

CloudEOS Deploy Arista CloudEOS with Equinix Network Edge



CloudEOS Deploy Arista CloudEOS with Equinix Network Edge User Guide

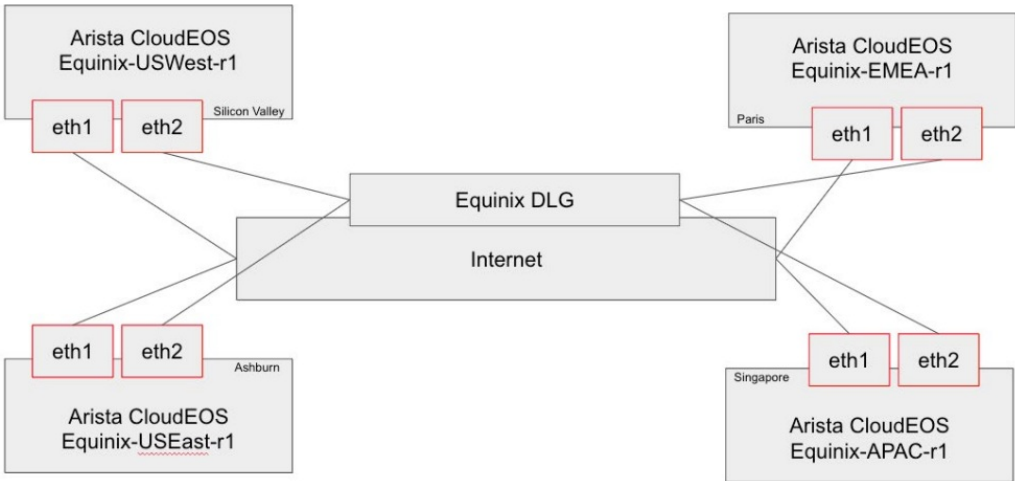
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CloudEOS

CloudEOS Deploy Arista CloudEOS with Equinix Network Edge



Specifications:

- **Product Name:** Arista CloudEOS

- **Manufacturer:** Arista Networks
- **Compatibility:** Equinix Network Edge
- **Device Type:** Router
- **Resources:** 4 cores/8GB memory

Product Usage Instructions

Prerequisites:

To deploy a device, a Billing Account must be set up for the currency in each Metropolitan used within the Equinix Customer Portal.

Deployment Steps:

1. From the Equinix Network Edge Console, add a new Edge Device by clicking on Select and Continue on the Arista Cloud EOS Router.
2. Select whether to deploy a single device or redundant devices. Choose Single Device for this deployment.
3. Select Begin Creating Edge Device at the bottom right of the screen.
4. Choose the Metro area to deploy, e.g., Silicon Valley.
5. Select the billing account and proceed.
6. Choose Device Resources and term length, e.g., 4 cores/8GB memory and Monthly terms.
7. Provide Host details and Email Address for the device creation.
8. Review selections and proceed to accept Order Terms.
9. Accept terms and conditions, then create the Edge Device for installation.
10. Repeat the above steps for additional devices being deployed.

Creating Device Link Group:

1. Go to Network Edge and then Device Link Inventory.
2. Select Create New Device Link Group.
3. Select devices to link using the Equinix Backbone.
4. Enter a name for the Device Link Group, specify bandwidth, and select the interface used on CloudEOS for the link.
5. Review and submit to finalize the setup.

Setting up CloudEOS:

1. Go to Network Edge, then Virtual Device Inventory.
2. Select the device to set up.
3. Go to Tools and then Open Console Session.
4. Login to CloudEOS in the Console.
5. Configure Eth2 with an IP address for communication with other devices via L2. No VLAN assignment is needed.

FAQ:

- **Q: Do I need a Billing Account to deploy a device?**

A: Yes, a Billing Account must be set up for each Metropolitan used within the Equinix Customer Portal.

- **Q: Can I deploy redundant devices?**

A: Yes, you can choose to deploy either a single device or redundant devices during the deployment process.

Deploy Arista CloudEOS with Equinix Network Edge

Goal

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

- Deploy an Equinix Network Edge Device
- Configure Device Link Groups
- For more information about the Arista CloudEOS Router, see [here](#) and Arista CloudVision, see [here](#). For more information about Equinix Network Edge see [here](#).

