Deployment of CX switches with Aruba Central

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1.1 Revision History

DATE	VERSION	EDITOR	CHANGES
15 Jan 2021	0.1	Ariya Parsamanesh	Initial version
20 Jan 2021	0.2	Ariya Parsamanesh	Added the core switches

2.1 Introduction

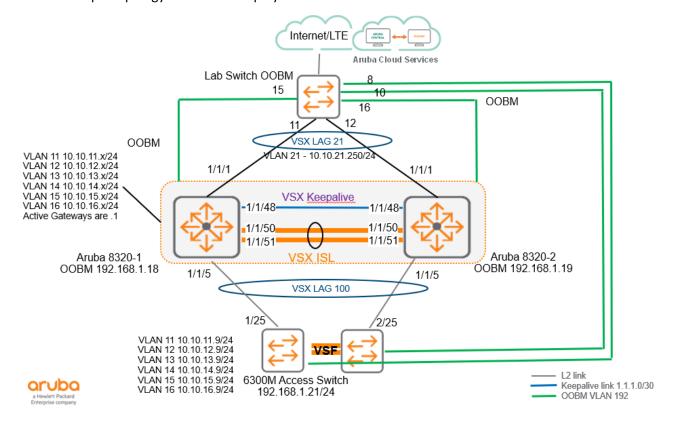
The aim of this short guide is to use the CX App to configure two 6300 switches in VSF and then use Aruba Central to further configure and manage them along with dual 832X core switches in VSX formation.

Our CX switches are using 10.05.0020 but the minimum version required to be managed by Aruba Central is 10.04.0020.

The CX switches are connected to the network through their out of band mgmt. interfaces.

2.2 Topology

Here is a simple topology that will be deployed.



2.3 Factory Default

The first task is to ensure the switch is in a factory default state.

Build SHA : 3cbfcce609617b0cf84a6b941a2b36c43dfeb2cb
Active Image : secondary

Service OS Version : FL.01.07.0002

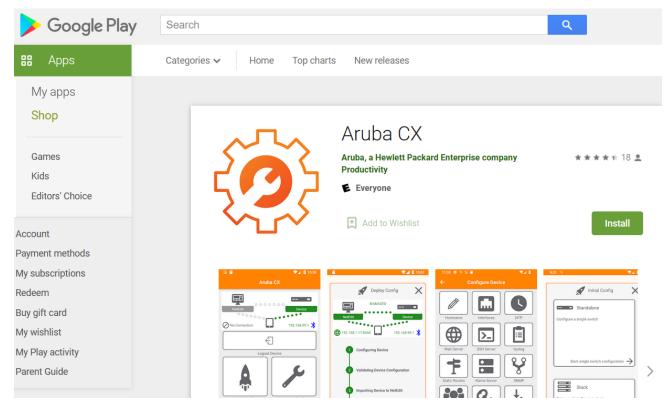
BIOS Version : FL.01.0002
6300-1#
6300-1# erase all zeroize
This will securely erase all customer data and reset the switch to factory defaults. This will initiate a reboot and render the switch unavailable until the zeroization is complete.

This should take several minutes to one hour to complete.
Continue (y/n)? y
The system is going down for zeroization.
6300-1#

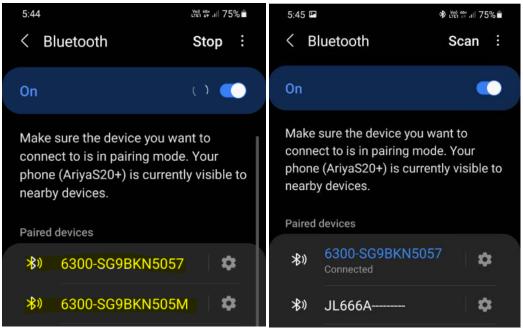
Once the switches have rebooted, you'll just connected them with the 2x stack DAC cables.

