

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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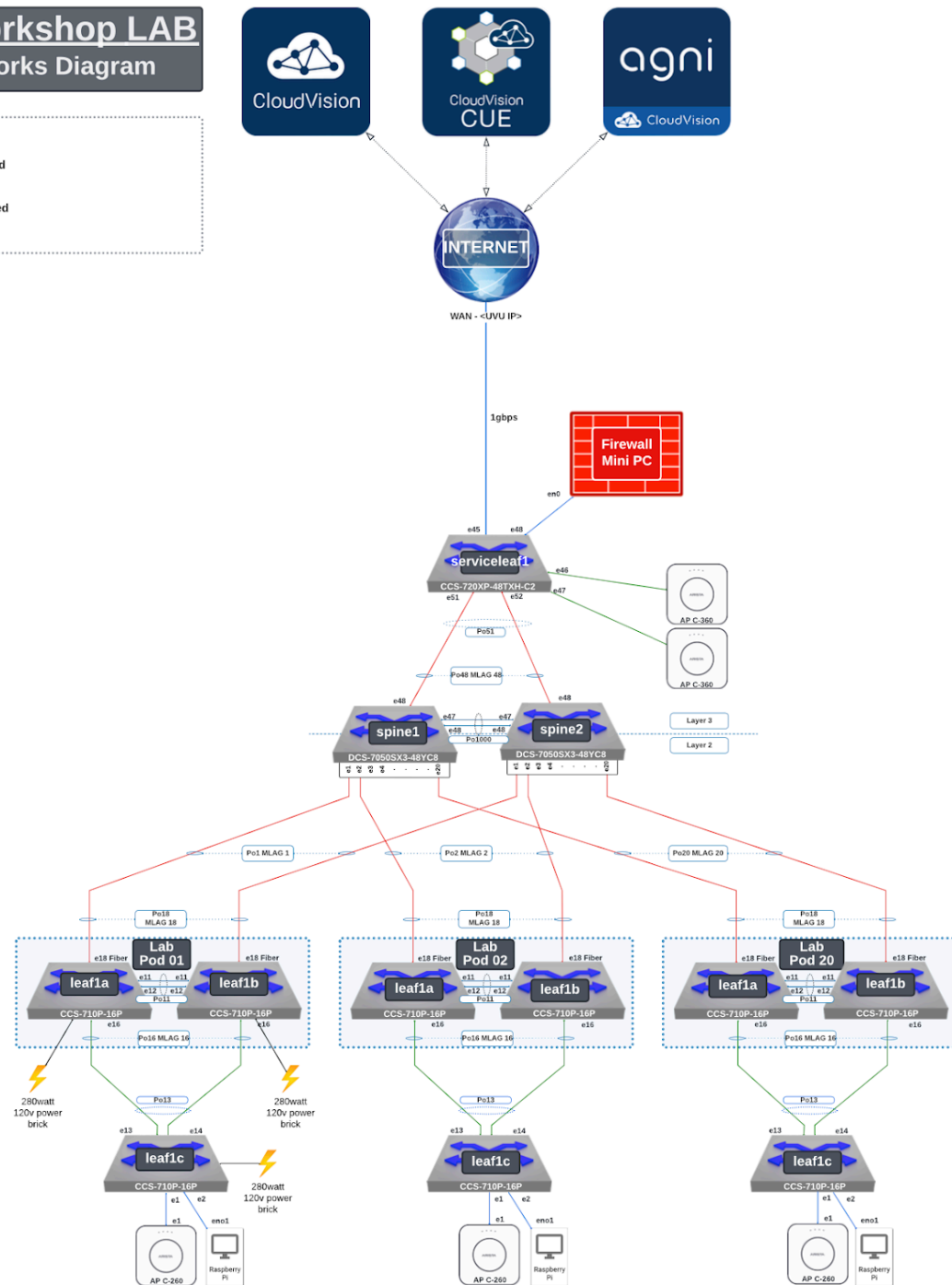
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Full Lab Topology