Deployment Diagram

In the following diagram, we will focus on creating one of the Equinix Network Edge Arista EOS Routers. We will deploy US-West and choose Silicon Valley for its location.

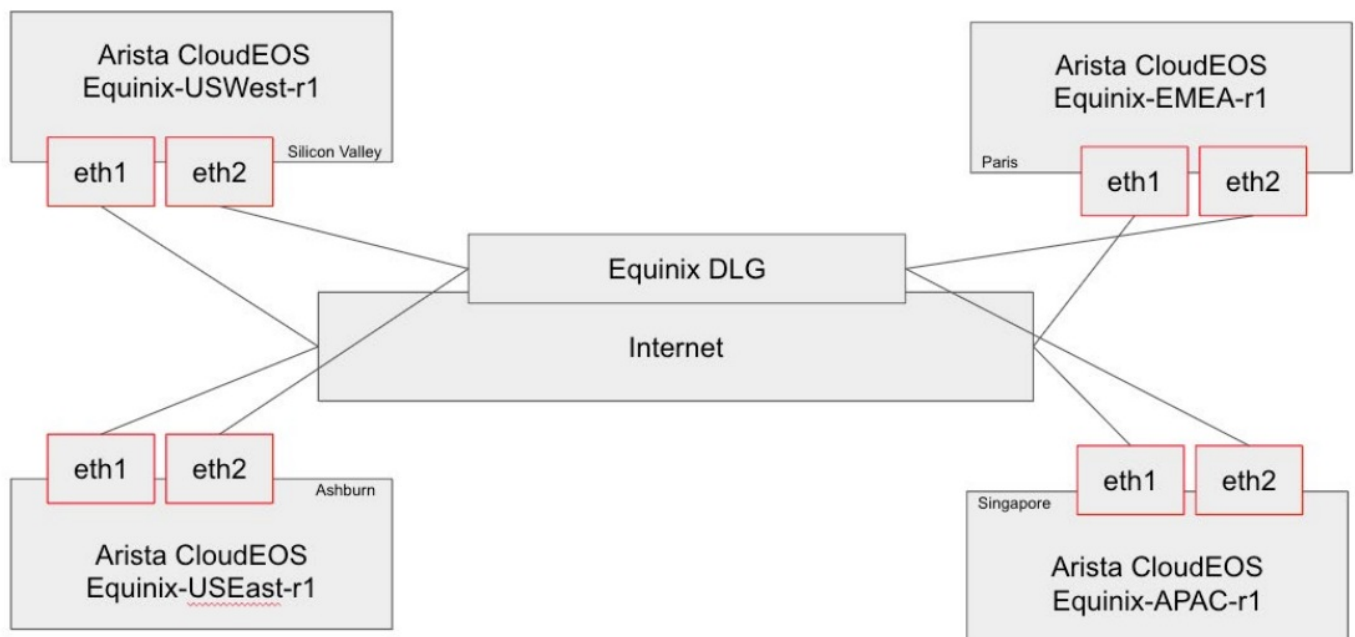


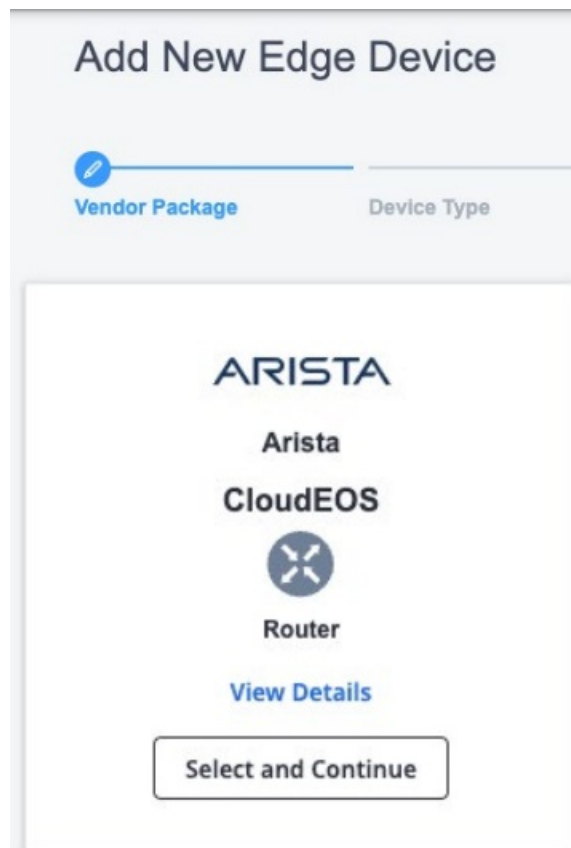
Figure 1: Connect Arista CloudEOS Router to Equinix Network Edge with Device Links

