Deploy Arista CloudEOS with Equinix Bare Metal

Goal

In this deployment guide, we will show you how to deploy Arista CloudEOS Router in Equinix Bare Metal, with the following high-level tasks.

- Deploy an Equinix Bare Metal Server
- Deploy an Arista CloudEOS Router on ESXI and bring online

For more information about the Arista CloudEOS Router, see here and Arista CloudVision, see here. For more information about Equinix Bare Metal, see here.

Deployment Diagram

In the following diagram, we will focus on creating one of the Equinix Servers. We will deploy US-West and choose Dallas for its location.

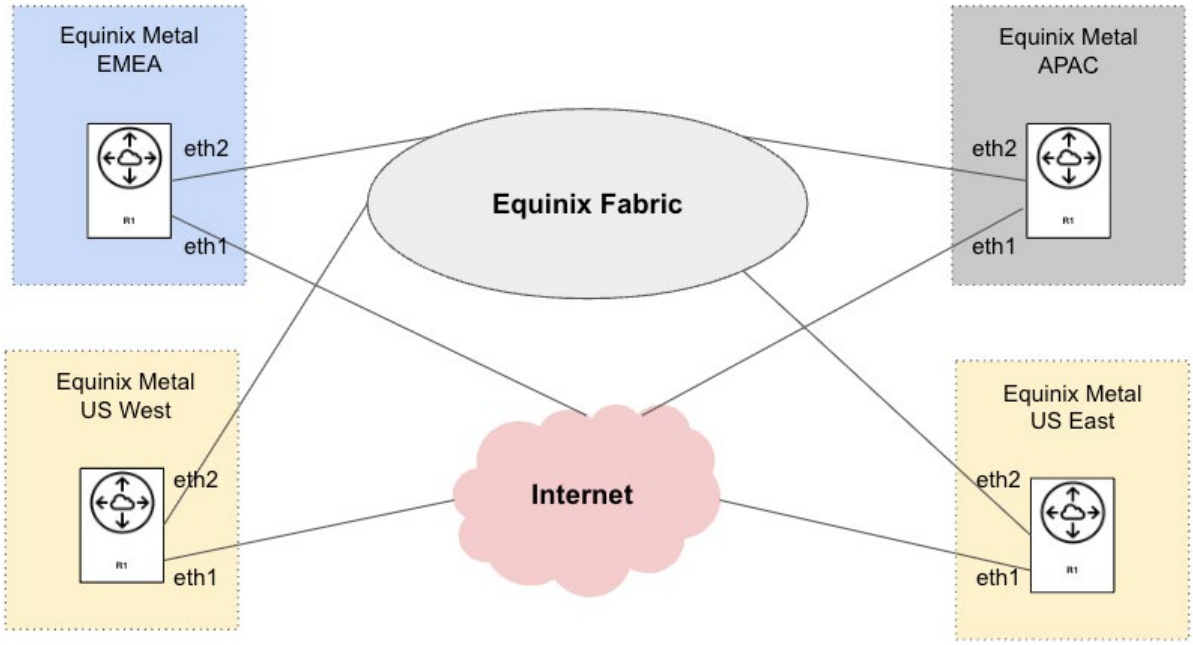
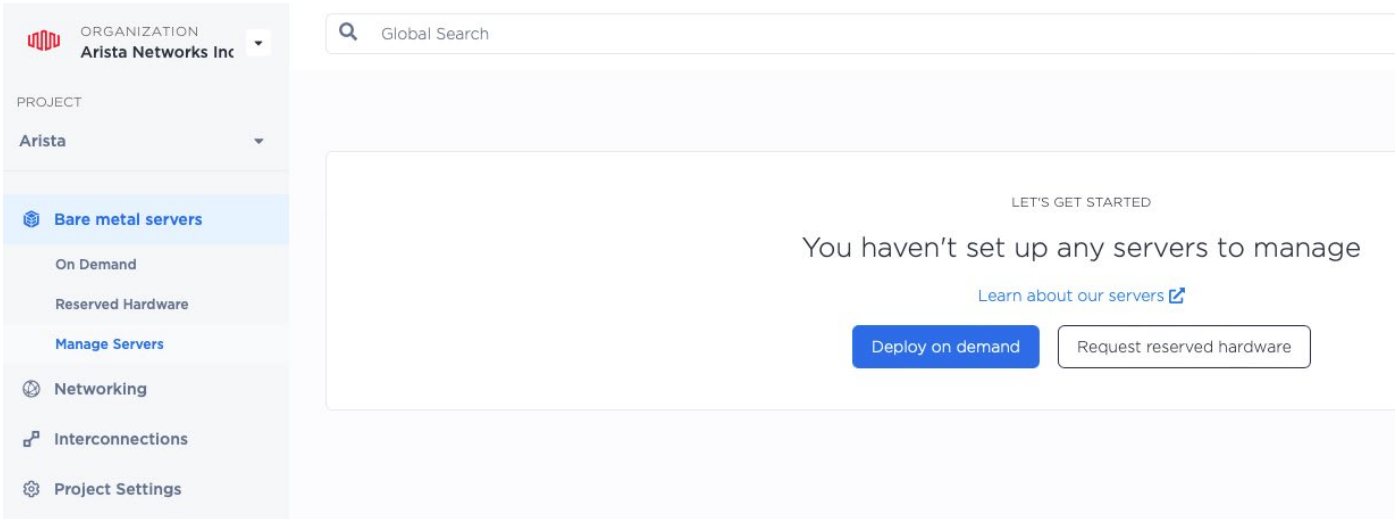


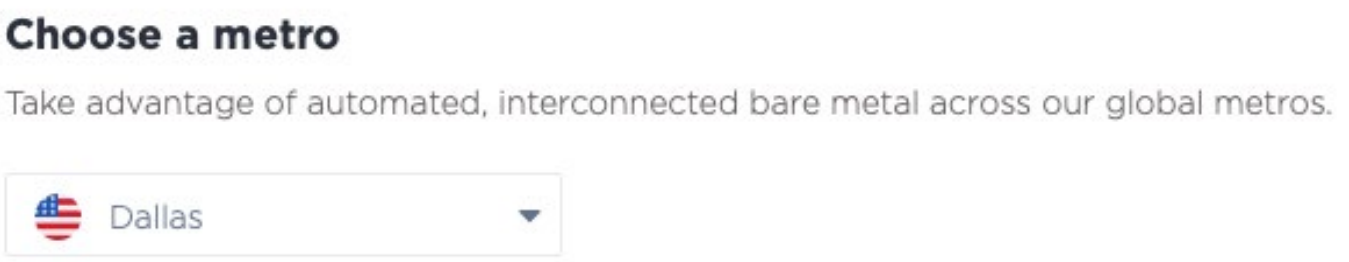
Figure 1: CloudEOS with Equinix Bare Metal spanning the globe, allowing optimal performance and a quick deployment.