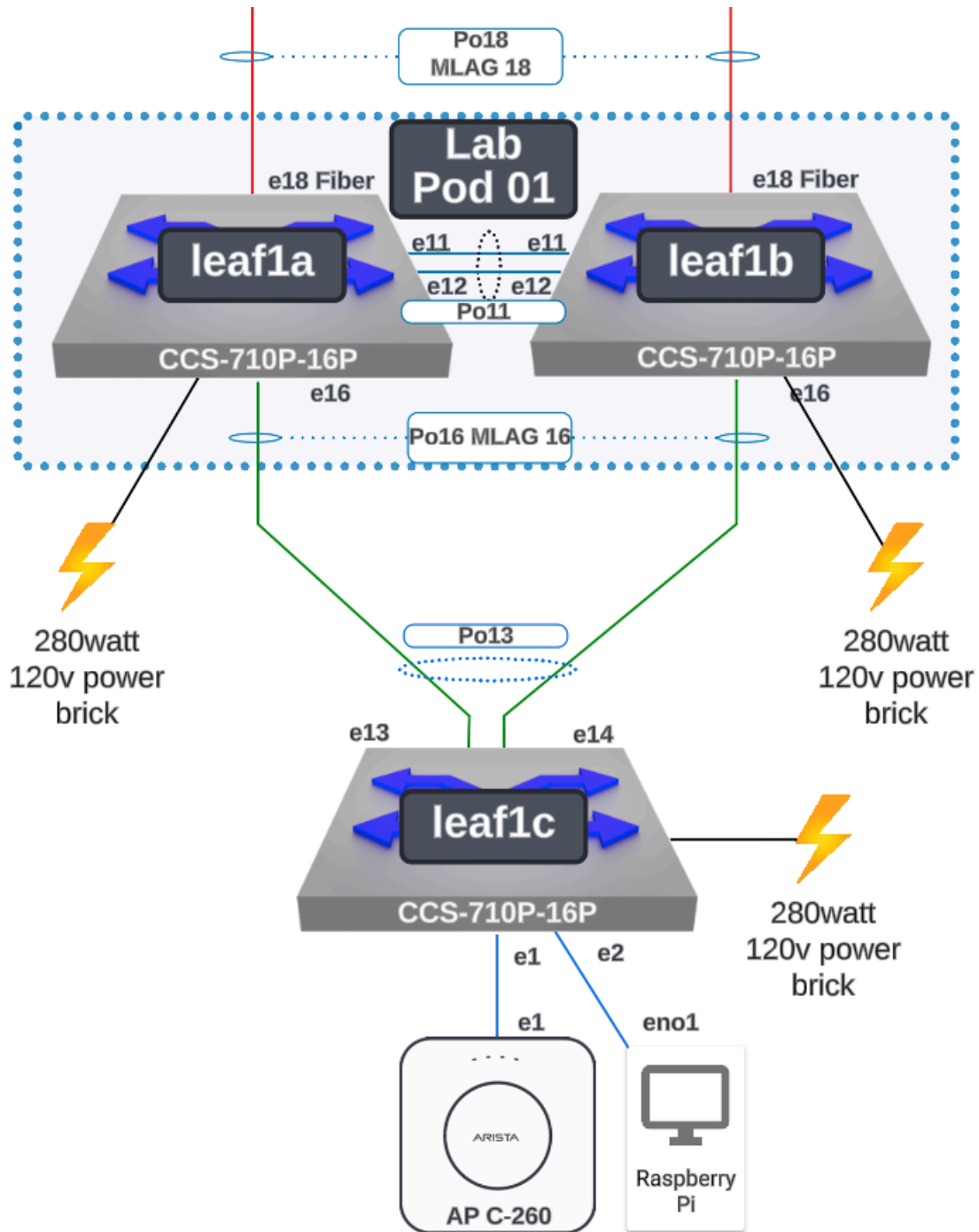
Arista Workshop LAB Lab Networks Diagram

Key:

