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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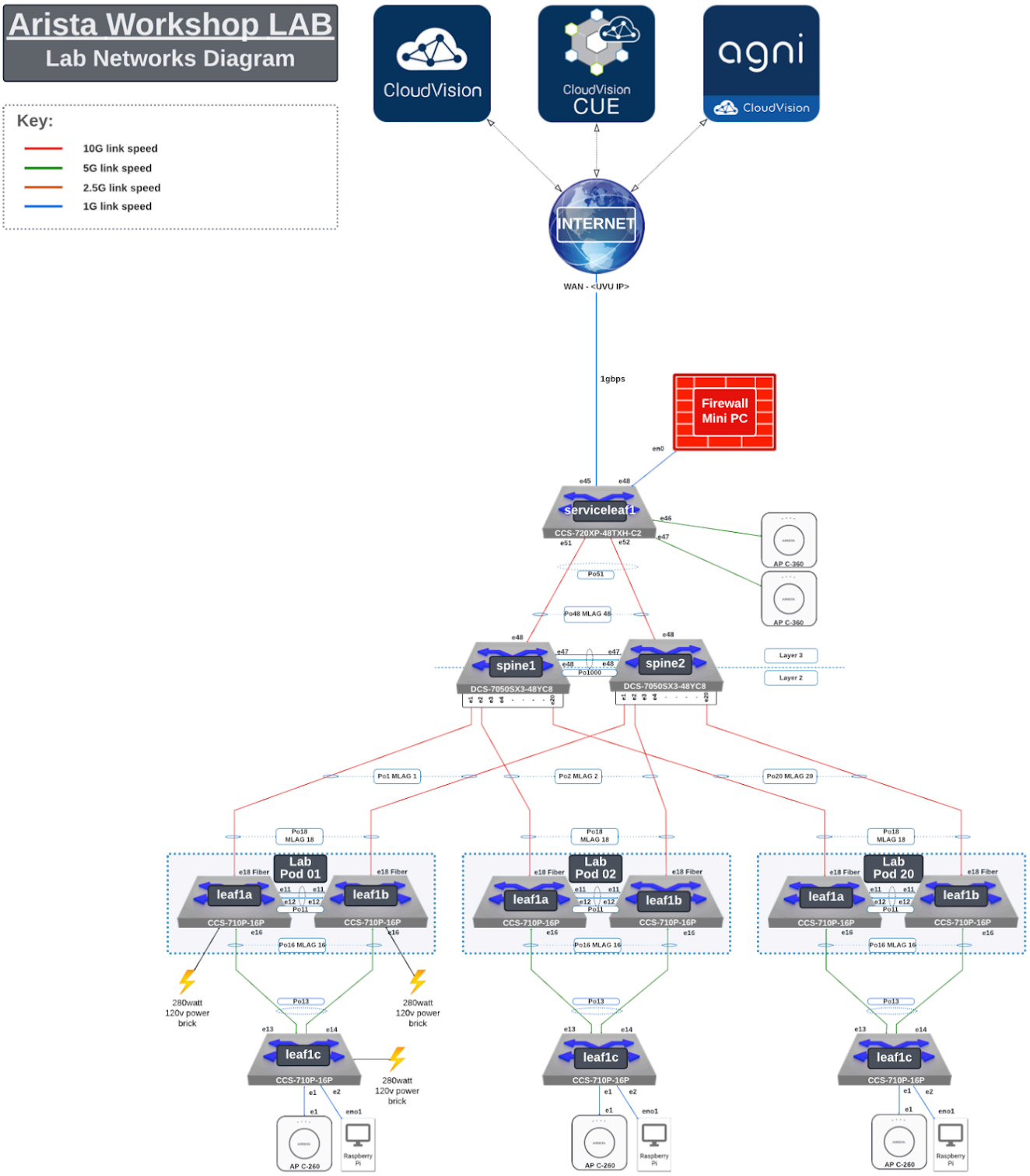
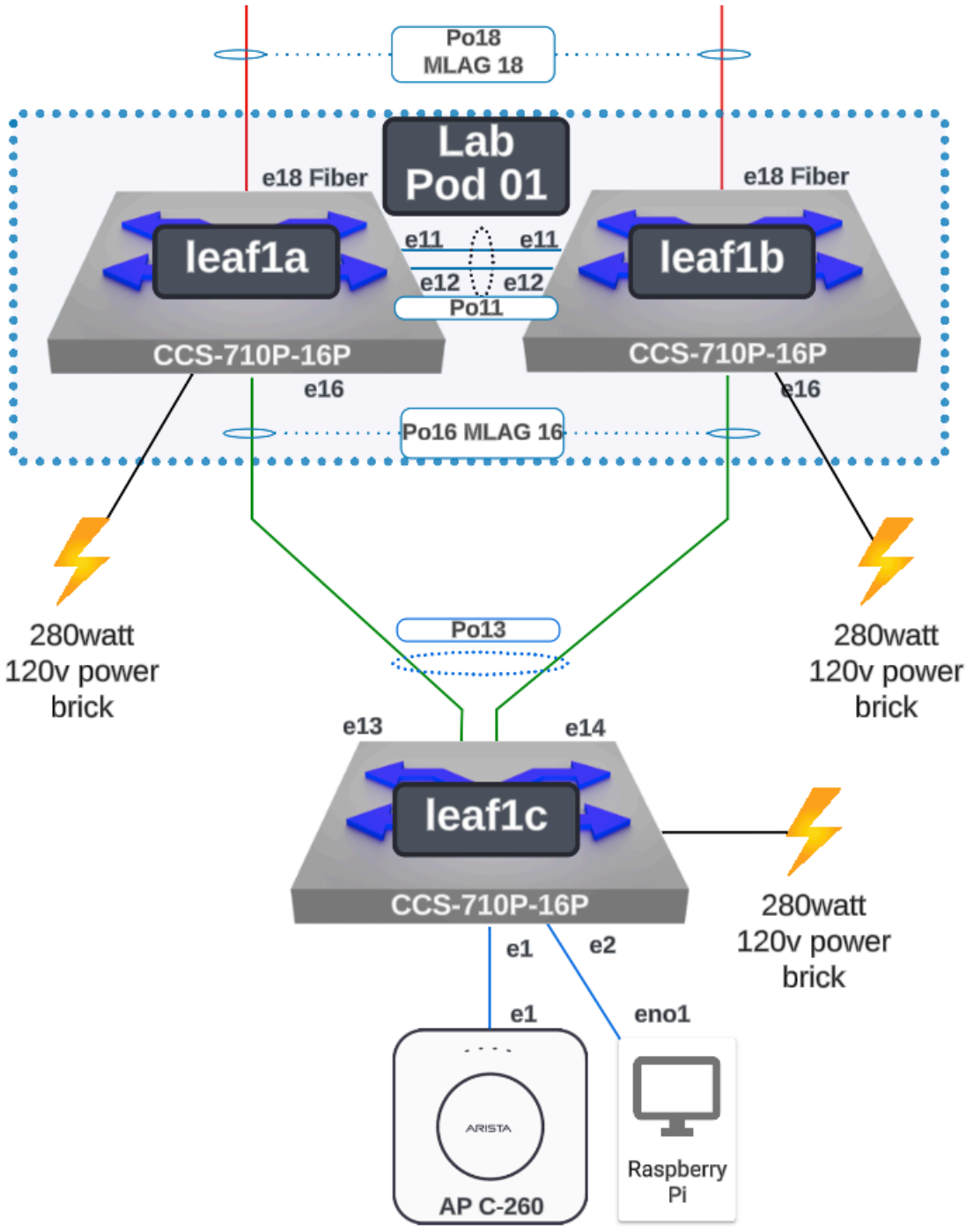
Full Lab Topology