Deployment Diagram

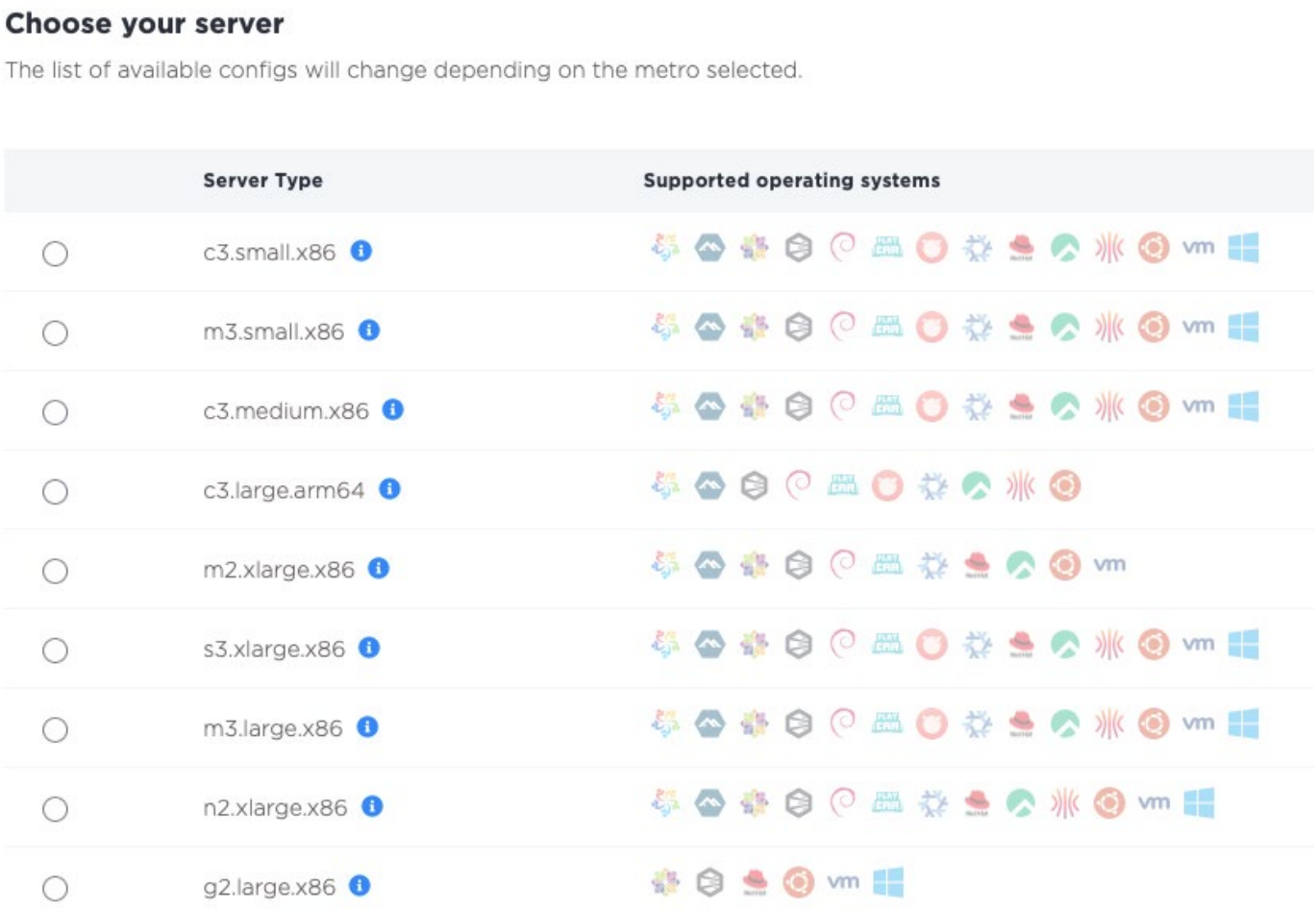
1. In Equinix's Metal Console, select "Bare metal servers" and then "Deploy on demand"



2. Select the Metro Region from the drop down list of available areas.

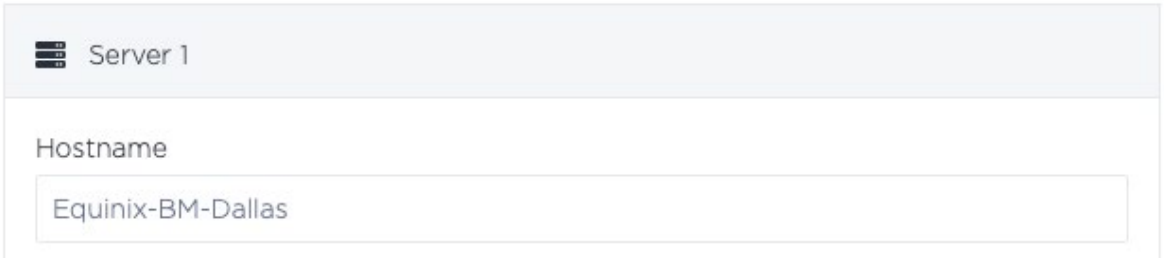


3. Select the desired server size, from available server options within the metro area.

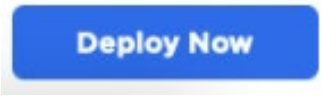


4. Select VMware ESXI.

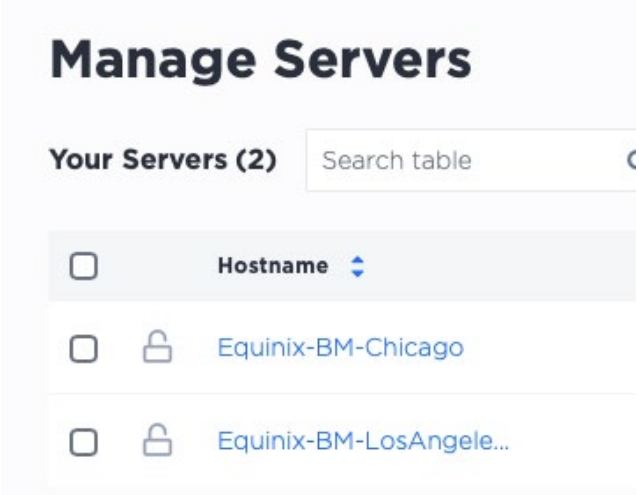
5. Enter the Equinix Bare Metal Server name.