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



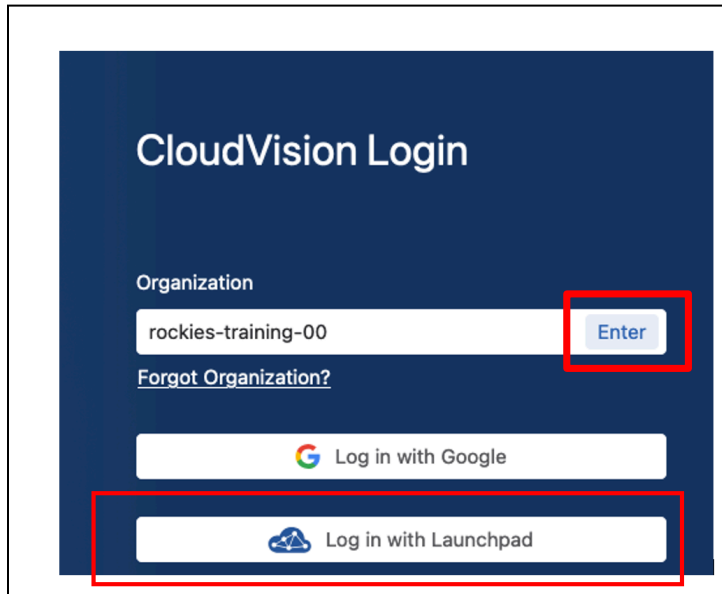
POD Topology



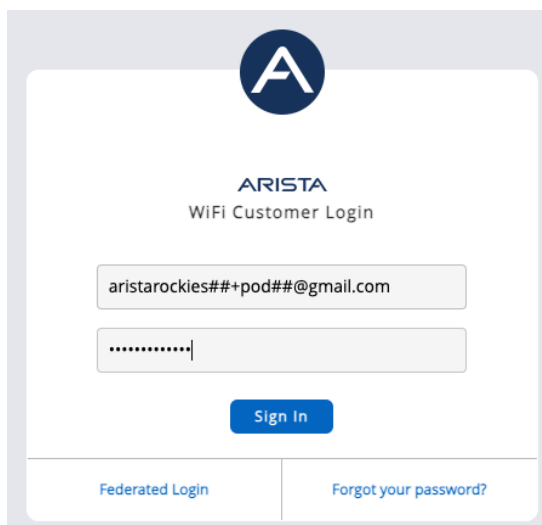
1. Accessing CloudVision as a Service

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

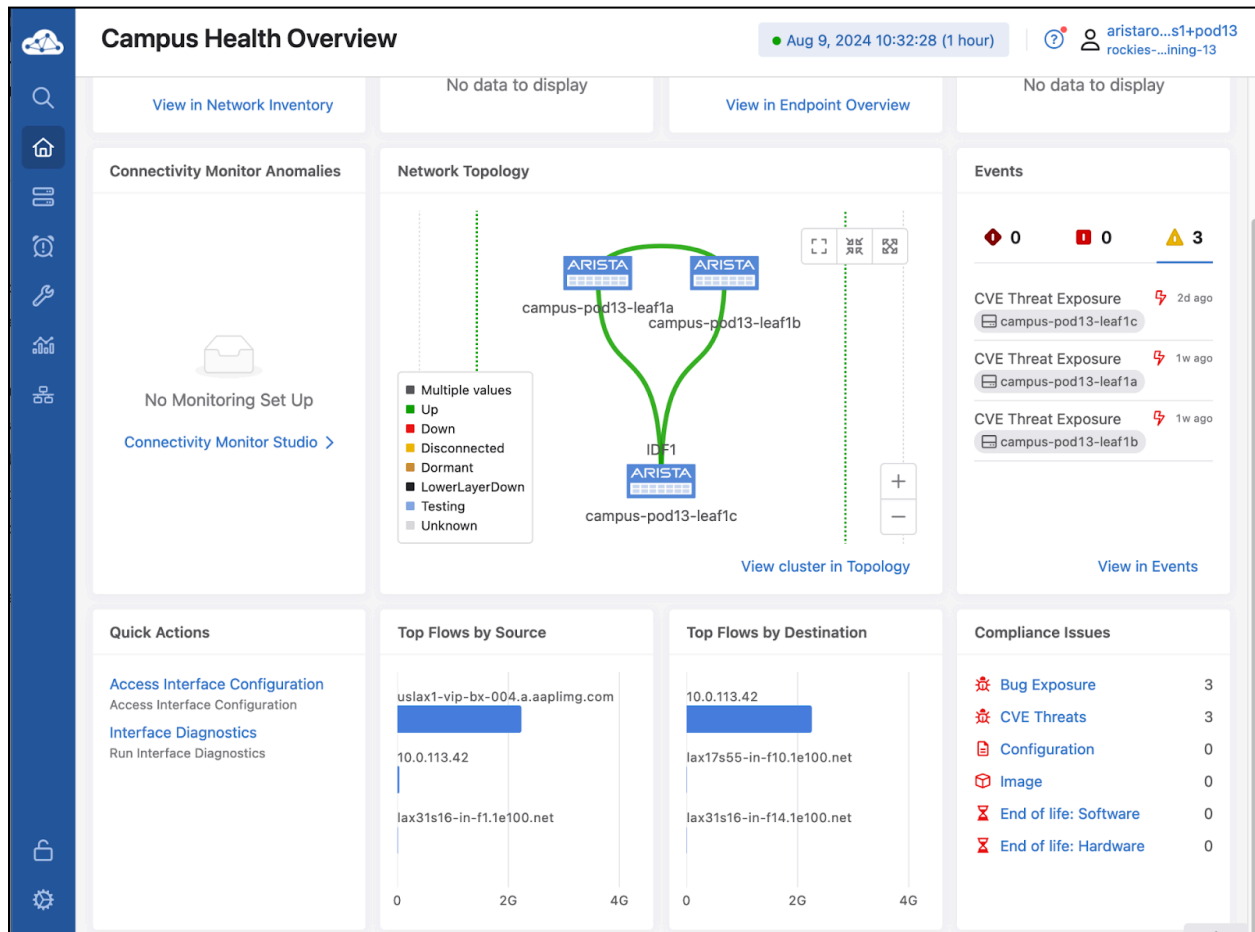
1. in the “**Organization**” box enter the Organization name “**rockies-training-##**” where **##** is a 2 digit character between 01-20 that was assigned to your lab/Pod, then click “**Enter**”.



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



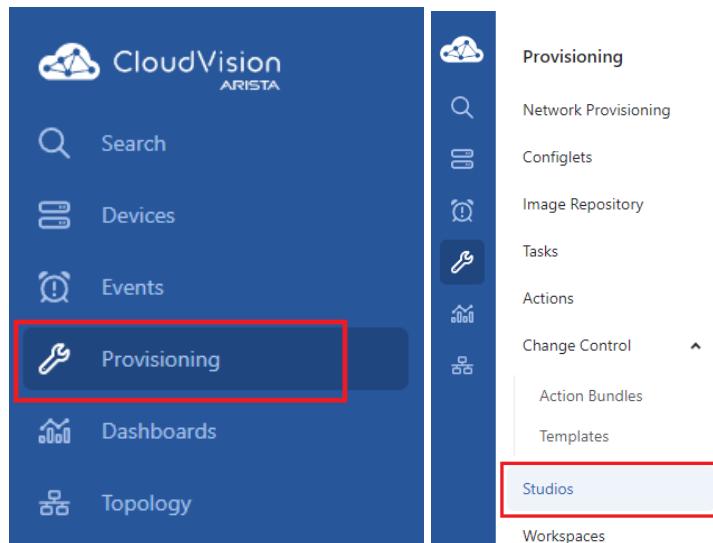
3. You will now be logged into CloudVision