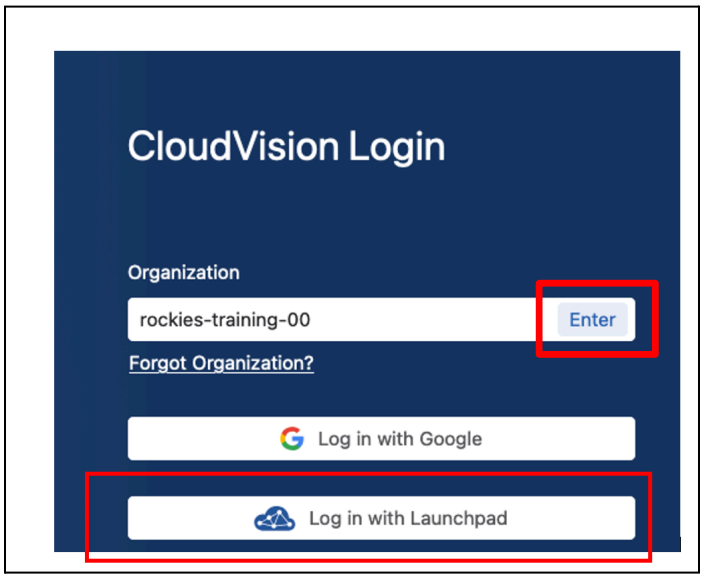
POD Topology



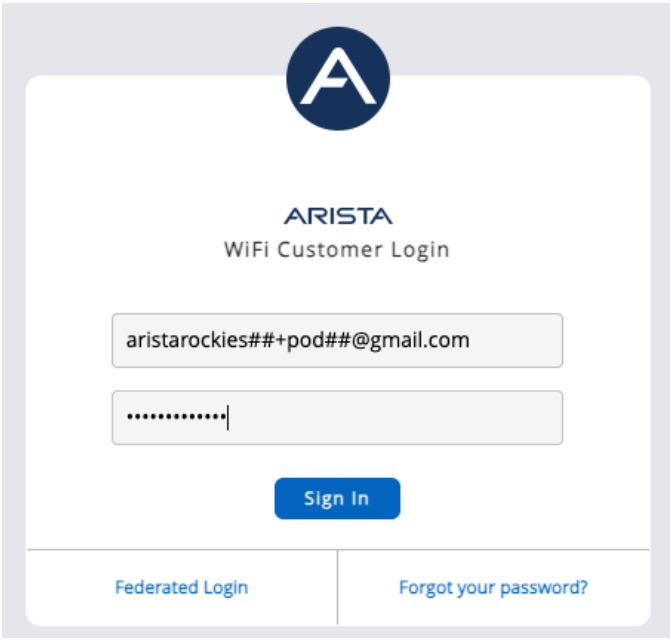
1. Accessing CloudVision as a Service

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

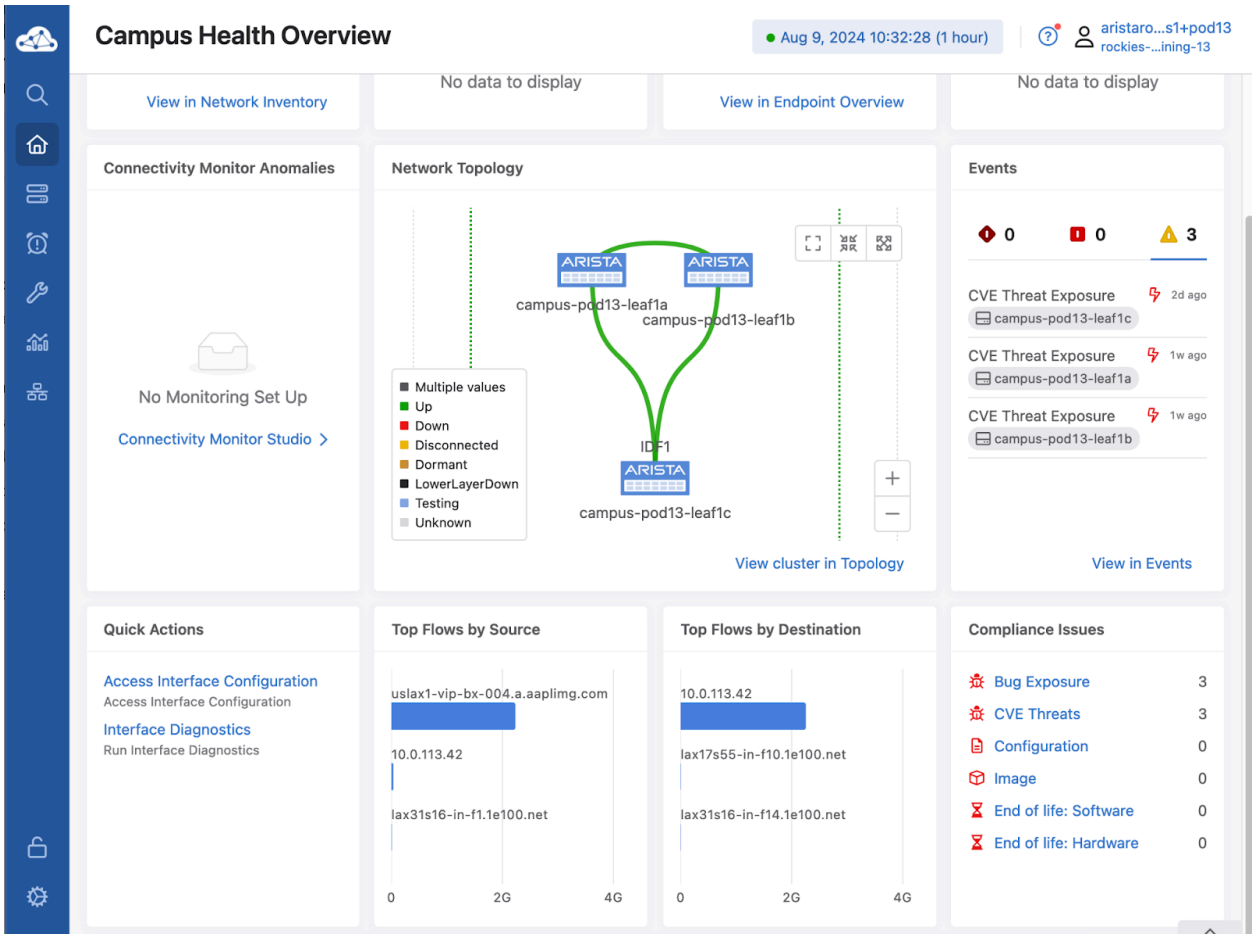
1. in the "**Organization**" box enter the Organization name "**rockies-training-##**" where **##** is a 2 digit character between 01-20 that was assigned to your lab/Pod, then click "**Enter**".



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



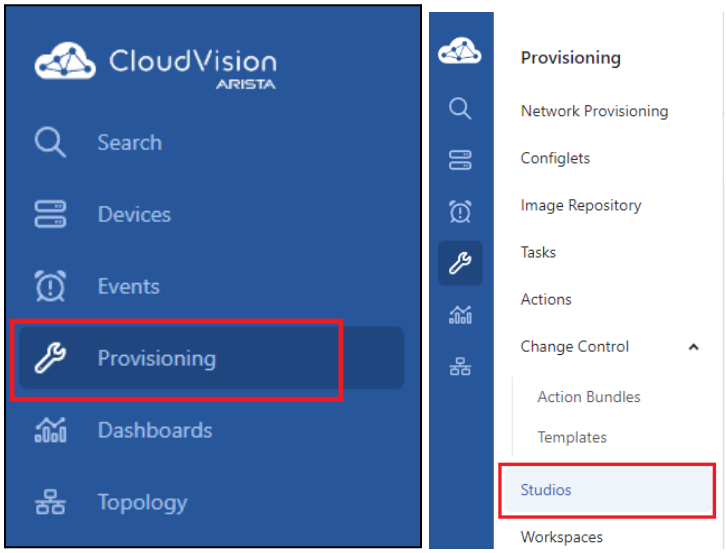
3. You will now be logged into CloudVision



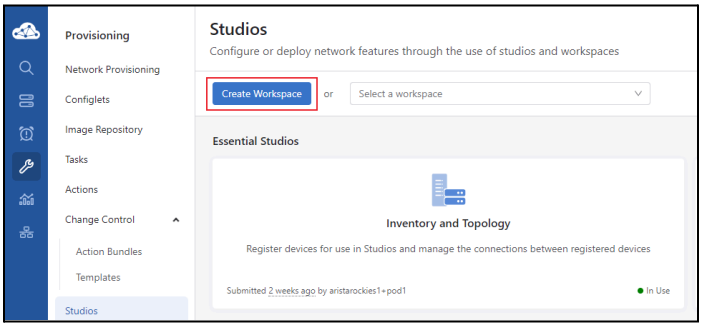
2. Onboarding a new device into Studios

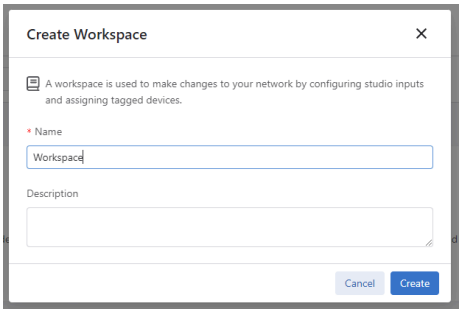
In this lab you will be configuring the switches through CloudVision Studios. Today you will be adding a Member Leaf Switch to an existing Campus Fabric/POD.

