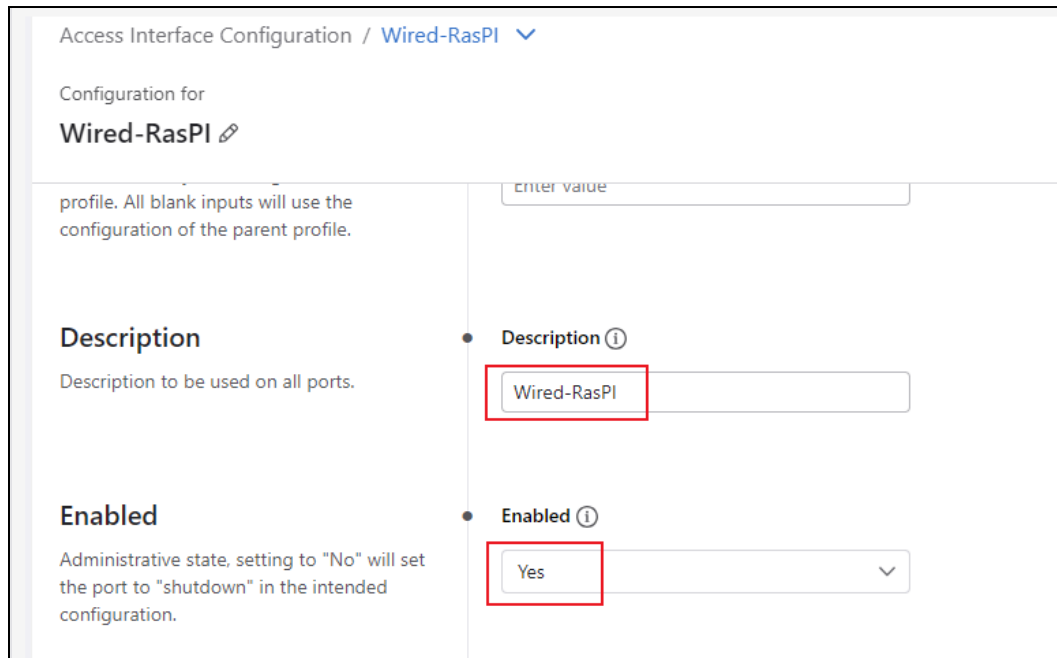
Create profiles of configuration that can be repeatedly assigned to interfaces.

Name ⓘ	↓↑	🔍
Wireless-Access-Point	>	🗑️
Wired-RasPI	>	🗑️

+ Add Port Profile

- f. Enter the following values on this configuration page

- Description: **“Wired-RasPI”**
- Enabled: **Yes**



Access Interface Configuration / Wired-RasPI ▼

Configuration for  
**Wired-RasPI** ✎

profile. All blank inputs will use the configuration of the parent profile.

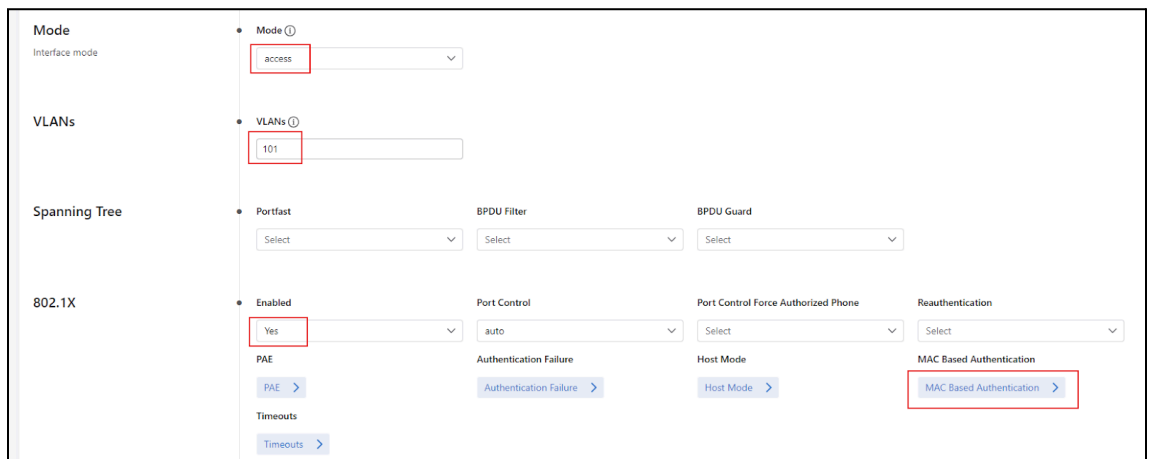
**Description**  
Description to be used on all ports.