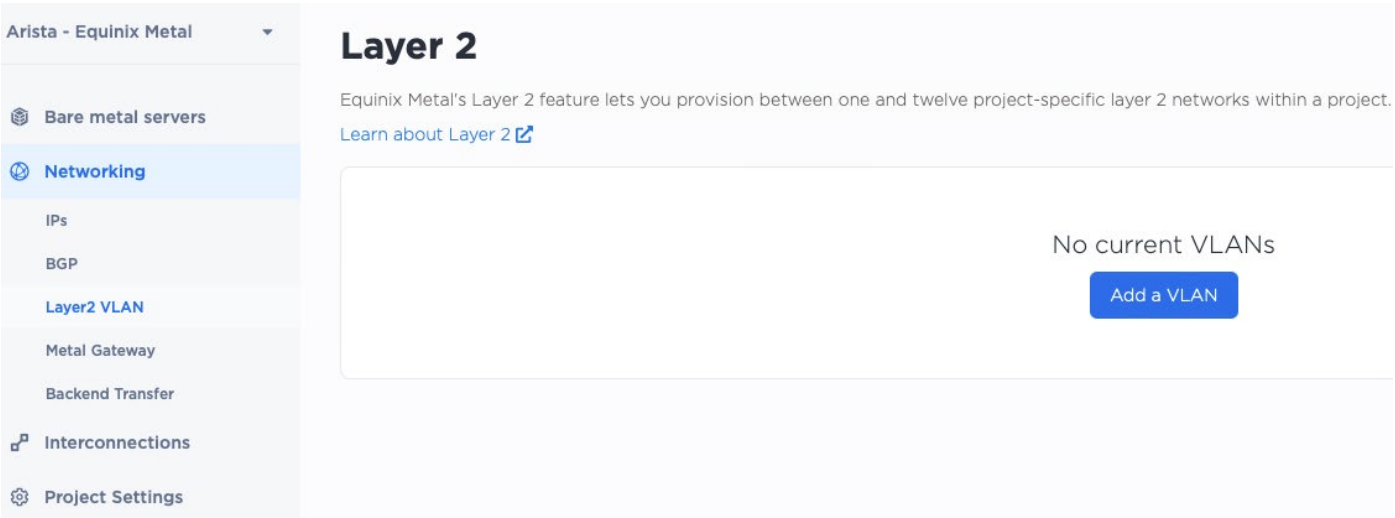
6. Select Deploy Now at the bottom.



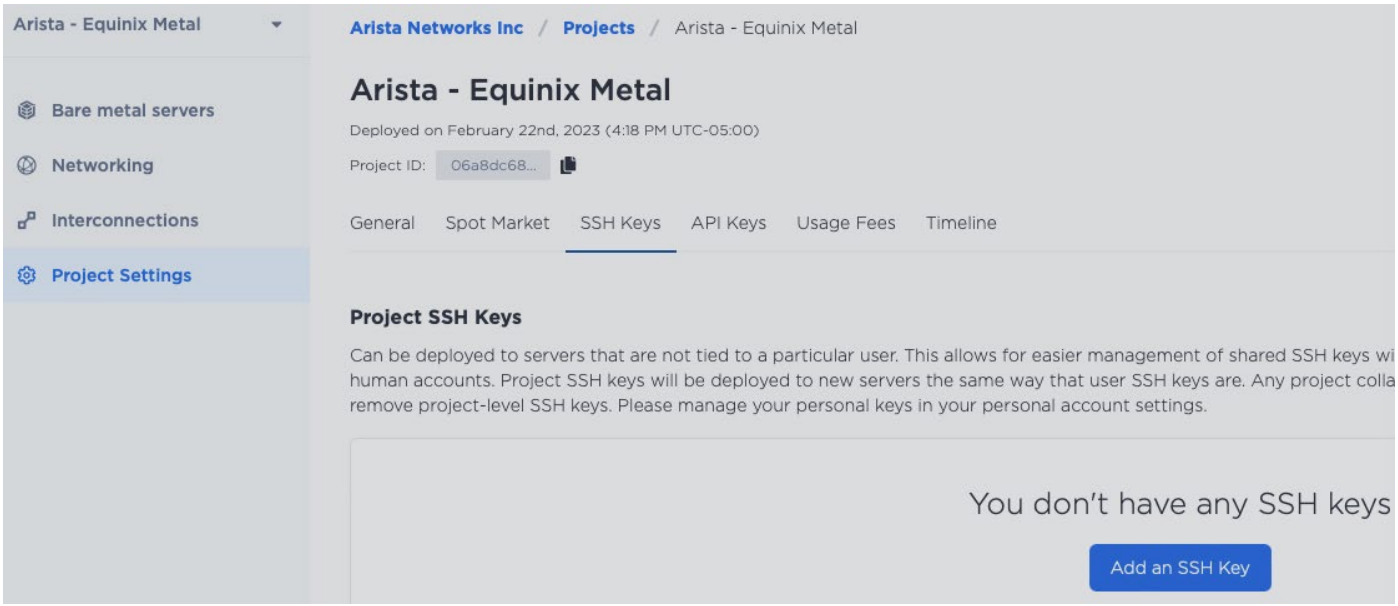
7. Once the server show as deployed, select the name to open Details.



8. IMPORTANT! The password will only remain for 24 hours after creating the server. Make certain to copy down the Password and save it somewhere secure. This is the Root password to connect to ESXI at the Public IP listed.
9. If deploying multiple servers, add a VLAN to communicate across the Equinix Fabric or dedicated ports with.