1. Login to CloudVision, then click on the **Provisioning** menu option, then choose **Studios**.



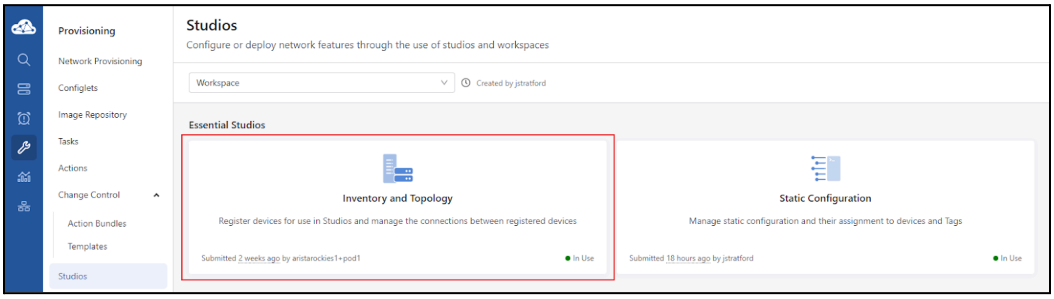
2. Create a workspace to propose changes to the Network Infrastructure. A workspace acts as a sandbox where you can stage your configuration changes before deploying them.
    a. Click **Create a Workspace**, give it any name you would like and click **Create**.



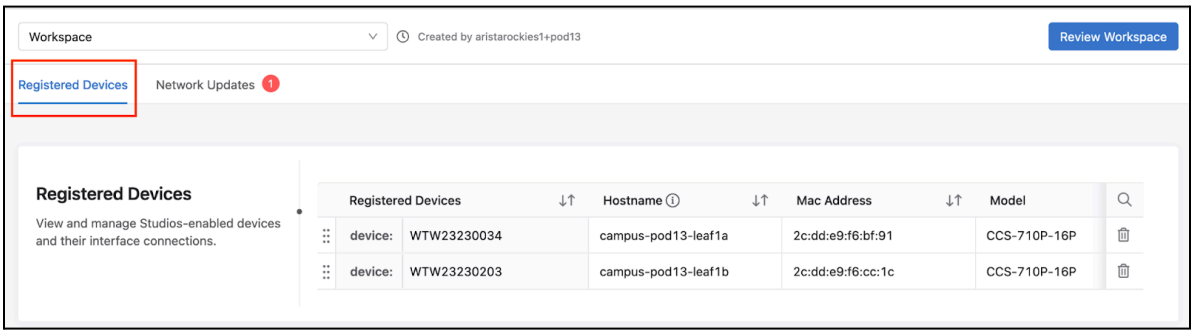


3. Import devices that have been onboarded to CloudVision into the Studio environment. By default, devices in your inventory are not a part of CloudVision Studios

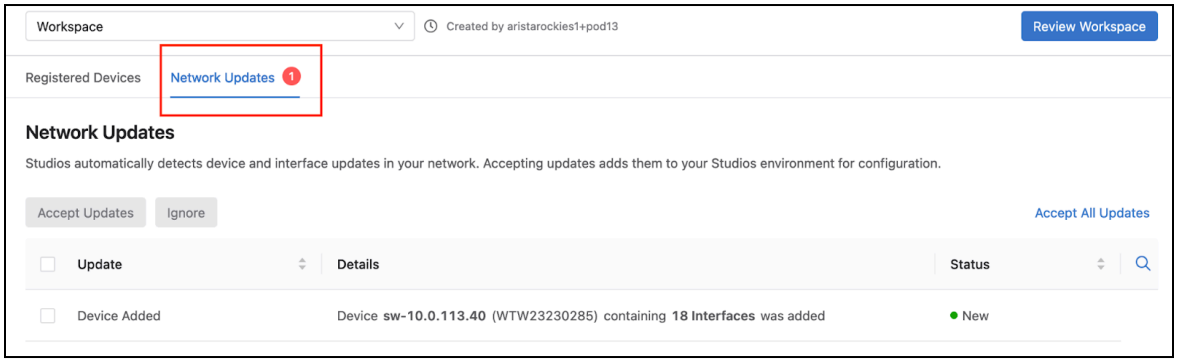
   a. Click to Launch the **Inventory and Topology** Studio under Essential Studios



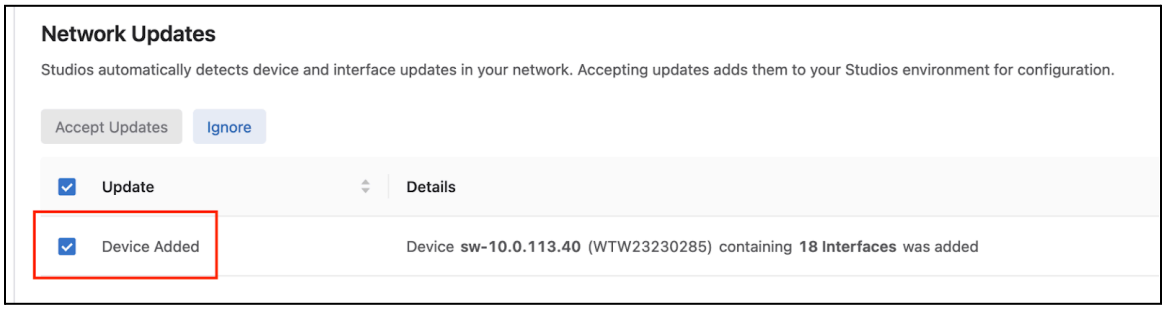
   b. Review current Registered Devices, notice that there are currently only two switches listed