**Enabled**  
Administrative state, setting to "No" will set the port to "shutdown" in the intended configuration.

**Description ⓘ**  
Wired-RasPI

**Enabled ⓘ**  
Yes

- Mode: **Access**
- VLANs: **“1##”** where **##** is a 2 digit character between 01-20 that was assigned to your lab/Pod. e.g Pod01 is VLAN101, Pod13 is VLAN113
- 802.1X: Enabled = **Yes**
- Click **MAC Based Authentication**



**Mode**  
Interface mode

Mode ⓘ  
access

**VLANs**

VLANs ⓘ  
101

**Spanning Tree**

Portfast  
Select

BPDU Filter  
Select

BPDU Guard  
Select

**802.1X**

Enabled  
Yes

Port Control  
auto

Port Control Force Authorized Phone  
Select

Reauthentication  
Select

PAE  
PAE >

Authentication Failure  
Authentication Failure >

Host Mode  
Host Mode >

MAC Based Authentication  
MAC Based Authentication >

Timeouts  
Timeouts >

vii. Set Enabled: **Yes**

1. Navigate back to the previous page

Access Interface Configuration / **Wired-RasPI** / 802.1X / MAC Based Authentication

**Enabled**

• Enabled

Yes

**Always**

• Always

Select

viii. **POE:**

1. Reboot Action: **Maintain**
2. Link Down Action: **Maintain**
3. Shutdown Action: **Maintain**

POE

Power Over Ethernet settings applied on port. Only configured if the platform supports PoE.

• Priority ⓘ

Select

Reboot Action ⓘ

maintain

Link Down Action ⓘ

maintain

Shutdown Action ⓘ

maintain

5. Review and Submit the Workspace

i. Click **Review Workspace**

✓ Saved 4 minutes ago

Review Workspace

ii. Note that none of the device configurations have been changed after submitting this workspace

Workspaces

Workspace Build Succeeded

No description

jstratford Last Modified: 28 seconds ago

Rebuild Submit Workspace jstratford Z\_ROCKIES-ATD-01

### Summary

[View All Modification Details](#)

Studios Modified	Modification Type
<a href="#">Access Interface Configuration</a>	Input
Number of Tag Changes 0	

### Build Status

[View Build Details](#)

Last built 26 seconds ago

Input Validation

Configlet Compilation

Config Validation

3 Unchanged devices present

iii. Click **Submit Workspace**

Workspaces

Workspace Build Succeeded

No description

jstratford Last Modified: 28 seconds ago

Rebuild **Submit Workspace** jstratford Z\_ROCKIES-ATD-01

### Summary

[View All Modification Details](#)

Studios Modified	Modification Type
<a href="#">Access Interface Configuration</a>	Input
Number of Tag Changes 0	

### Build Status

[View Build Details](#)