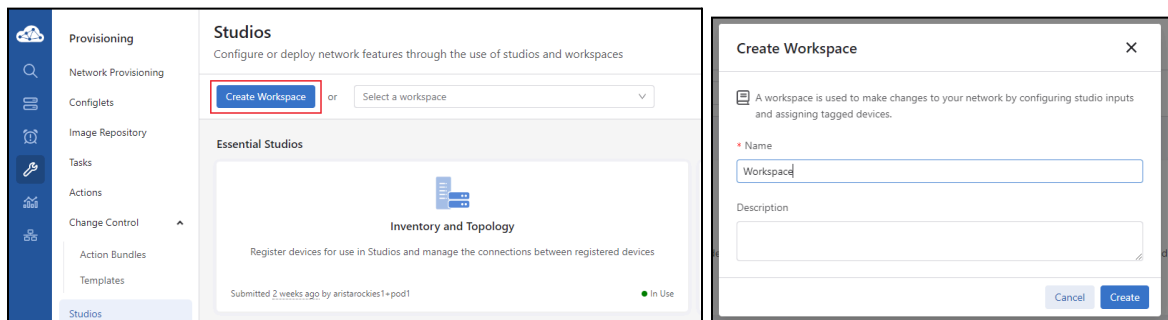
2. Creating Port Profiles

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

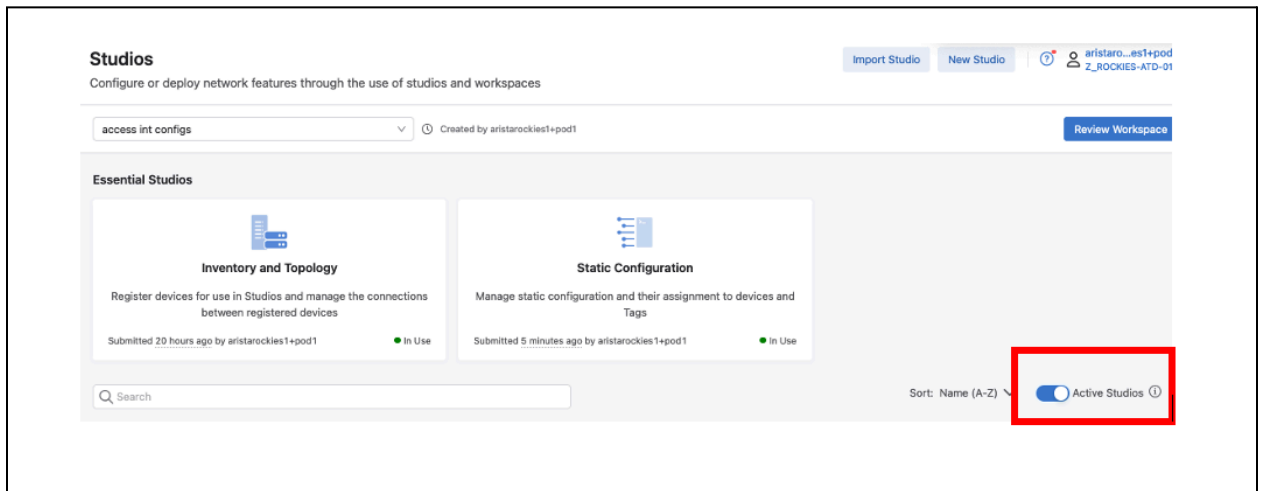
1. Click on the **Provisioning** menu option, then choose **Studios**



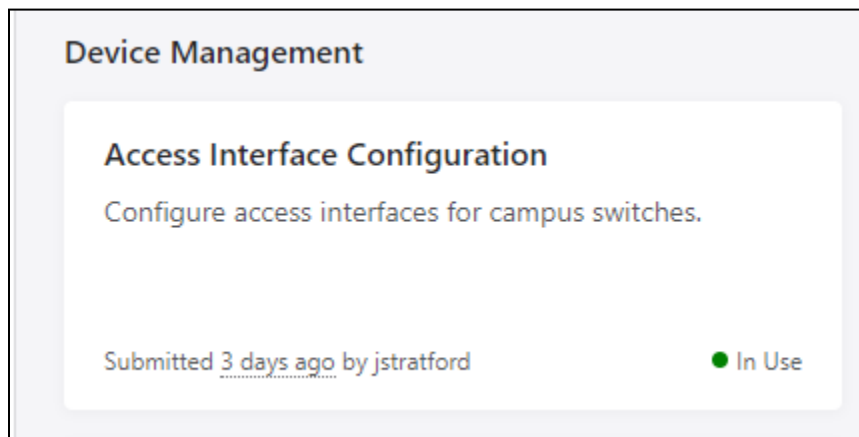
2. Click **Create Workspace** and give it any name you would like. A workspace acts as a sandbox where you can stage your configuration changes before deploying them



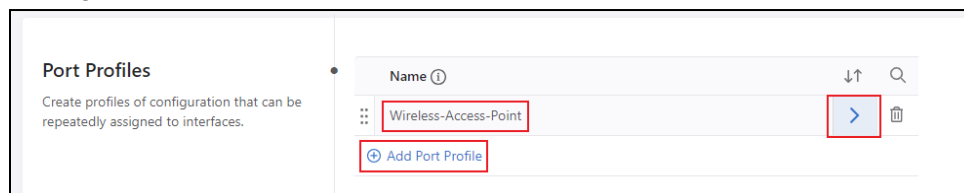
3. Disable the **Active Studios** toggle to display all available CloudVision Studios (which when enabled will only show used/active Studios). ***Note:-** the toggle may already be in the disabled position.