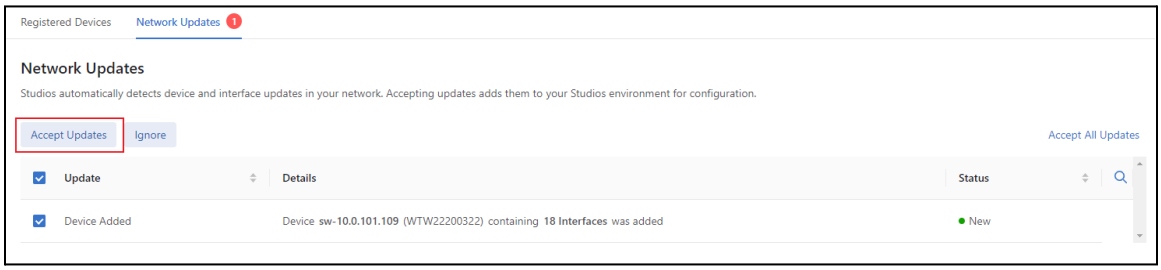
   c. Click **Network Updates**



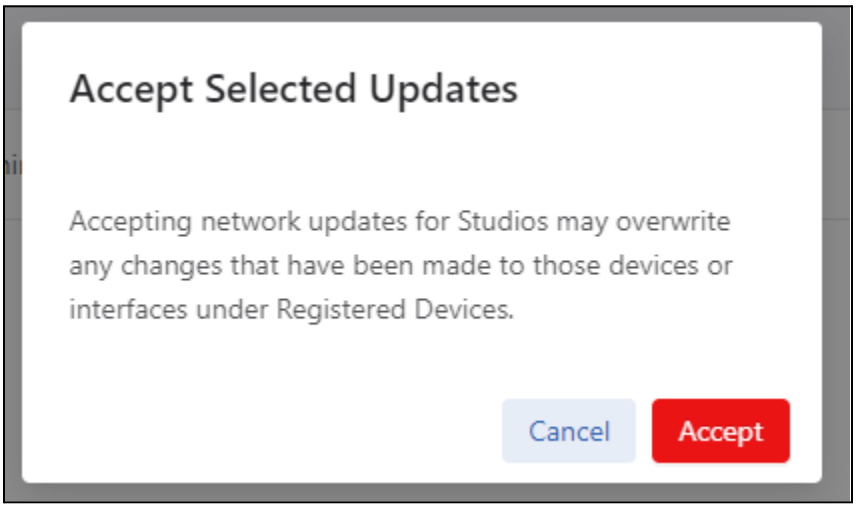
d. Check the box next to the new switch



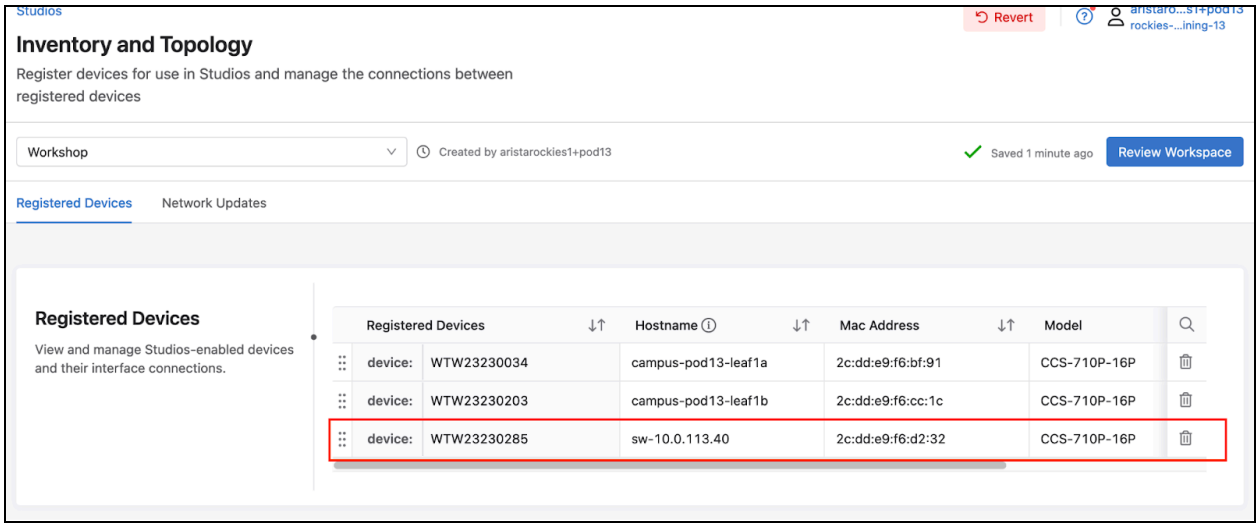
e. Click **Accept Updates**



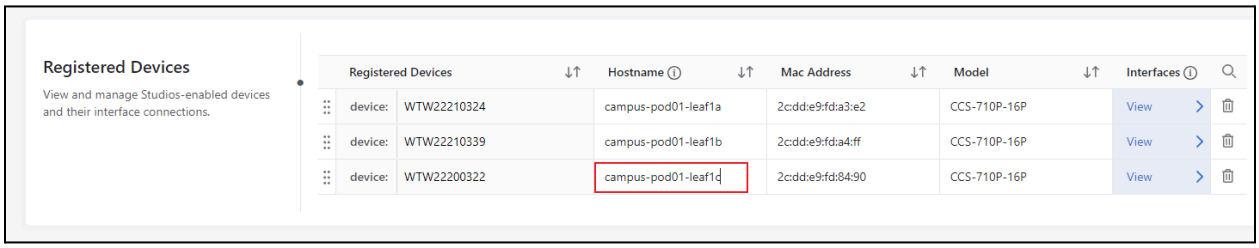
f. Click **Accept** on the pop-up



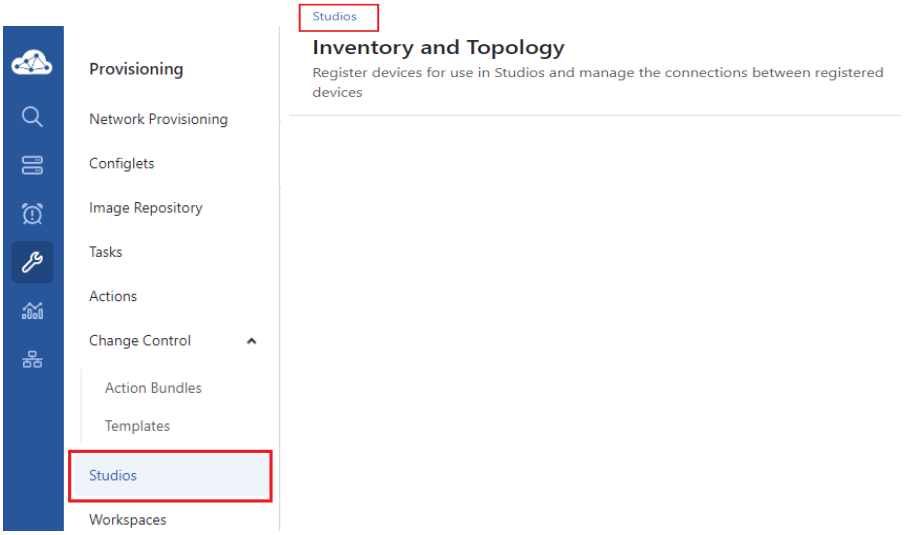
g. Click on **registered devices** again to see that the new device is now in the list



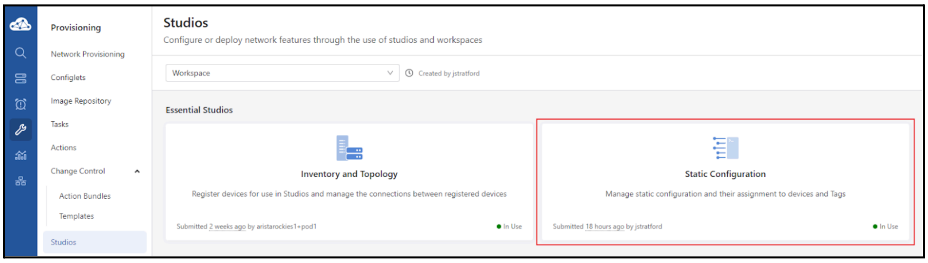
h. Click on the "**Hostname**" box for the new device and name it "**campus-pod<XX>-leaf1c**", where ## is a 2 digit character between 01-20 that was assigned to your lab/Pod.



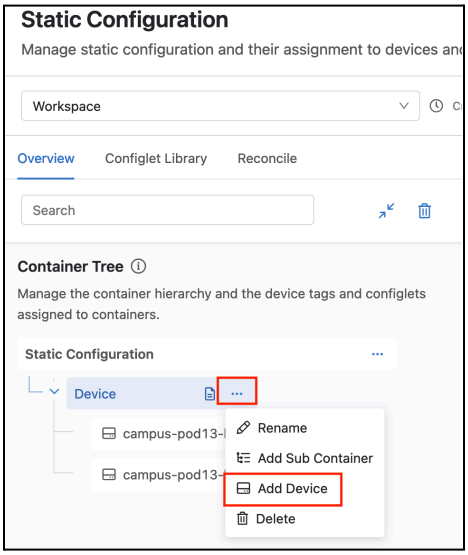
4. Apply a baseline configuration to the newly added switch using the Static Configuration Studio
   a. Click **Studios** at the Top OR Left side navigation pane



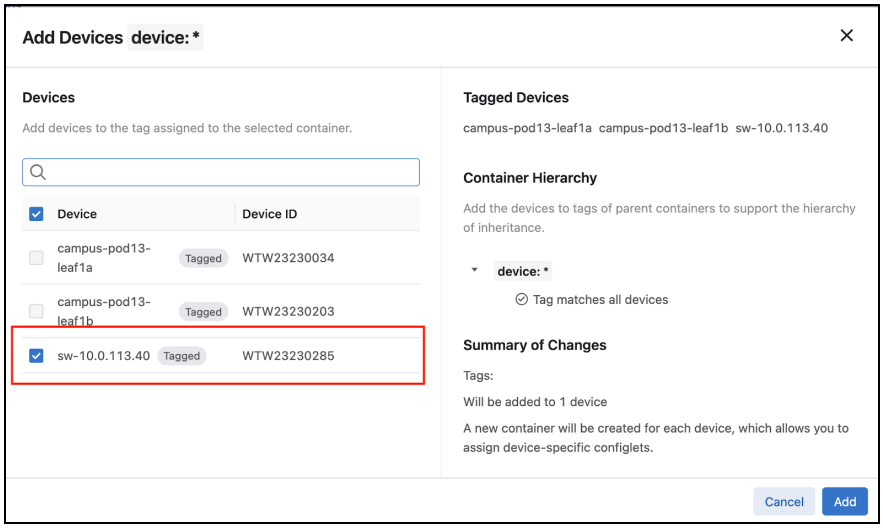
b. Launch the Static Configuration Studios