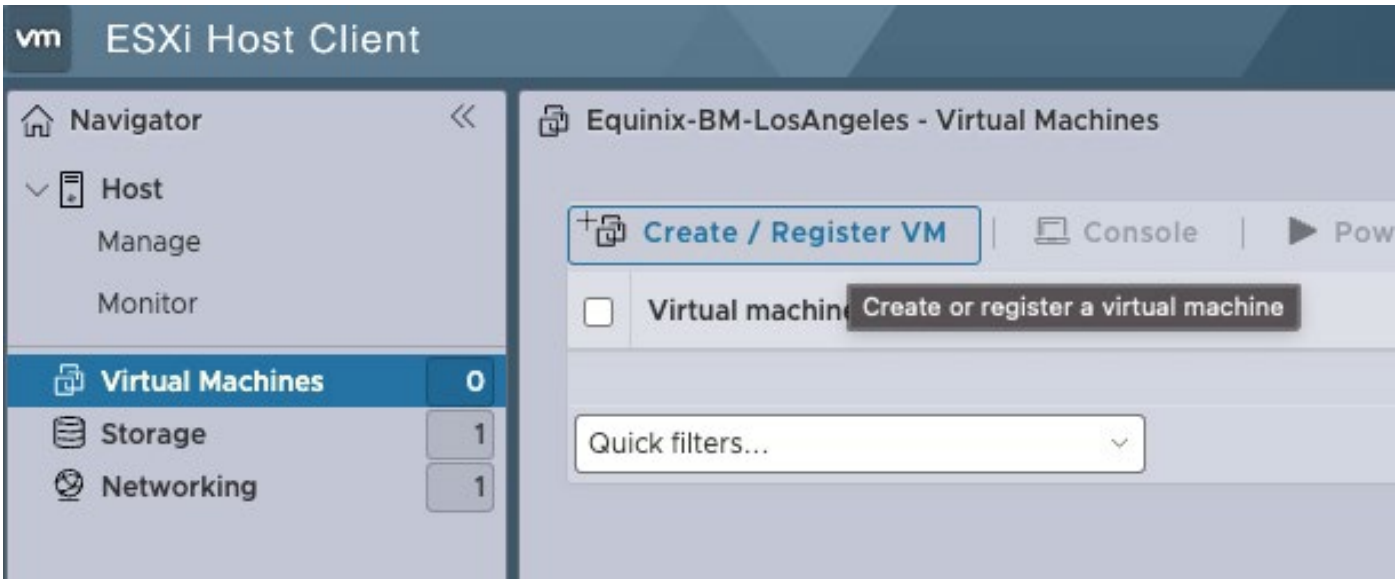


10. You can add the SSH Keys as an alternative way to connect to the Bare Metal Host Server by going into Project Settings and Add SSH Key. For more on SSH keys in Equinix metal see here.

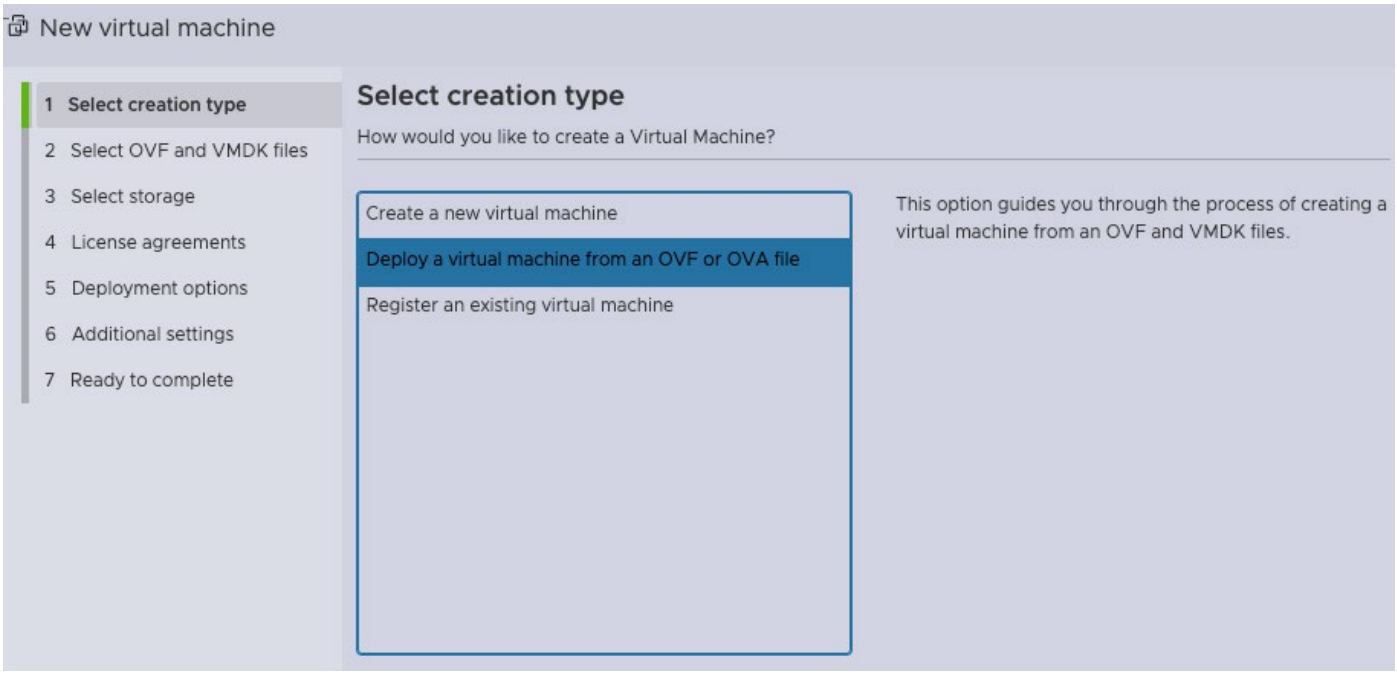


11. Open a Web Browser and go to the IP provided in the Server details. This will open the ESXI window. Login with "root" and the password previously saved offline.