Prerequisites

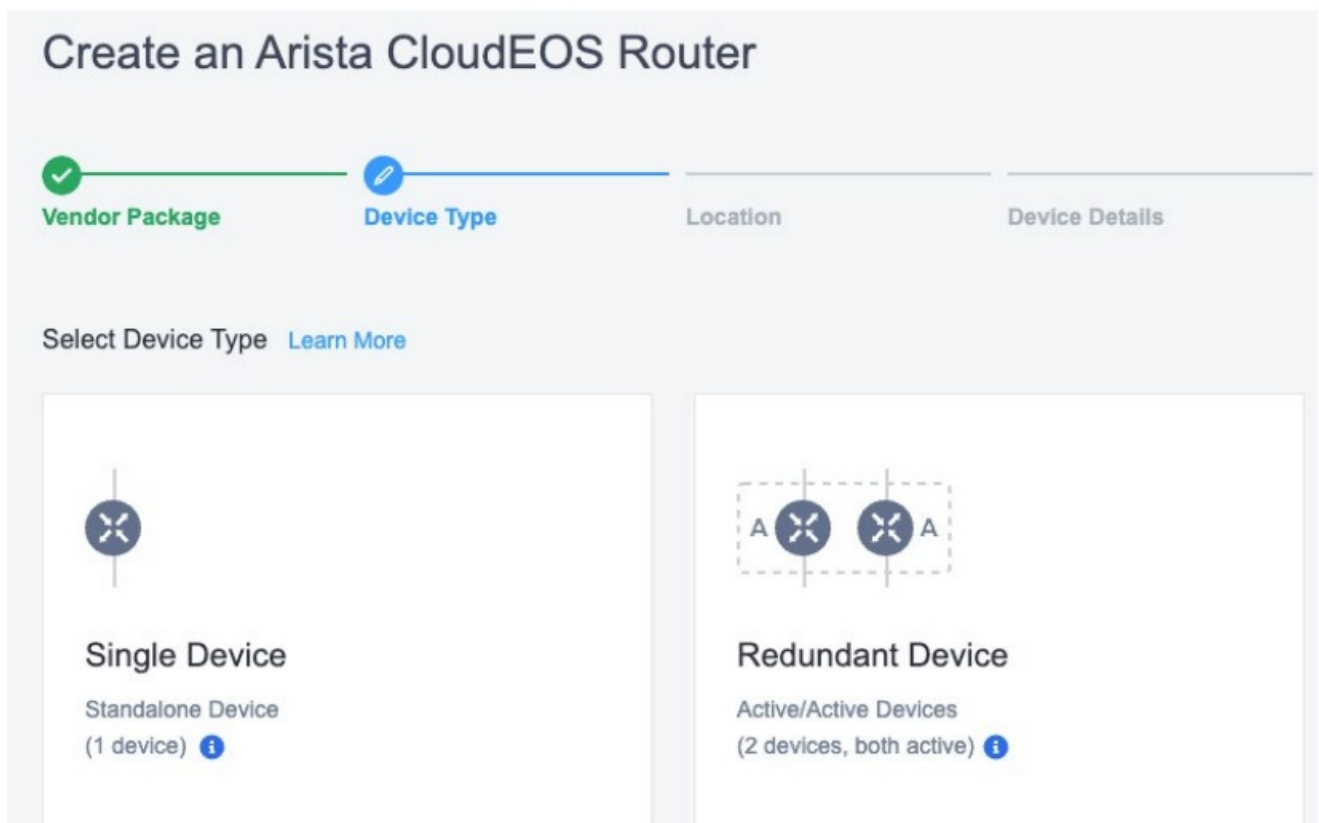
1. To deploy a device, a Billing Account must be set up for the currency in each Metropolitan used within the Equinix Customer Portal.