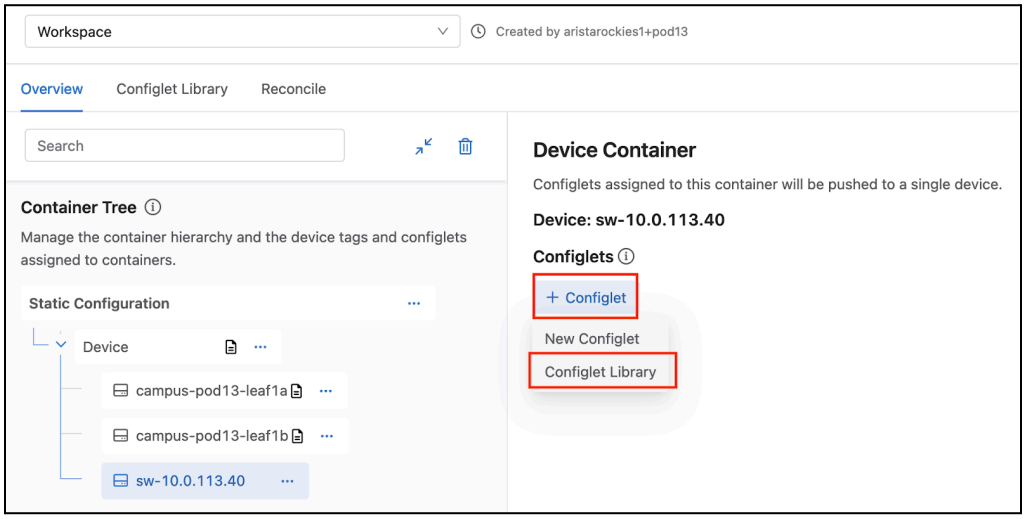
c. Add a device to the Container Tree by clicking on the three dots next to “Device” and selecting **Add Device**



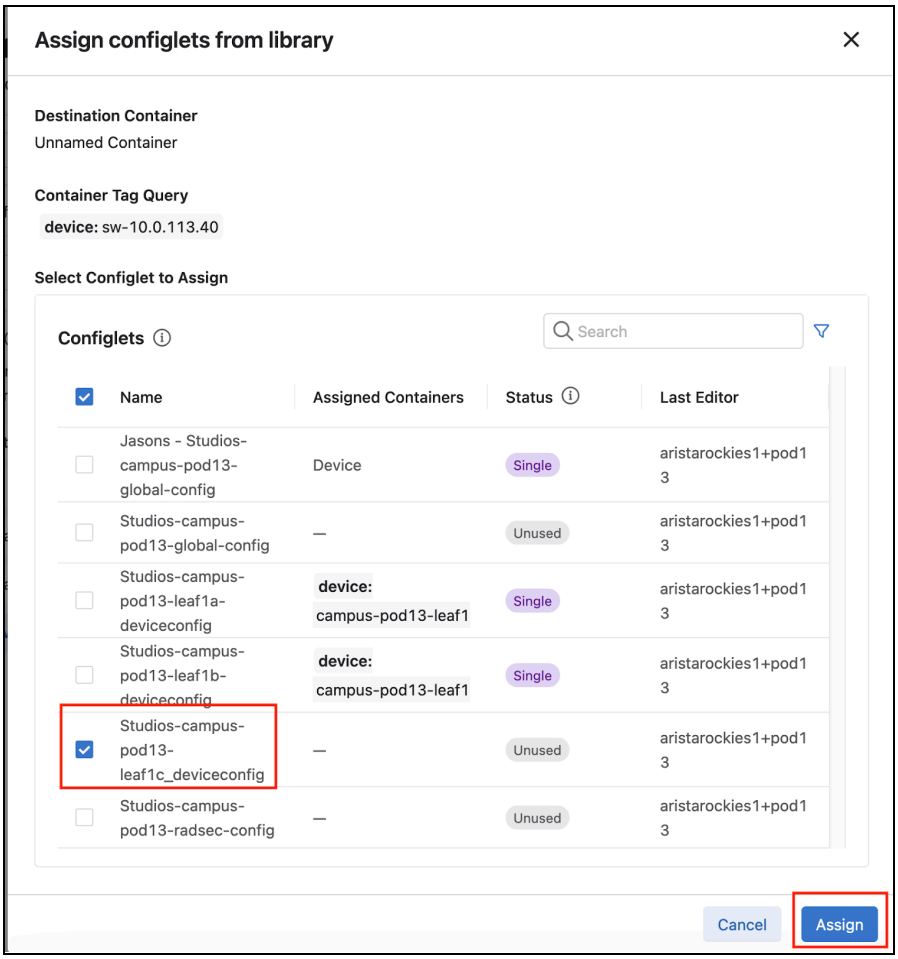
d. Select the newly added switch and click **Add**



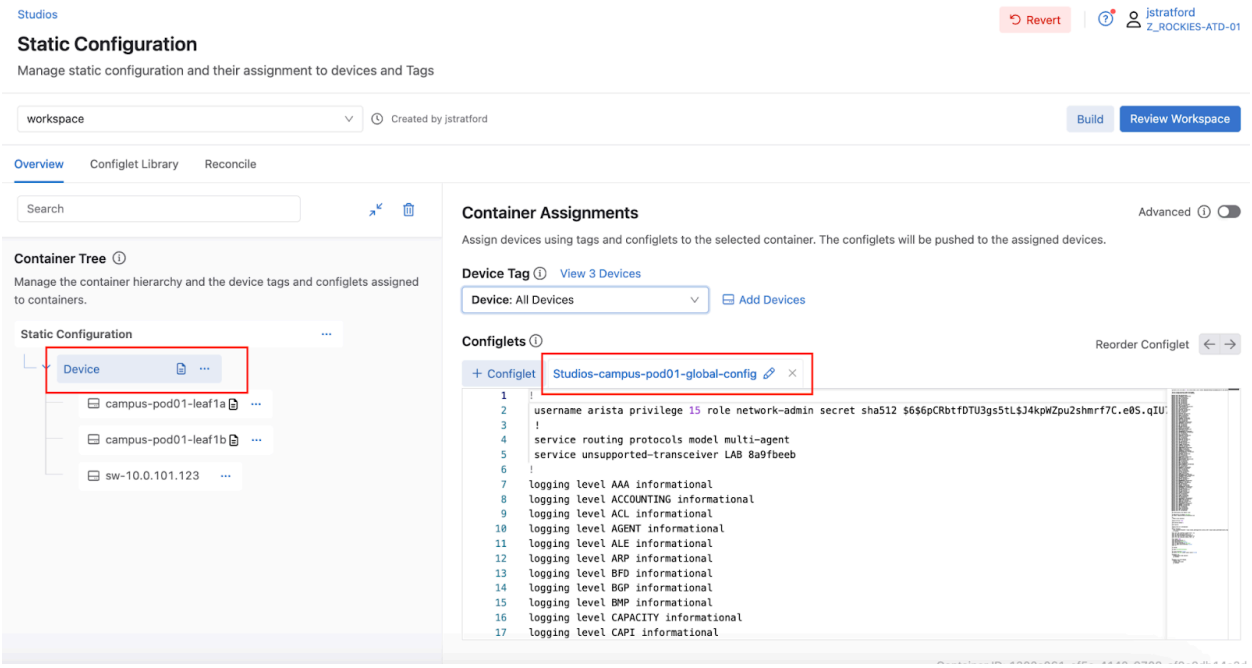
e. Click **+ Configlet** followed by **Configlet Library** to add a static configlet to the new switch.



f. Select the configlet named **Studios-campus-pod<##>-leaf1c-deviceconfig** and click **Assign**



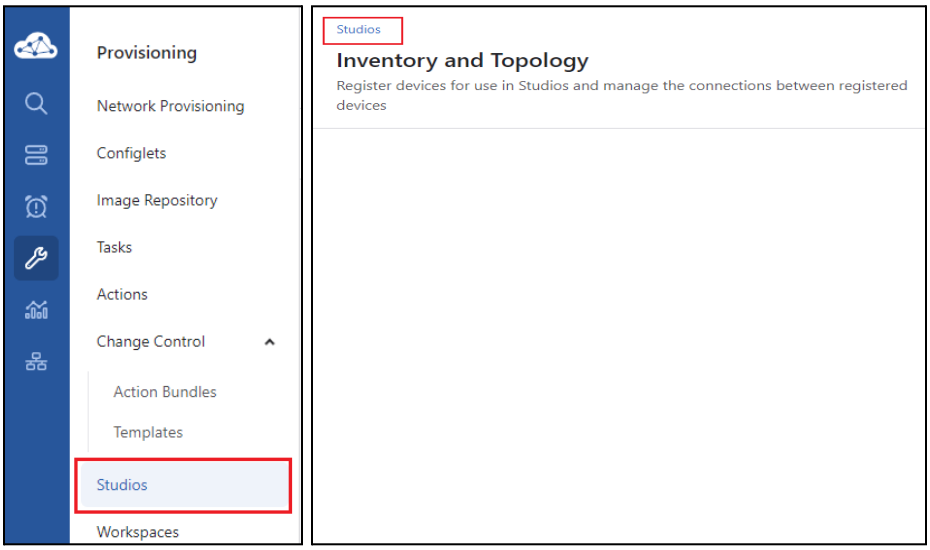
g. Review the configlets assigned and applied to the other containers and devices in the static configuration screen. You will see that on the **Device** container there is a global config applied for basic configuration shared on all devices, while device specific configuration is applied only to that device.