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 ⓘ

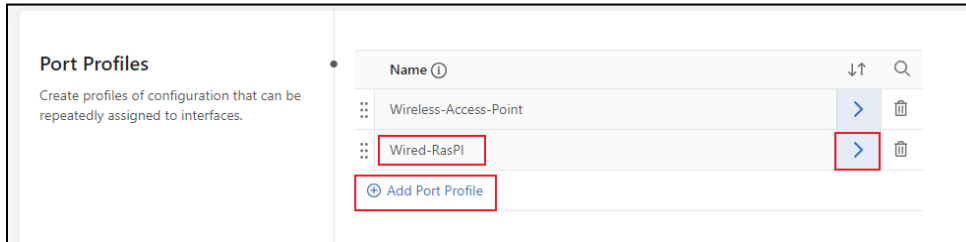
- d. Navigate back to **Access interface Configuration** by clicking on the top

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

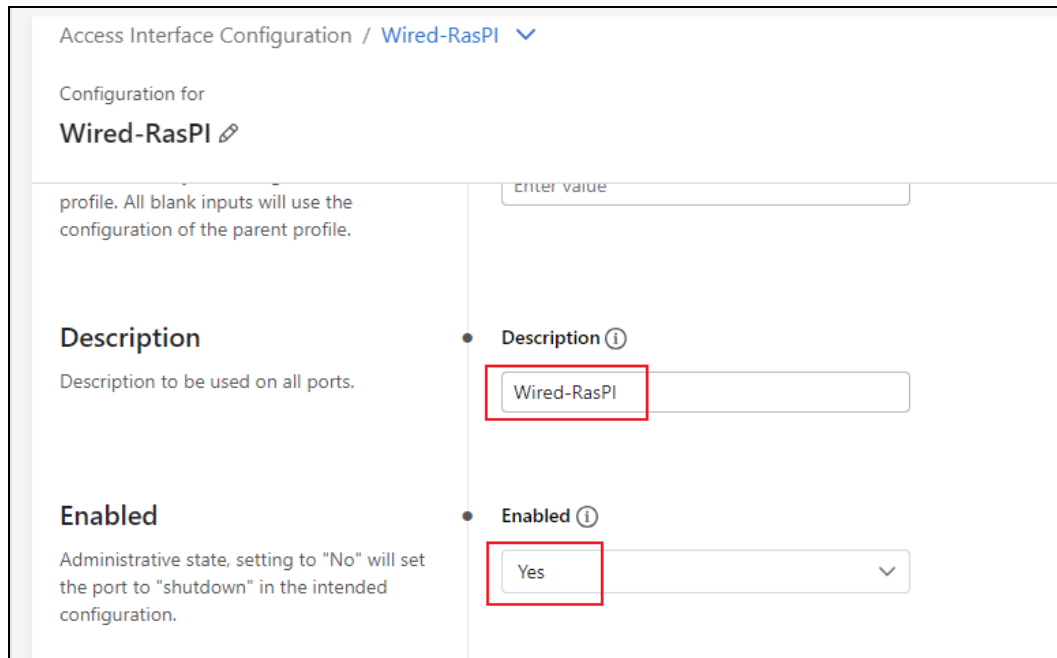
Create profiles of configuration that can be repeatedly assigned to interfaces.

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.

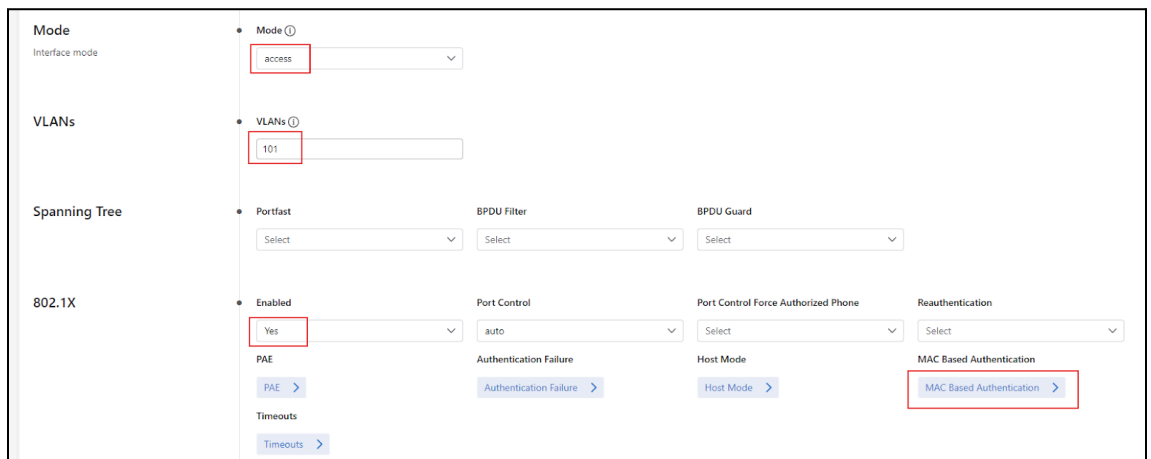
Description
Description to be used on all ports.