12. Next, we will install CloudEOS on ESXI. To do this, go to Virtual Machines and Create / Register VM.

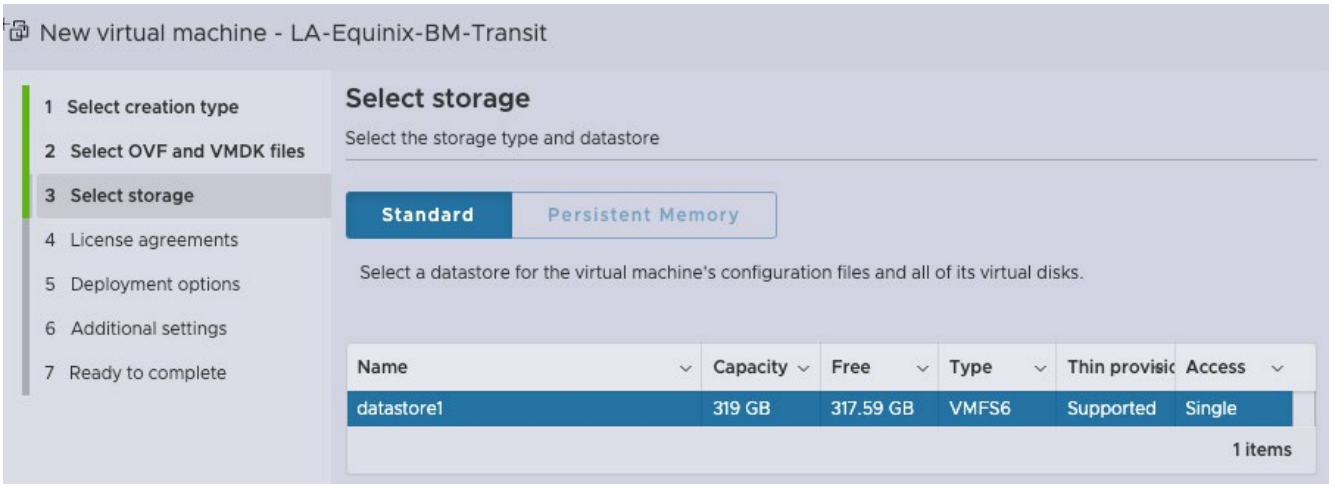


13. Select "Deploy a virtual machine from an OVF or OVA file" and then select "Next"

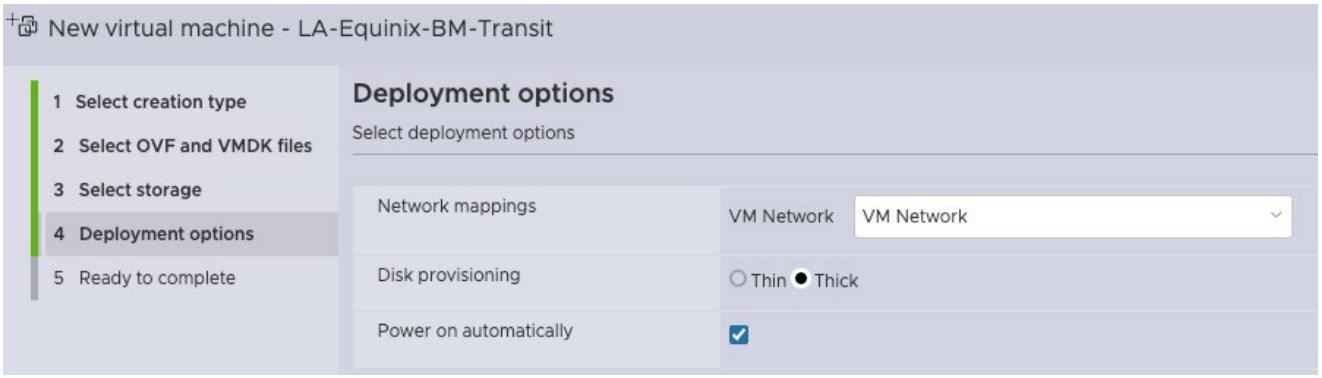


14. Provide a name used to ESXI for this Router and then browse to the location you have downloaded the CloudEOS file to. Note: CloudEOS images are found at [here]

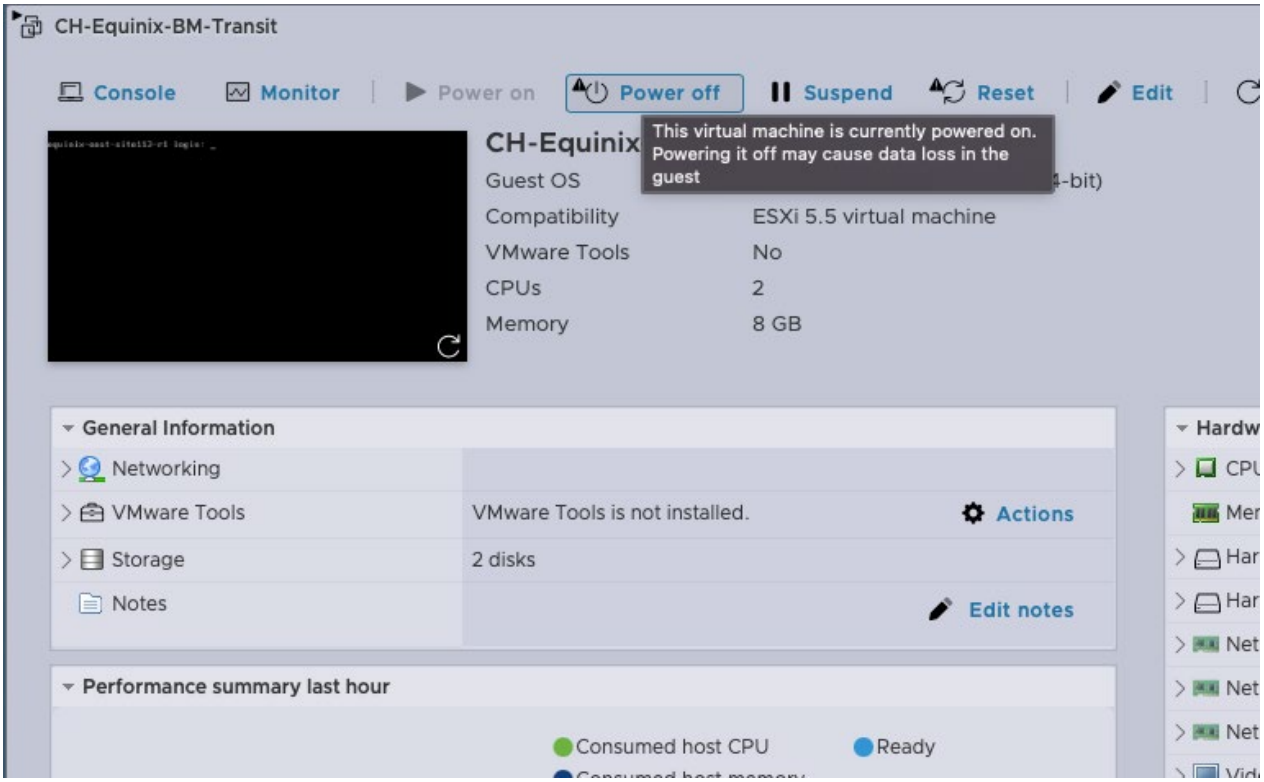
15. Select "Next", as only one storage device will be available.