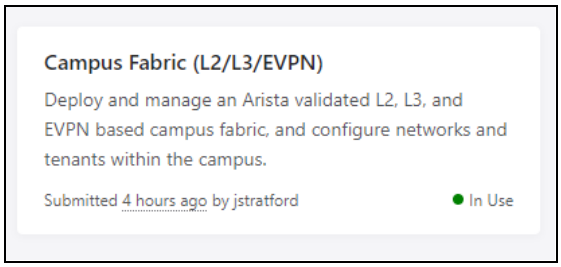
3. Modifying the Campus Fabric to Add a Switch

1. Build the remaining configuration necessary to deploy the new switch. You will use the Campus Fabric (L2/L3/EVPN) Studio to add this switch to an existing Campus Fabric

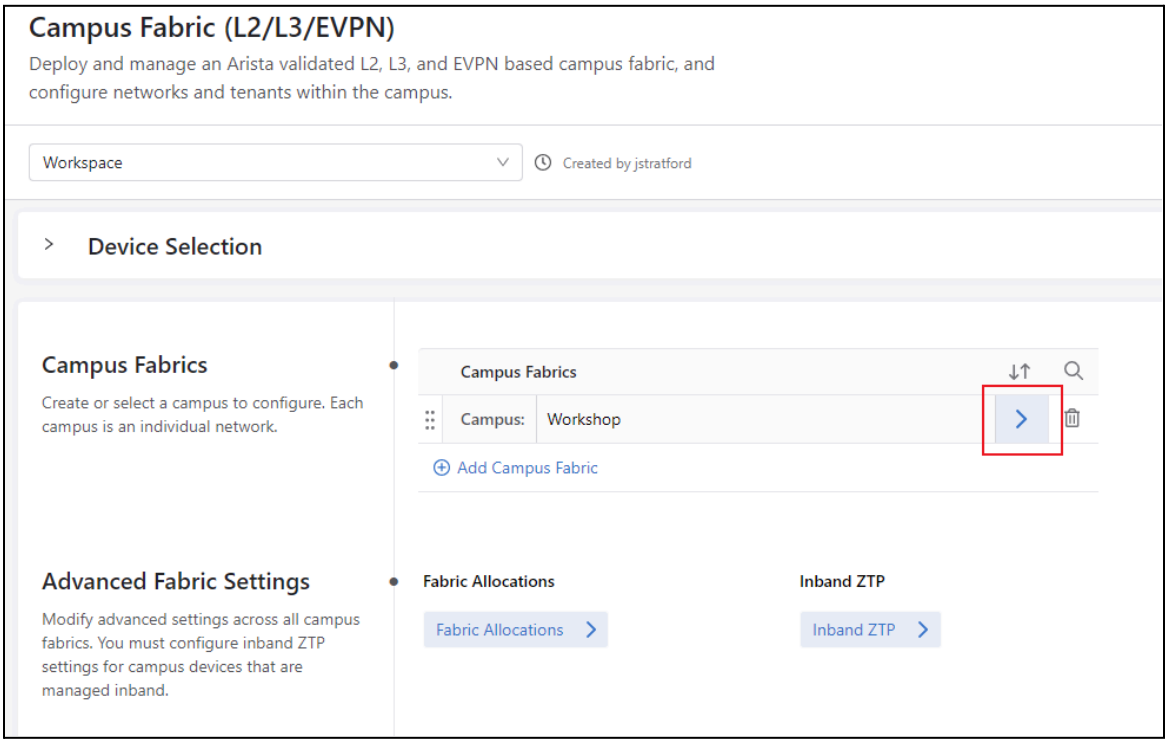
    a. Click **Studios** at the top OR left side navigation pane



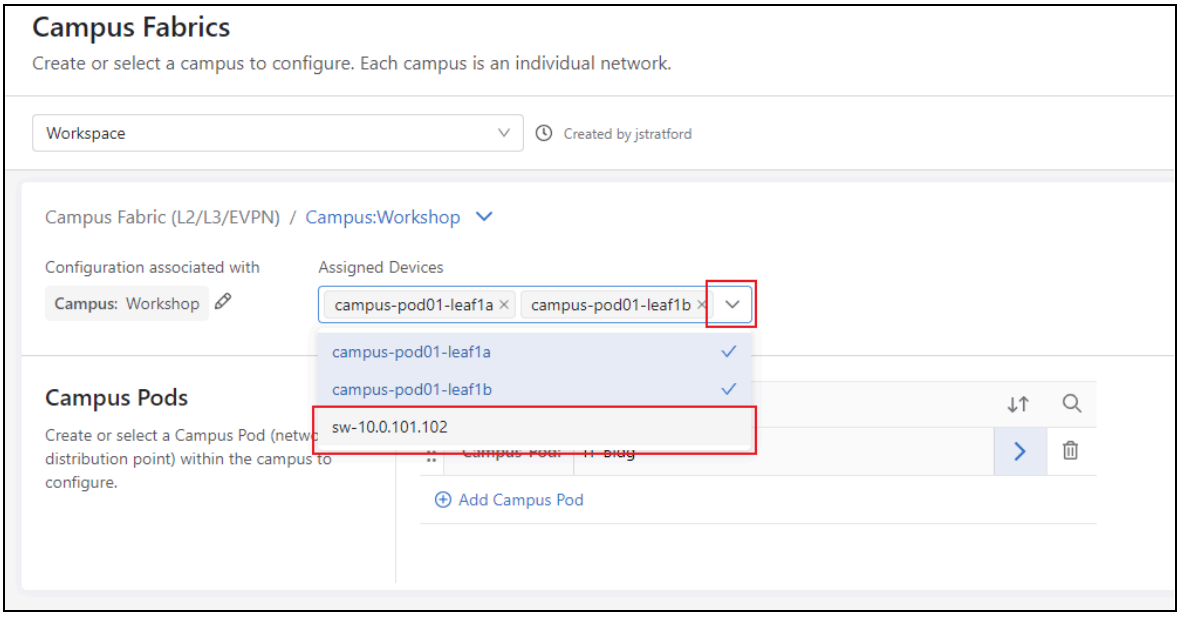
    b. Click to Launch the **Campus Fabric (L2/L3/EVPN)** Studio



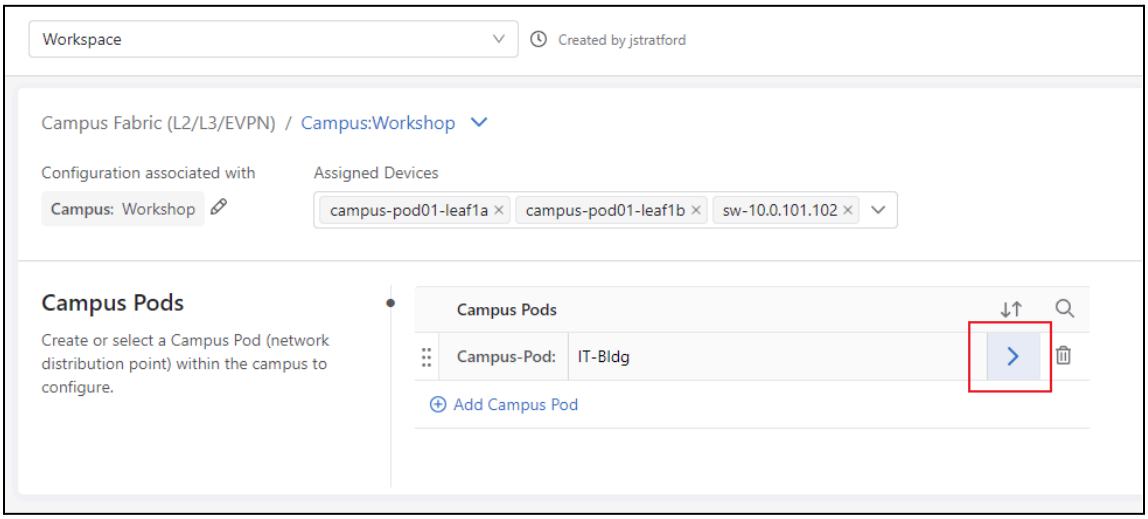
c. Click the arrow that is to the right of the Campus Fabric named **Workshop**