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 >

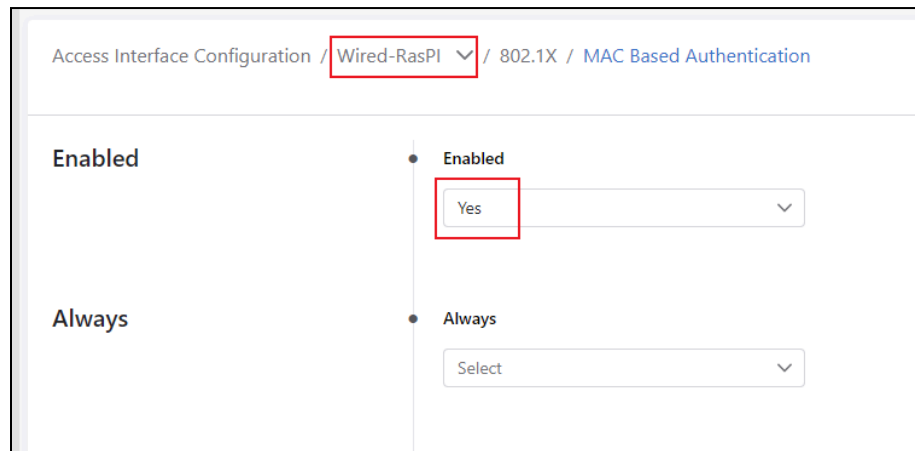
Host Mode
Host Mode >

MAC Based Authentication
MAC Based Authentication >

Timeouts
Timeouts >

vii. Set Enabled: **Yes**

1. Navigate back to the previous page



The screenshot shows the 'Access Interface Configuration' page for 'Wired-RasPI'. The breadcrumb navigation is 'Access Interface Configuration / Wired-RasPI / 802.1X / MAC Based Authentication'. The 'Enabled' section has a dropdown menu with 'Yes' selected. The 'Always' section has a dropdown menu with 'Select' selected.

viii. **POE:**

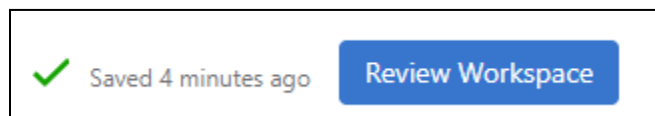
1. Reboot Action: **Maintain**
2. Link Down Action: **Maintain**
3. Shutdown Action: **Maintain**



The screenshot shows the 'POE' settings page. The 'Priority' dropdown is set to 'Select'. The 'Reboot Action', 'Link Down Action', and 'Shutdown Action' dropdowns are all set to 'maintain'.

5. Review and Submit the Workspace

i. Click **Review Workspace**



The screenshot shows a green checkmark icon, the text 'Saved 4 minutes ago', and a blue button labeled 'Review Workspace'.

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

Workspaces

Workspace Build Succeeded

No description

jstratford Last Modified: 28 seconds ago

Rebuild Submit Workspace

Summary

[View All Modification Details](#)

Studios Modified	Modification Type
Access Interface Configuration	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**

Summary

[View All Modification Details](#)

Studios Modified	Modification Type
Access Interface Configuration	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**