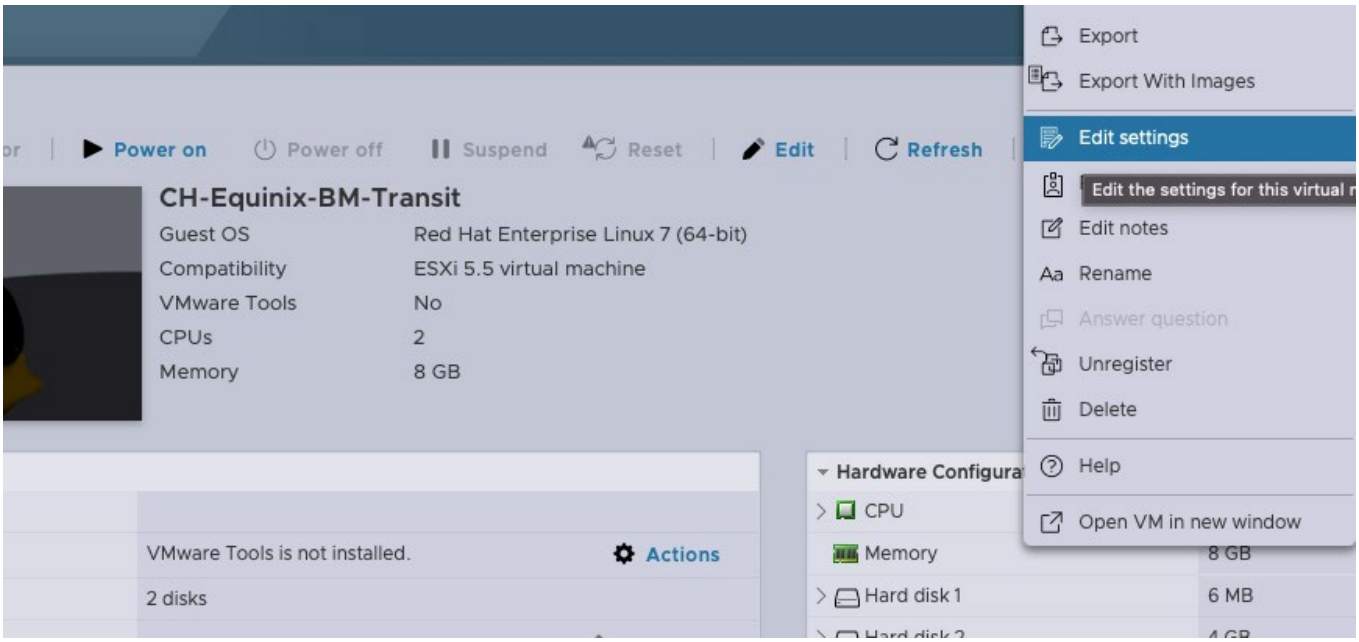
16. Select "Thick" and "Finish".



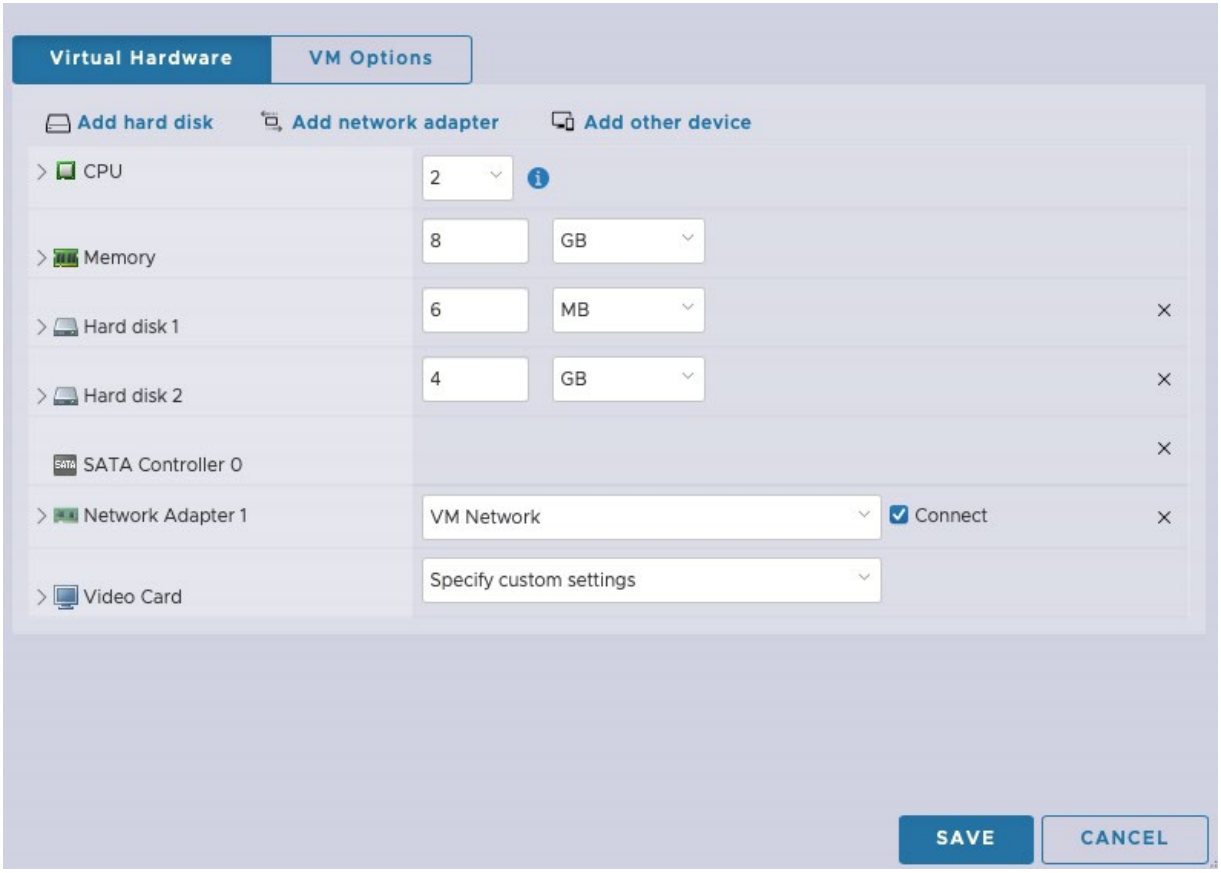
17. After the VM is installed, we will edit the network settings with require us to Power Off the VM first.