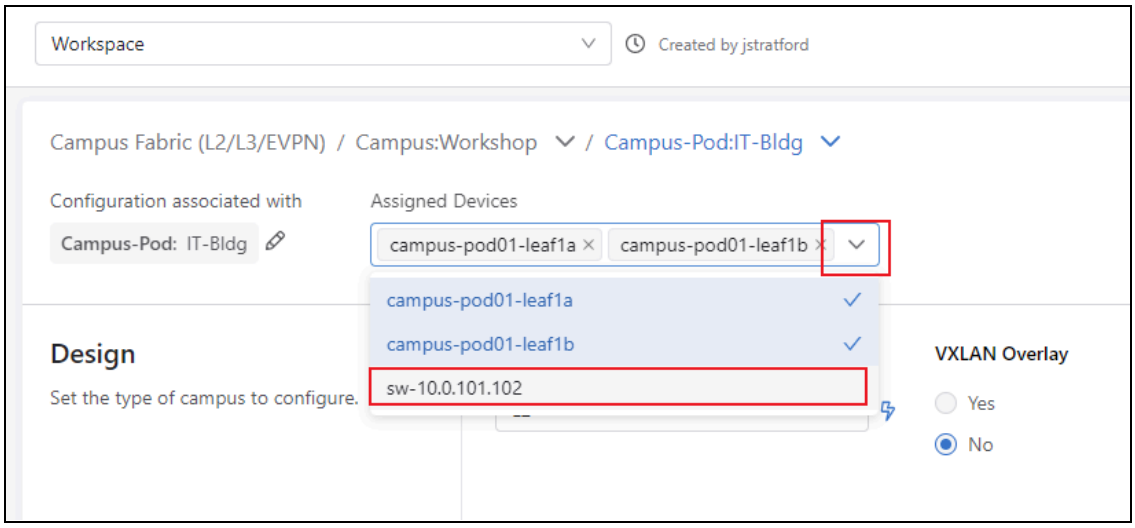
d. Assign the new device to the Campus Pod by clicking the arrow below **Assigned Devices** and selecting the new device



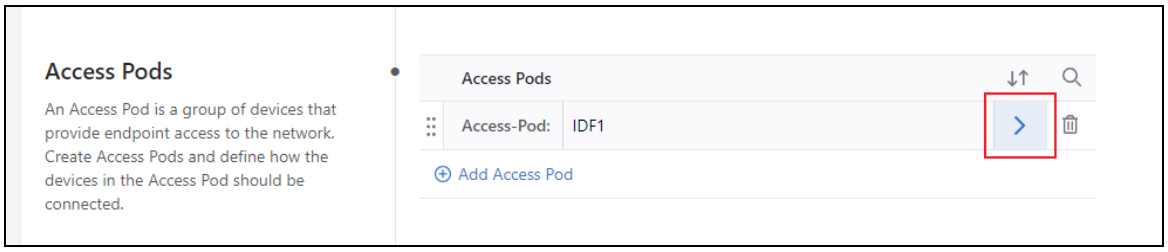
e. Click the arrow that is to the right of the Campus Pod named **IT-Bldg**.



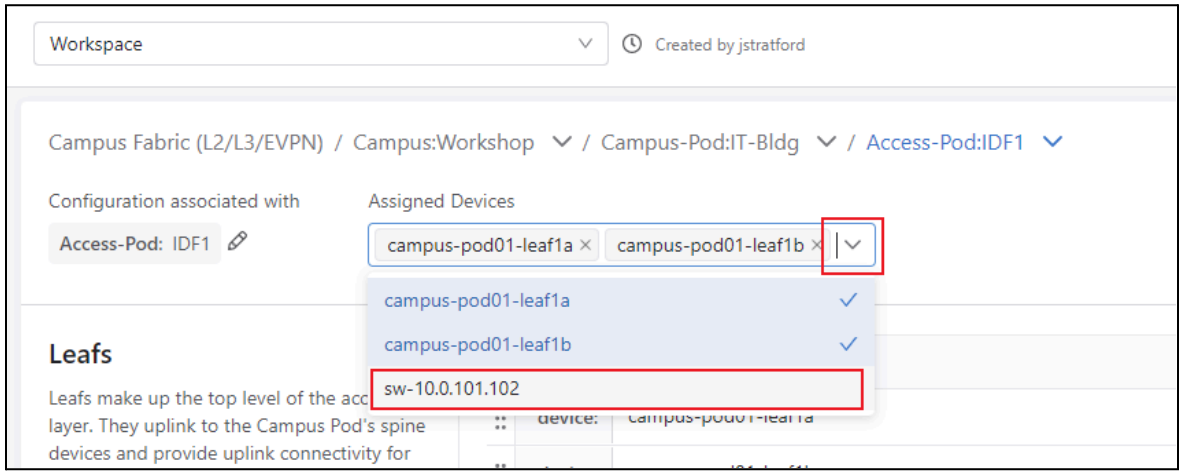
f. Repeat the previous step to add the new device to the Campus POD by clicking the arrow below **Assigned Devices** and selecting the new device



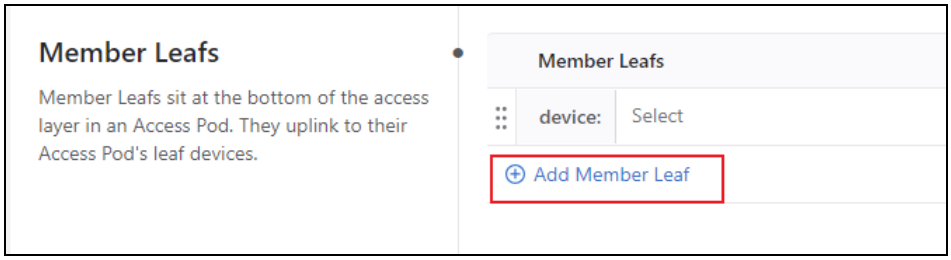
g. Scroll down to Access Pods and Click the arrow that is to the right of the Access Pod named **IDF1**



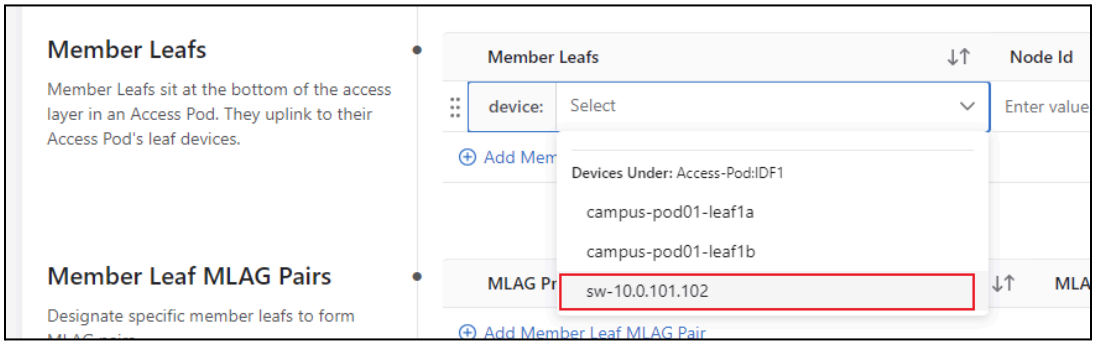
h. Repeat the previous step to add the new device to the Access Pod by clicking the arrow below **Assigned Devices** and selecting the new device



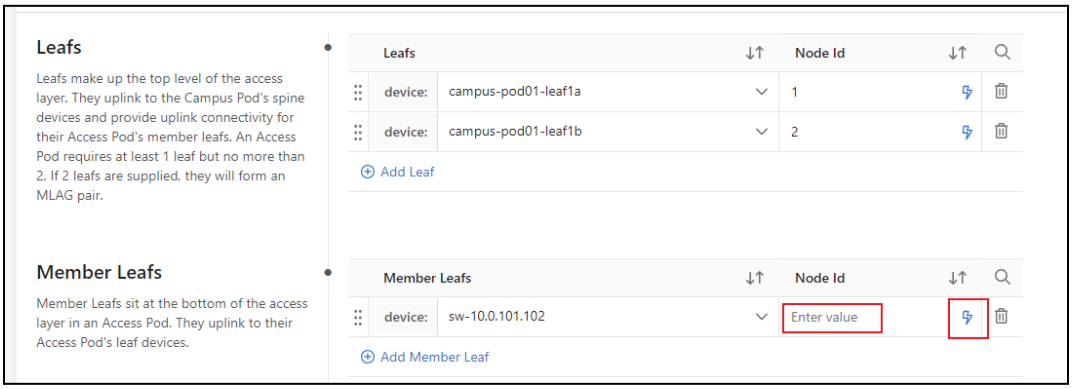
i. Scroll down to Member Leafs and Click **Add Member Leaf**