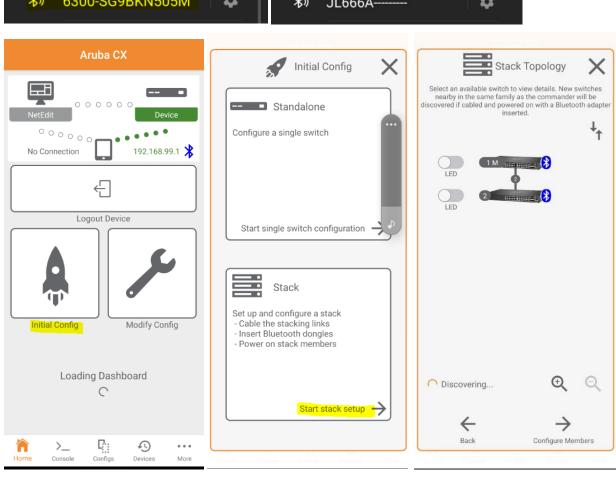
2.4 CX App Configuration

You can download the CX App from Google Play, the CX App version we are using here is 2.3.1



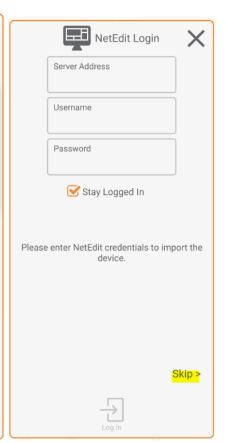
Once you have installed it ensure that the blue tooth and GPS are enabled and then try to connect to the switches. Here are the relevant screenshots on an android phone.