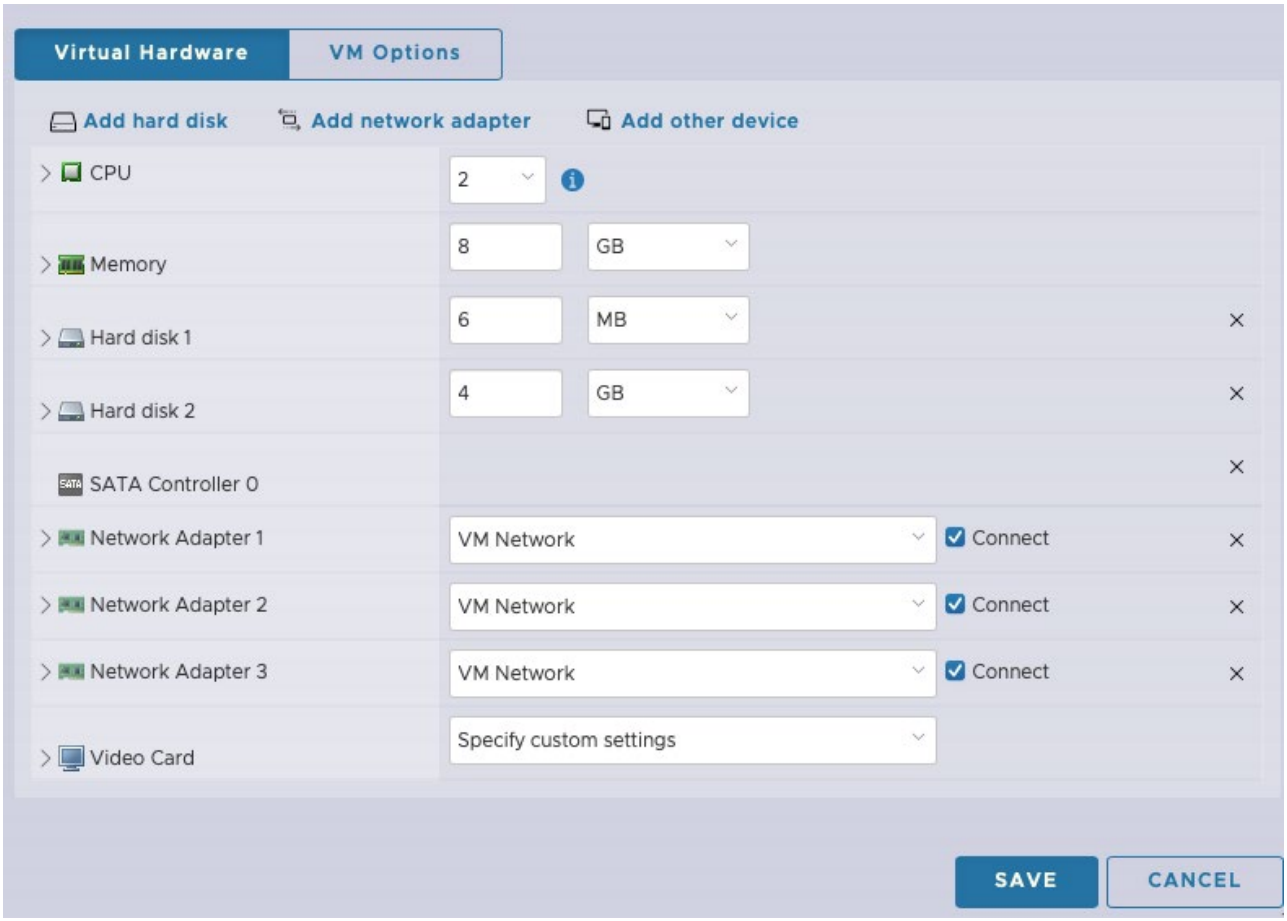
18. Once powered off, go to "Actions" and "Edit Settings"



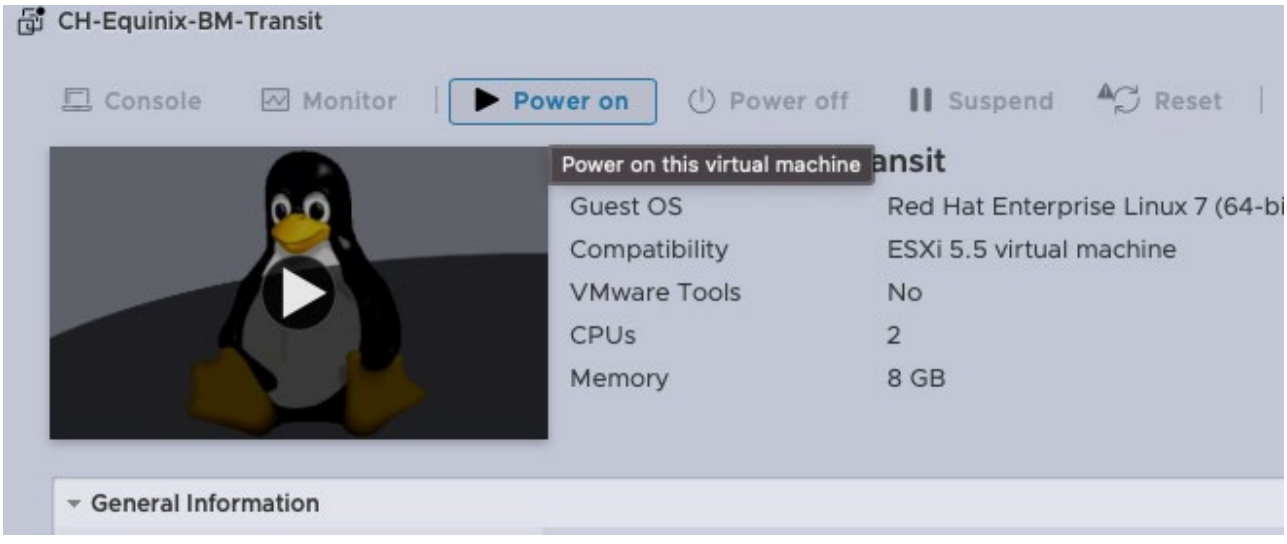
19. In the VM Hardware Settings, change the memory to the desired amount. The minimum requirements as seen in the Data Sheet is 8Gb. At this point you will also add additional Network Adaptors. By default, there will be one Network Adaptor, which is defaulted to the Mgmt Interface in EOS. We will add one interface for the Internet side as well as another in the event we add a backbone connection to another Router in the Equinix environment.17. After the VM is installed, we will edit the network settings with require us to Power Off the VM first.