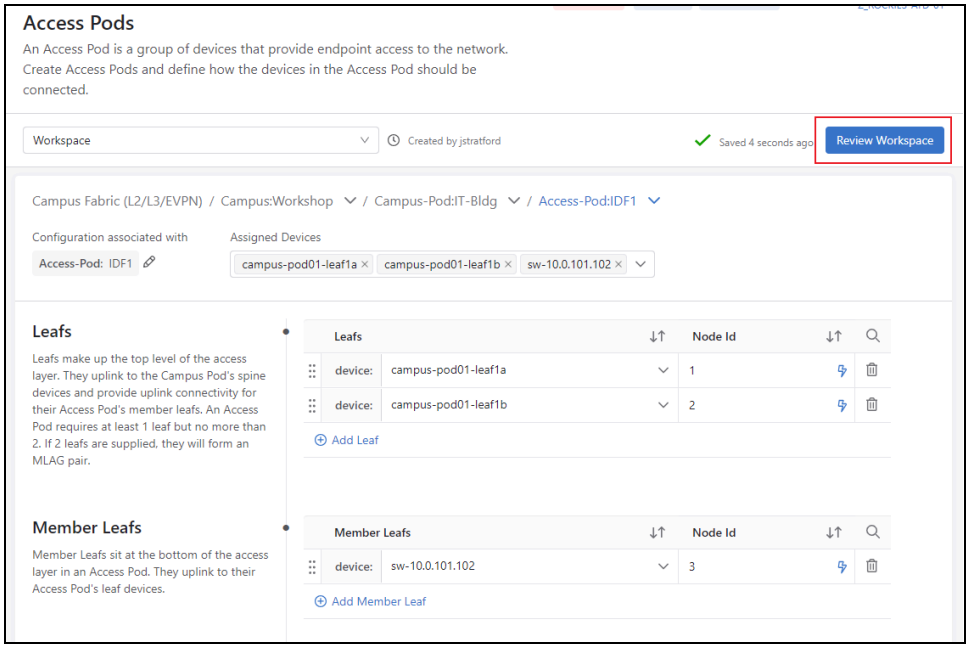
j. Click **Select** to add the new device as a Member Leaf



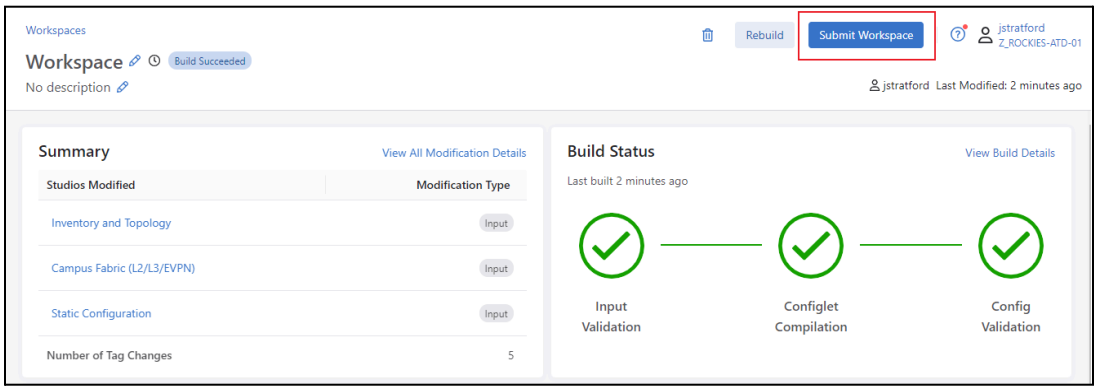
k. Click the blue lightning bolt to auto assign a Node Id. After a few moments a number will appear in the Node Id column. Alternatively, you can type in the number “3”



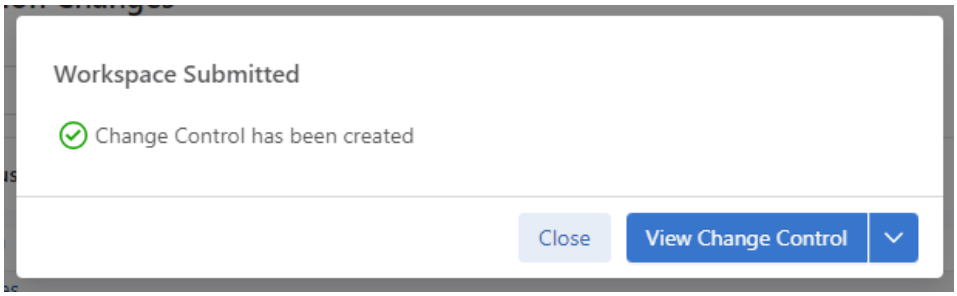
l. Click **Review Workspace** to review all the changes proposed to the CloudVision Studio



2. Review and Submit the Workspace
    a. Review the workspace details showing the summary of modified studios, the build status, and the proposed configuration changes for each device.
    b. Click **Submit Workspace**

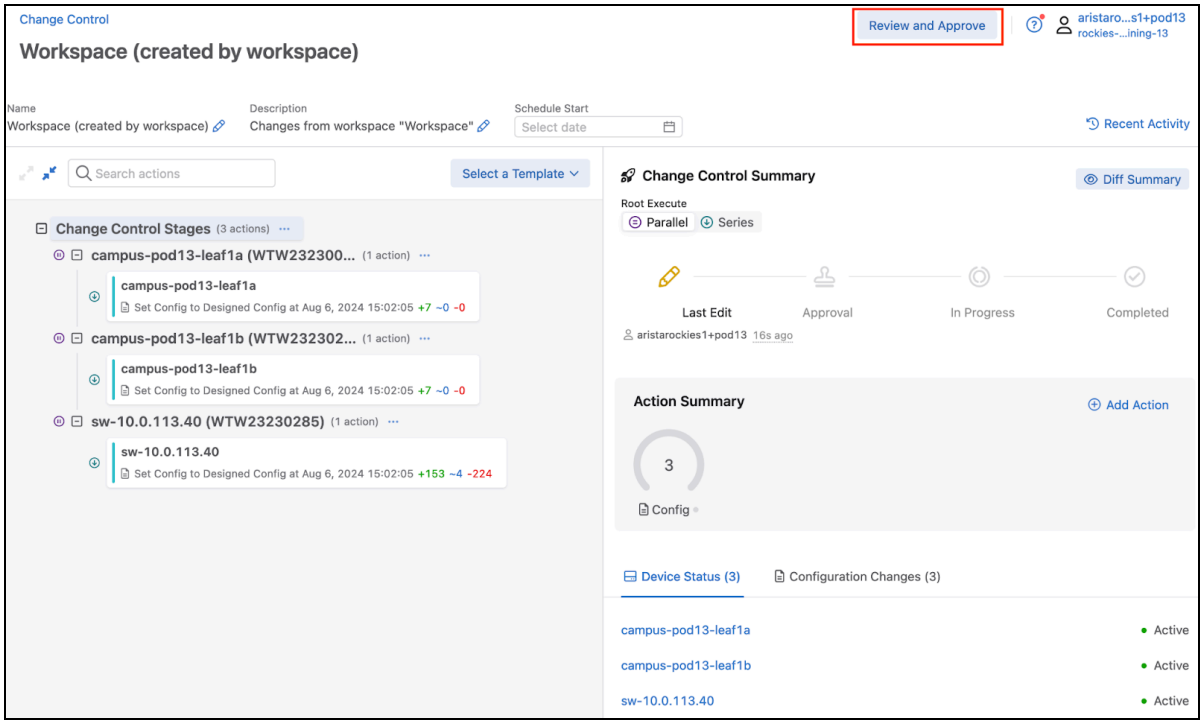


    c. Click **View Change Control**



4. Commit and Execute Change Control

1. Review, Approve and Execute the Change Control to apply the configuration changes
    a. Click **Review and Approve**



b. Select **Execute immediately** and click **Approve and Execute**

2. The change control will execute and apply all the proposed configuration changes to the devices. The newly added device will be reloaded as it exits zerotouch provisioning (ZTP) mode and boots up with the designed configuration