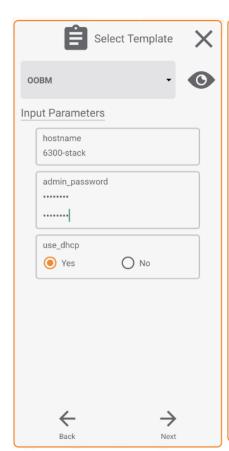




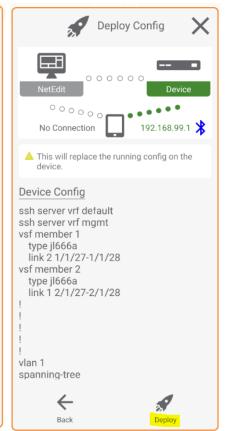


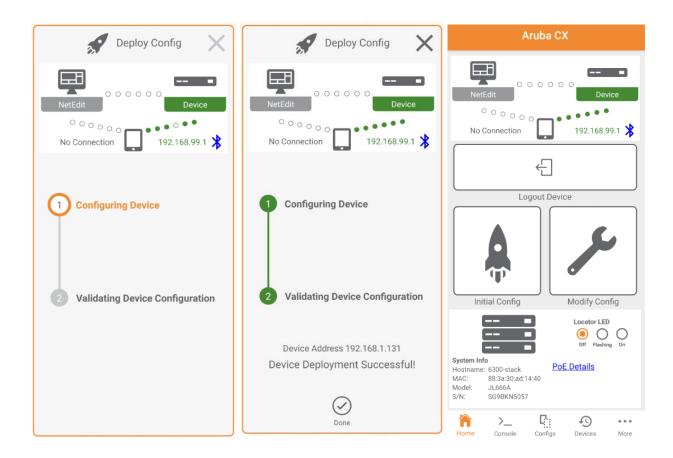








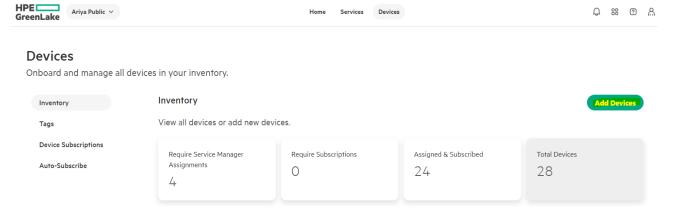


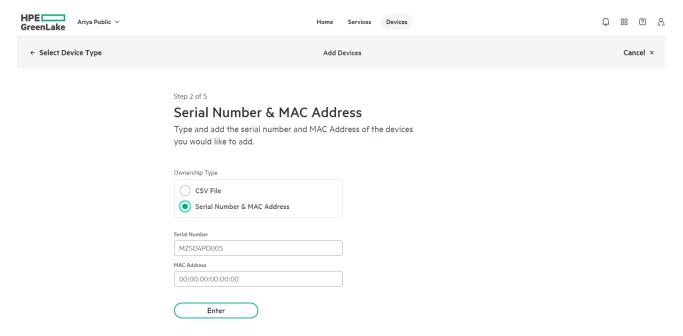


At this point the CX stack will use the mgmt. interface and if the DHCP services are available on that network, it will contact and register with Aruba Central.

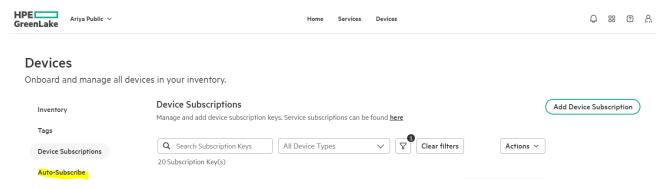
2.5 Aruba Central Initial Onboarding

You need to add the serial number and the MAC addresses of the CX switches to the HPE GreenLake inventory and once subscribe them. The following screen shot is showing that we have added the devices.

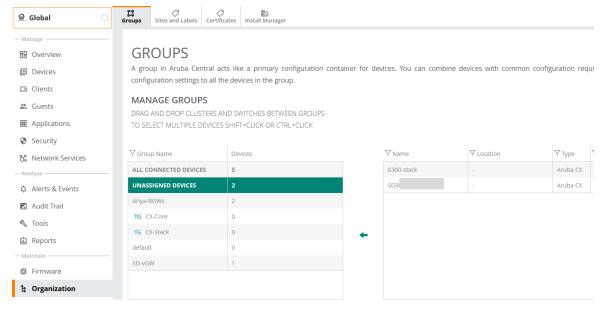




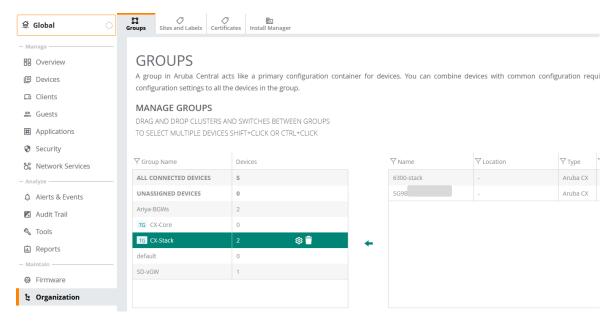
Then you need to ensure these switches are also subscribed manually or use auto-subscription.



Once this is done and the CX switches are configured to be in a stack using CX App, they will contact Aruba Central and will end up in the un-provision group.

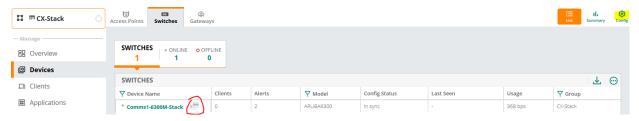


And now we'll move them into the CX-stack group.