Last built 26 seconds ago

Input Validation

Configlet Compilation

Config Validation

3 Unchanged devices present

iv. Click **Close**

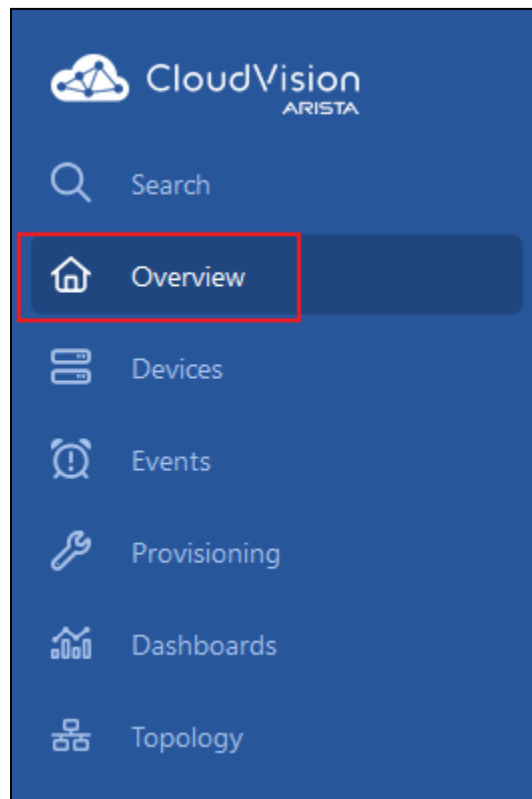
Workspace Submitted

Submitted successfully

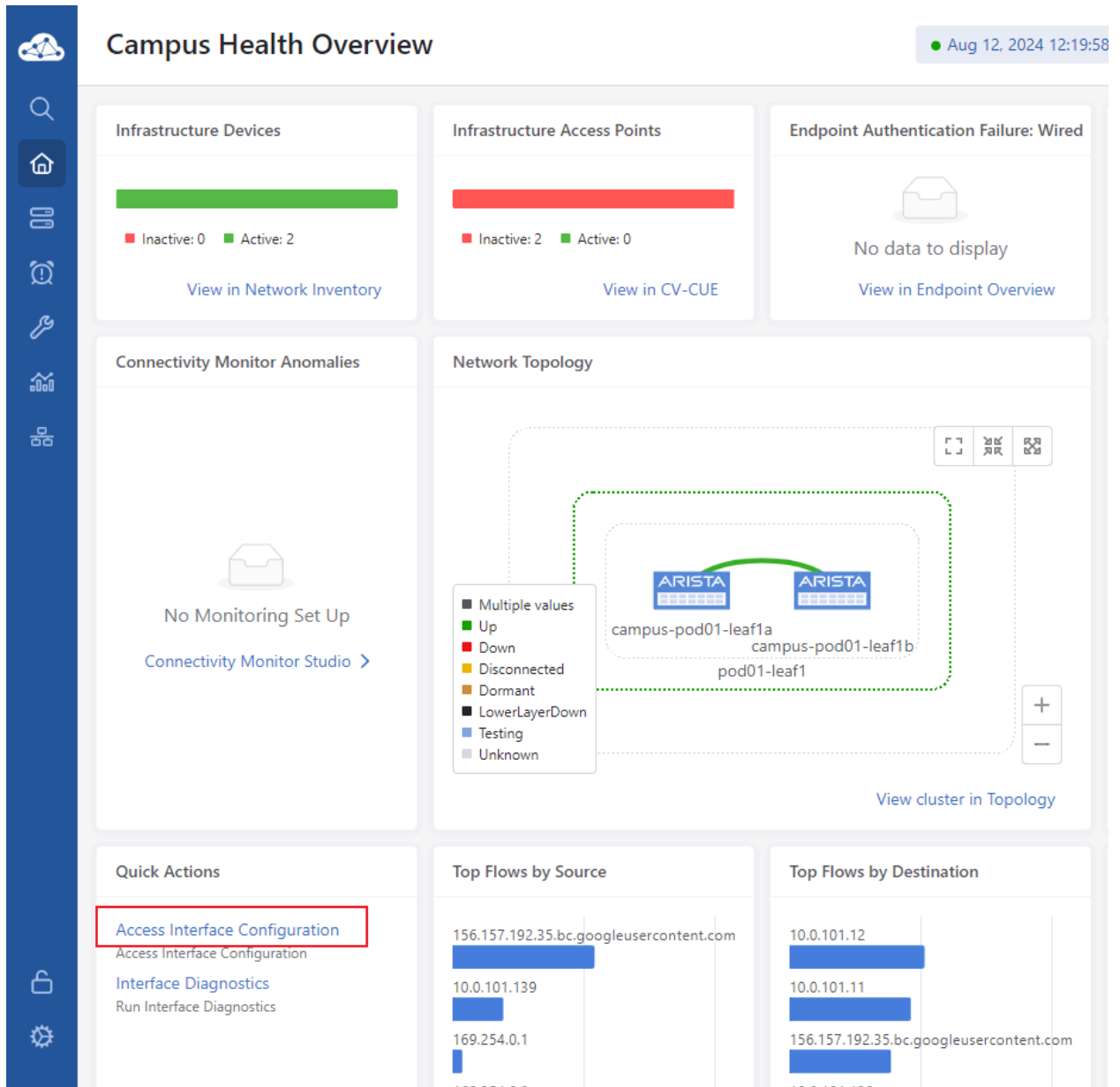
**Close** Visit Studios

### 3. Assigning Port Profiles for AP and RPI

1. Assign the configured port profiles to the switches access ports
  - a. Click **Overview** option on the navigation bar



- b. Locate the Quick Actions panel on the lower left of the screen and Click **Access Interface Configuration**



- c. Select the Campus (Workshop), Campus Pod (IT-Bldg), and Access Pod(IDF1)  
**\*Note:** there is only one option for each drop-down.

## Access Interface Configuration

**Campus**

Workshop

**Campus Pod**

IT-Bldg

**Access Pod**

IDF1

**Port Profile** ⓘ

Select an interface to select profile or configure overrides

- d. Select to highlight port **Ethernet1** on bottom switch: campus-pod<##>-leaf1c  
**\*Note:** you will may see the bottom device with a hostname format: sw-<IP>  
 Example: sw-10.0.113.40
- e. Choose the Port Profile of **Wireless-Access-Point**
- f. Click **Yes** radio button under **Enabled**
- g. Click **Submit**