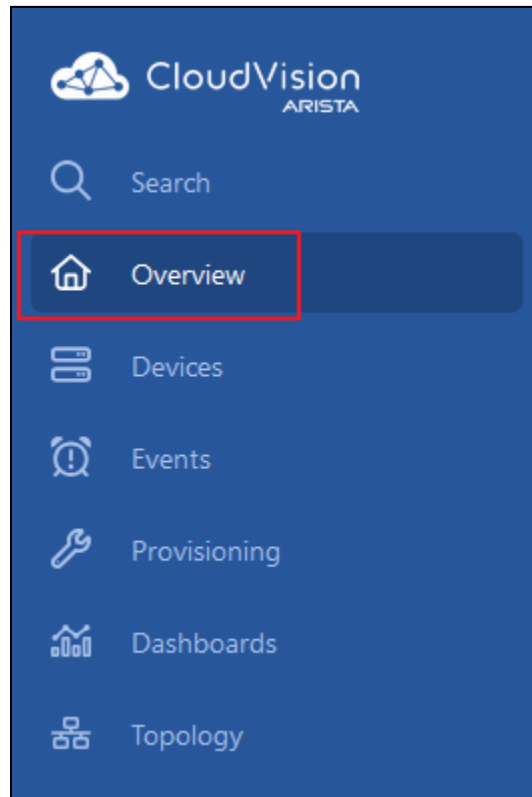
Workspace Submitted

Submitted successfully

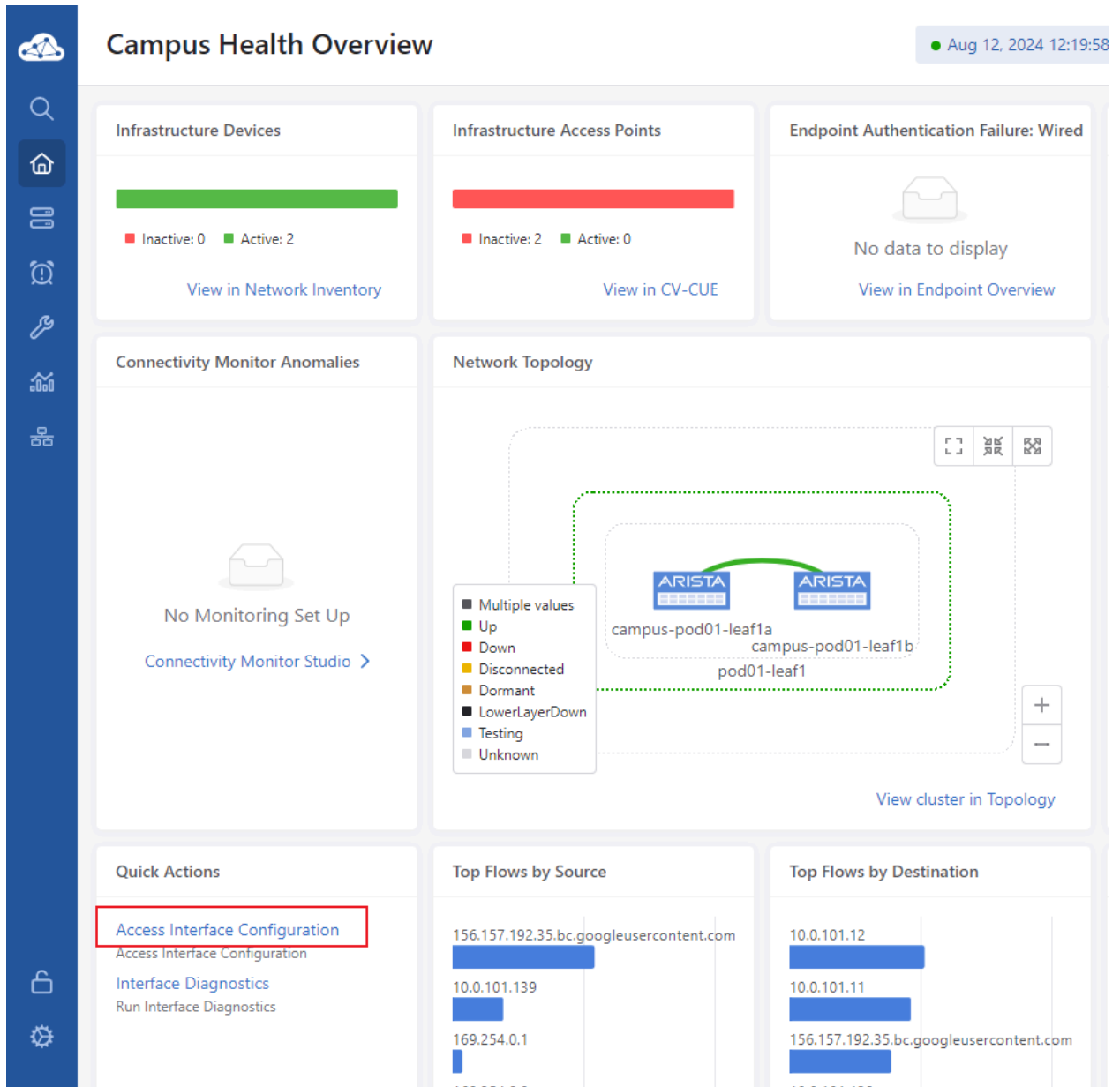
Close Visit Studios

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

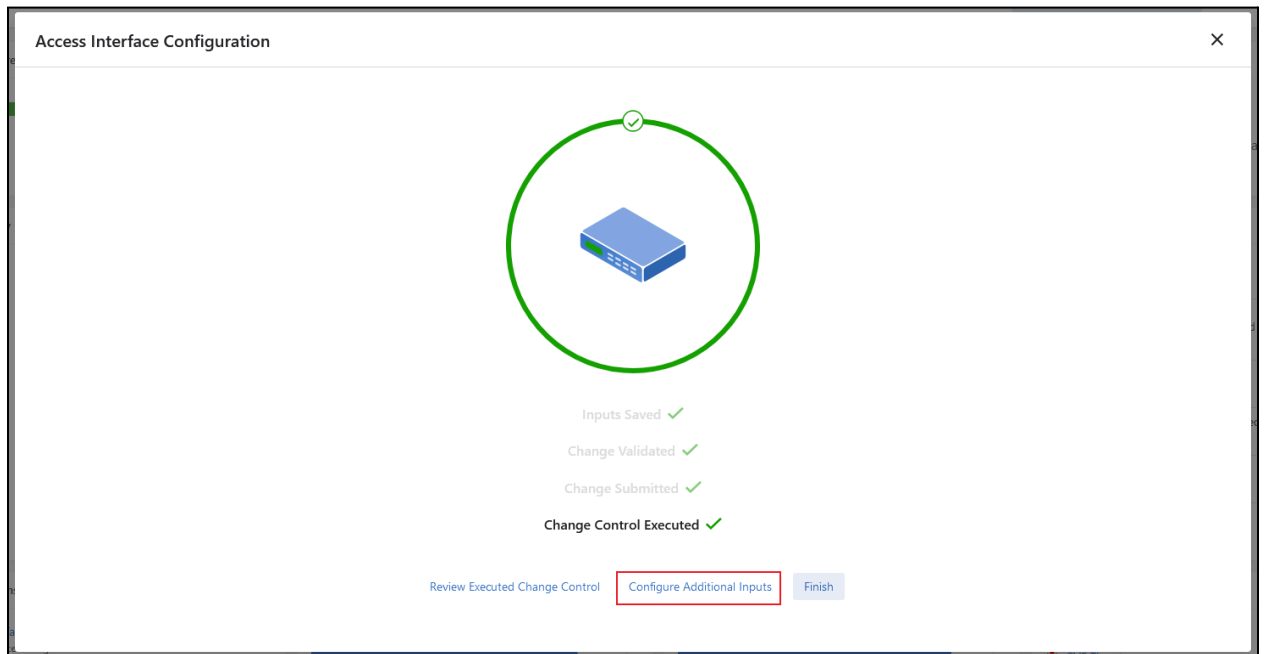
ARISTA 710P-16P

Cancel

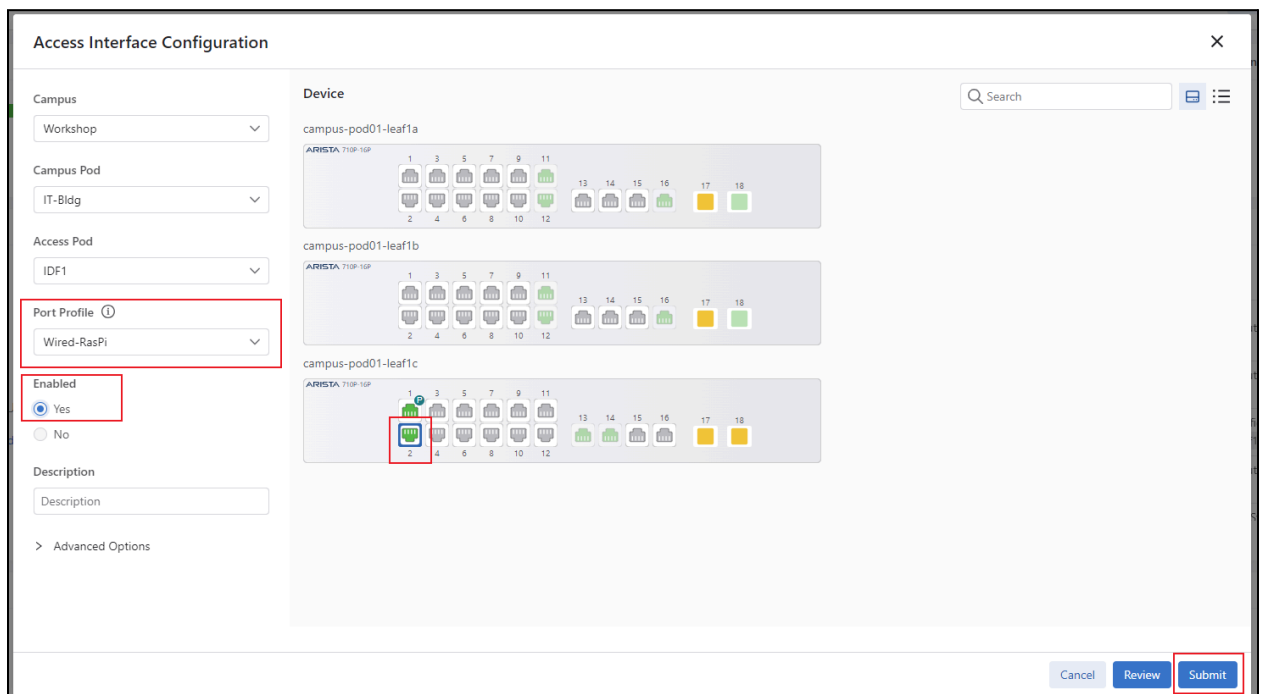
Review

Submit

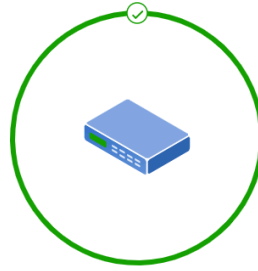
- h. Once the Change Control has been executed, click **Configure Additional Inputs** to configure another access port



- 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**



Inputs Saved ✓

Change Validated ✓

Change Submitted ✓

Change Control Executed ✓

[Review Executed Change Control](#)

[Configure Additional Inputs](#)

[Finish](#)