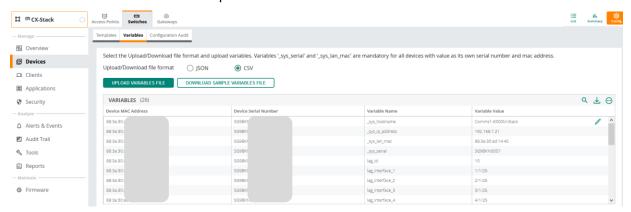


2.6 Aruba Central Template groups

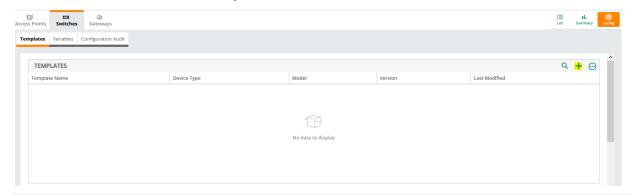
So now when the switches are powered on again you should see a stack



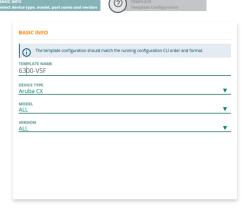
We then create the variables and upload it.



After that we have to create the template.



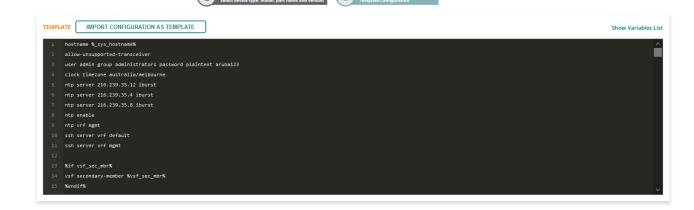
ADD TEMPLATE X



CANCEL EDIT TEMPLATE

CANCEL

PLATE



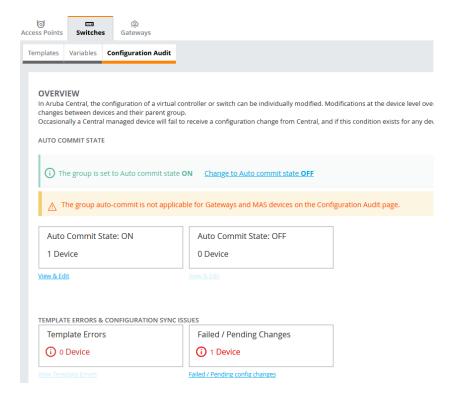
As soon as you save the template Aruba Central will try to push it to the switches in that group.

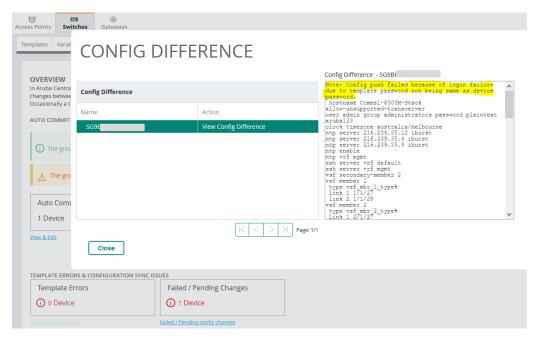


Here is the sample where the push has failed.