### Access Interface Configuration

Campus

Workshop

Campus Pod

IT-Bldg

Access Pod

IDF1

Port Profile ⓘ

Wireless-Access-Point

**Enabled**

☒ Yes
 ☐ No

Description

Description

> Advanced Options

**Device**

campus-pod01-leaf1a

ARISTA 710P-16P

campus-pod01-leaf1b

ARISTA 710P-16P

campus-pod01-leaf1c

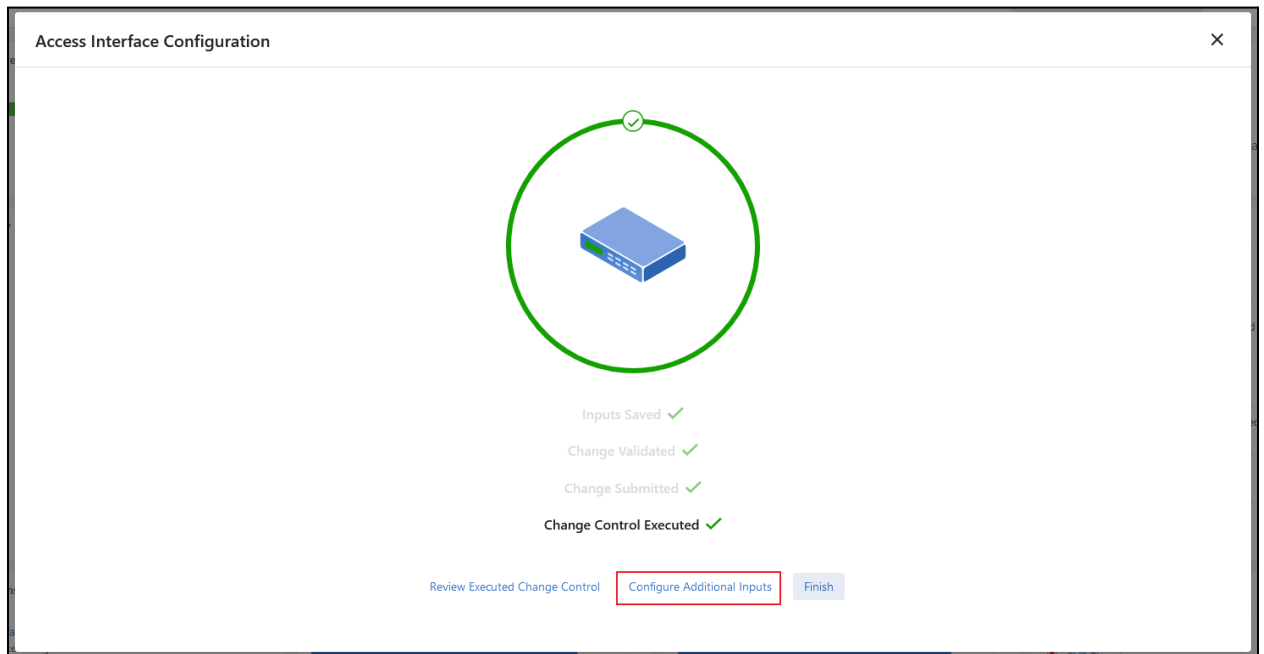
ARISTA 710P-16P

Cancel

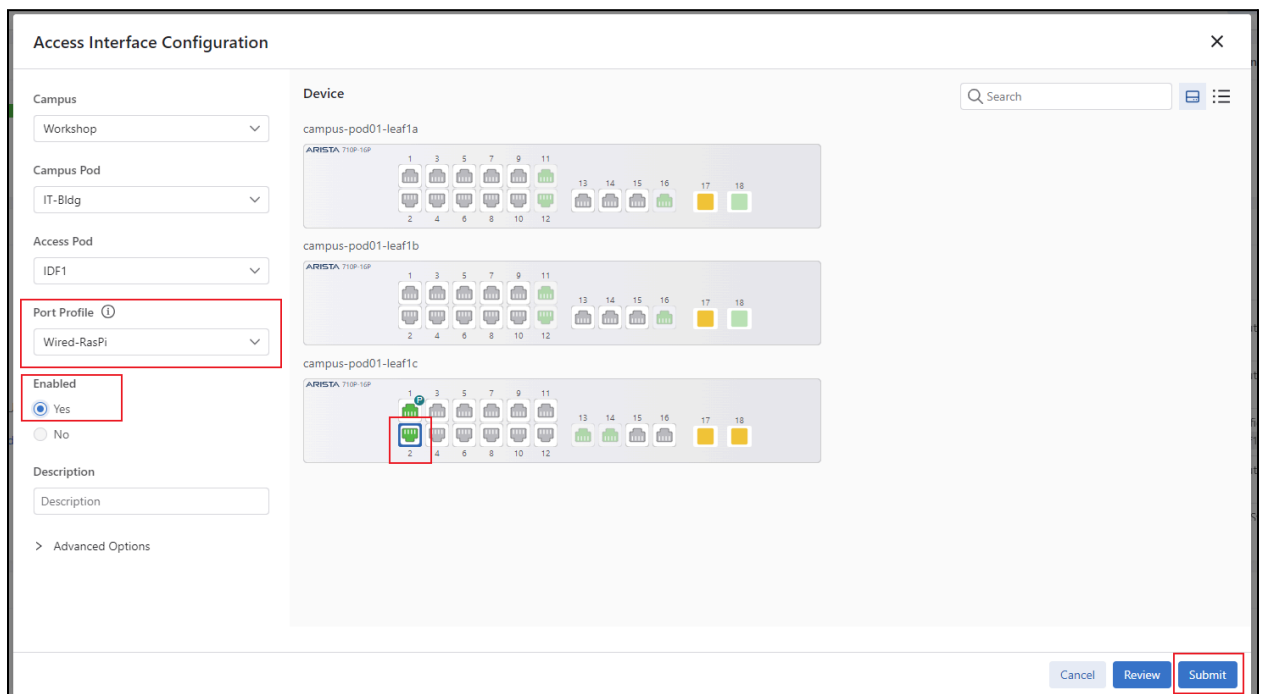
Review

Submit