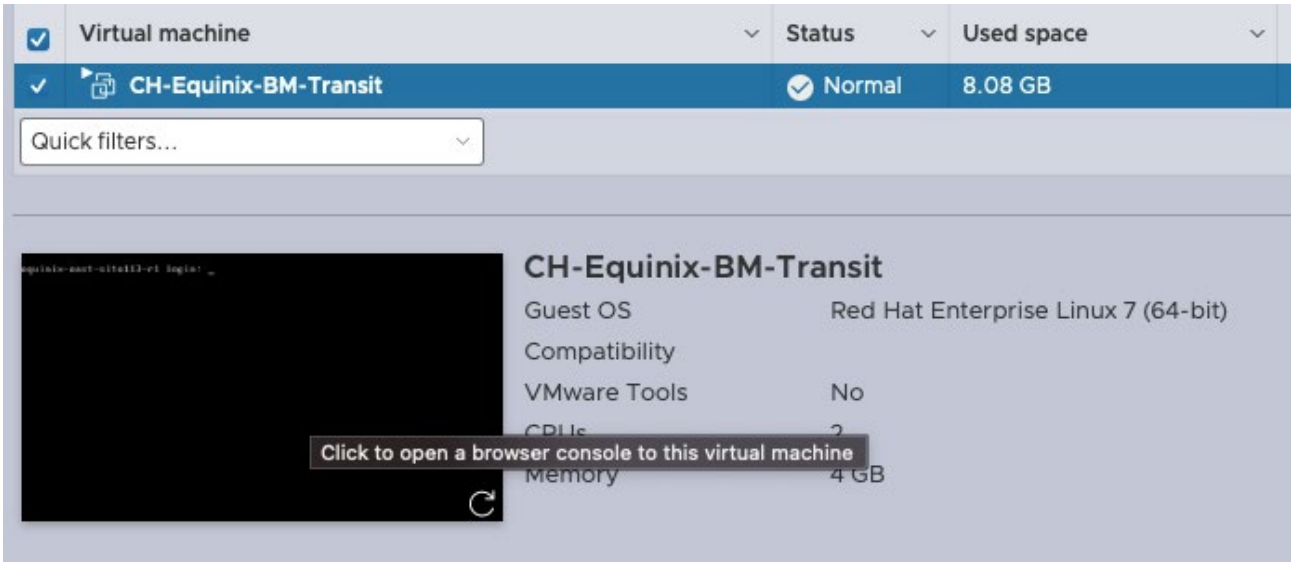
20. Select "Add network adaptor" twice, which will add two more adaptors.



21. Power on the VM again and you will be ready to configure CloudEOS.



22. Once the CloudEOS Router is powered up, select the Window to open the console.



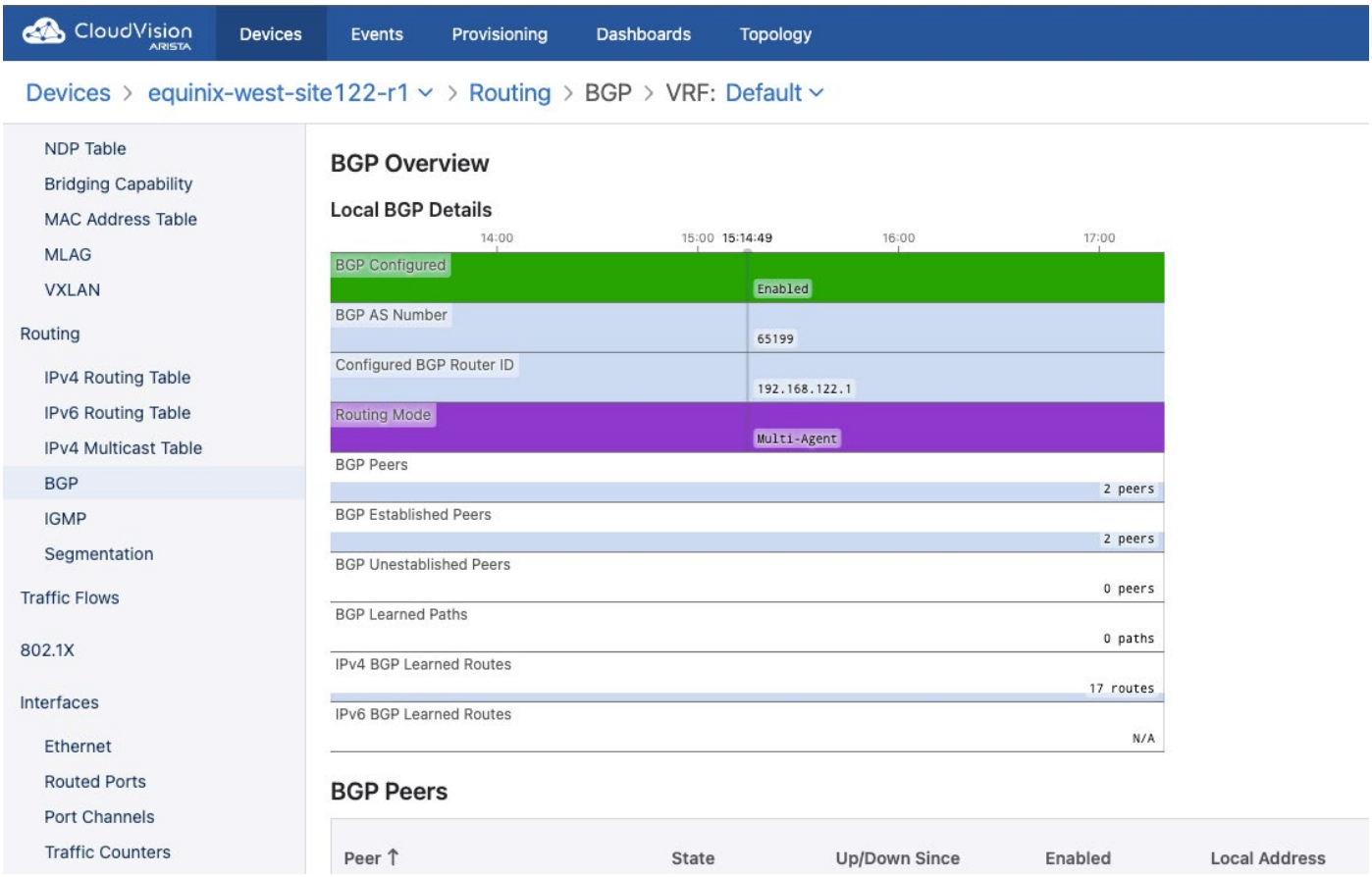
23. Login with the user "admin". When setting up the Bare Metal server, a /29 network. The gateway will be that network +1, VM will be the next and the remaining are available for use on your CloudEOS router.

Random Example: 162.210.129.8 /29

- Available Network IPs: 162.210.129.9-162.210.129.14
- Broadcast Address: 162.210.129.15
- Equinix Gateway: 162.210.129.9
- ESXI Server: 162.210.129.10
- CloudEOS Eth1 Address: ip address 162.210.129.11/29
- CloudEOS Default Route: ip route 0.0.0./0 162.210.129.9

The CloudEOS is now online and ready to install any licensing, upgrade, and complete user specific configuration. The complete CloudEOS Configuration Guide can be found here.

24. (Optional) If you have Arista CloudVision, you can also onboard the CloudEOS Router onto CloudVision, and you can see similar routing information and more valuable information from a historical perspective for troubleshooting and visibility. If you don't have Arista CloudVision, you can register it at https://www.arista.io/cv. More information about CloudVision can be found here.



Summary

You have now completed the steps of creating and connecting the Arista CloudEOS Router in Equinix Bare Metal. You can repeat this process for each Metal Server you plan on installing. As indicated, Eth 2 can then be used to connect to the backbone. A few options are available, depending on your deployment model and bandwidth requirements. These options can be found here.

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