BACK NEXT

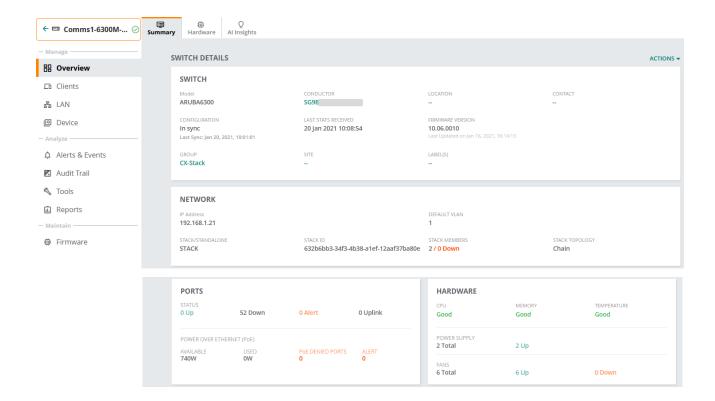
BACK SAVE



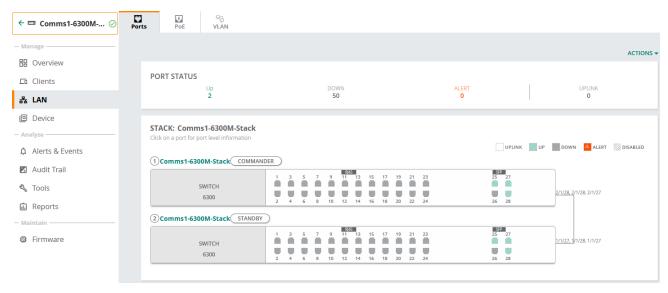


2.7 Aruba Central Monitoring

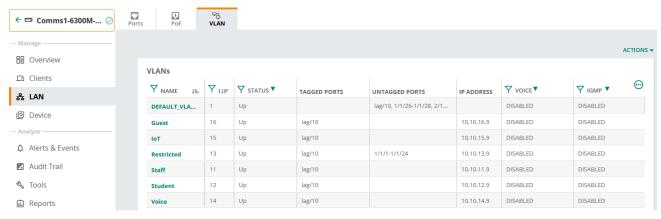
Once you are finished with the configuration, you can view the stack from the monitoring section.



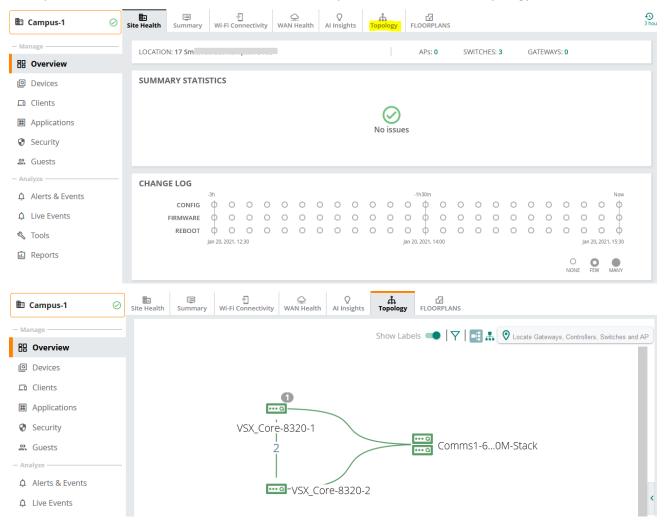
Here is the Port view for the stack.



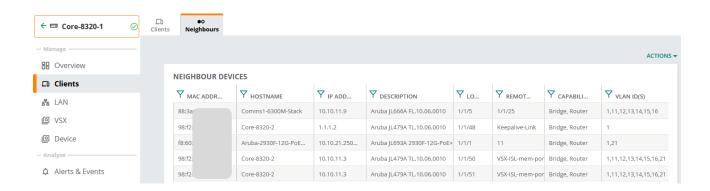
And the VLAN view



Once you create a site and add the switches to it, then you could also view the topology



And here is the neighbor table.

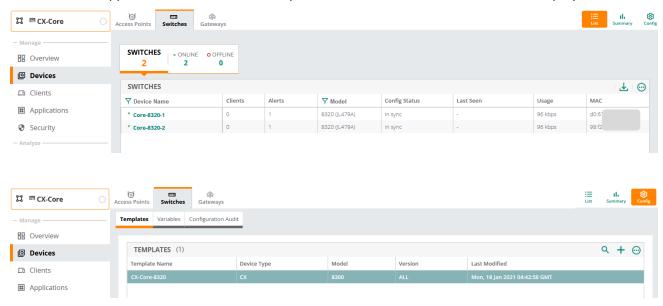


3 832X Configuration

As with the 6300 switches, you need to add the 832X switches to the inventory and then add it to a template based group.

3.1 Aruba Central Template

Please refer to Appendix, for the details of template and variables that were used in this deployment.



Here is the device view of Core-1 switch.