- h. Once the Change Control has been executed, click **Configure Additional Inputs** to configure another access port

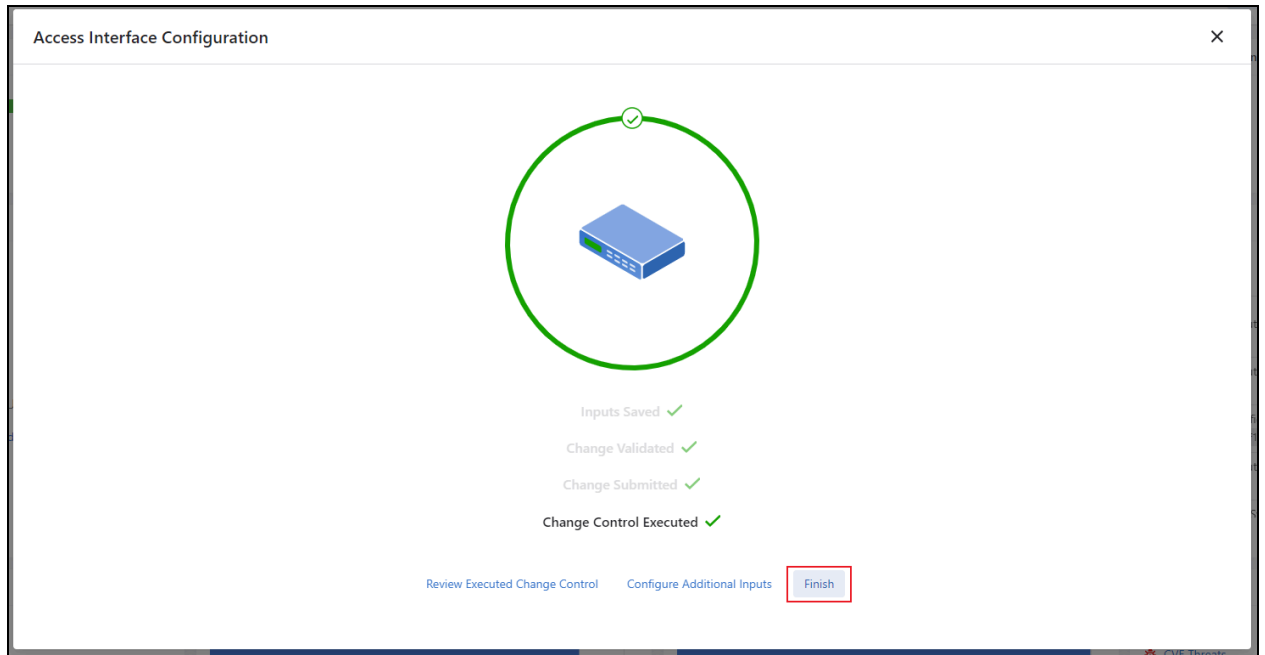


- i. Again, select the Campus (Workshop), Campus Pod (IT-Bldg), and Access Pod (IDF1)
- j. Select to highlight port **Ethernet2** on campus-pod<##>-leaf1c (hostname may not match)
- k. Choose the Port Profile of “**Wired-RasPI**”
- l. Click **Yes** radio button under **Enabled**
- m. Click **Submit**



- n. Once the Change Control has been executed, click **Finish**





LAB GUIDE COMPLETE