Deployment Steps

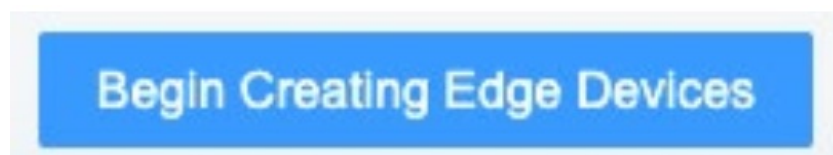
1. From the Equinix Network Edge Console, add a new Edge Device by clicking on “Select and Continue” on the Arista Cloud EOS Router.



2. You will be able to deploy a single device or redundant devices. For this deployment we will select Single Device by clicking on that tile.



3. Select "Begin Creating Edge Device" at the bottom right of the screen.



4. Choose the Metro area to deploy. Again, we will be selecting Silicon Valley for this example

Create an Arista CloudEOS Router

Vendor Package

Device Type

Location

Device Details

Additional Services

Review

Select Edge Device Location

Choose the Metro where this new Virtual Device will be deployed.

Select a Region

[AMER](#) [EMEA](#) [APAC](#)

Select location

Ashburn	Atlanta	Chicago	Dallas	Los Angeles
Mexico City	Miami	Montreal	New York	Seattle
Silicon Valley	Sao Paulo	Toronto	Vancouver	

5. Selecting the Metro Area will expand the page so you can select the billing account. Simply pull down the selection box to assign the billing account to the device. If you do not see the selection box, you do not have a Billing Account set up for the currency in that Metro Area.

Select Billing Account

Continue without selecting a billing account?

You can continue without selecting an account, but you will not be able to create a device.

×

Your accounts in this Metro

Select Billing Account

6. Select “Next” to continue.

Next: Device Details

7. Next, you will choose the Device Resources as well as the term length. In this example, we will simply be selecting the “4cores/8Gb memory” and “Monthly” terms.

Create an Arista CloudEOS Router

[Open a Support Case](#)

Vendor Package

Device Type

Location

Device Details

Additional Services

Review and Submit

Licensing

[Learn More](#)

Bring your Own License

Use your existing software license. This option includes limited Equinix support.

Device Resources

Select the appropriate resource below.

4 Cores, 8 GB Memory

8 Cores, 16 GB Memory

Term Length

Choose your term length. Longer terms include additional savings. Charges are billed monthly.

1 month

Pricing Overview

Total Monthly Recurring Charge

Term Total

Additional taxes and/or fees may apply, depending on the Metro.

8. Once selected, the page expands to provide more options and information. The two windows that are required are the Host details and Email Address for the creation of this device. Complete filling in both of these boxes.

Device Details

Device Name

Name your Edge Device

Host Name Prefix

Enter Host Name prefix

VNF Public IP Address

[Learn More](#)

DHCP

Device Status Notifications

Enter up to 5 email address(es) that will receive device status notifications.

Add Emails



Network Notifications

Subscribe to notifications on the [Equinix Customer Portal \(ECP\)](#) to receive Network alerts.

[Learn more](#)

9. Select "Next" to continue

Next: Additional Services

10. On the Additional Services page you are presented with some more options. You will want to add a username to be used by SSH to connect to the CloudEOS Router. Additionally a SSH Key will be required. If one has not been created in your account yet, you will need to do it now as this field is required.

NOTE: At the time of writing this document, it shows DSA is only supported. In fact, RSA is not only supported, but preferred. Your window may reflect this change. Another required field is the Access Control List Templates. Again, if this is not created, you will need to do so at this point. Finally, by default, you will have 15 Mbps of internet bandwidth. If you would like to increase that amount, you can choose to do so now (or upgrade later). If doing so now, the price increase will be reflected.

Add Users

Define a distinct user credential that will be loaded as an access control list for users accessing your Virtual Device via SSH/HTTPS. [Learn More](#)

Username

SSH DSA Public Keys

Generate a key using terminal software. This device type only accepts DSA keys. Enter that key here or select from existing public key(s).

Existing DSA Public Keys

Add New DSA Public Key

Access Control List Templates

Select a template for your device. [Learn more](#)

WAN Interface Access Control List

Create Access Control List Template

Additional Internet Bandwidth

All devices include 15 Mbps of internet bandwidth as part of the Edge Instance package. For a fee, you can add between 25 and 5000 Mbps of internet bandwidth [Learn more](#)

Diverse Compute from an Existing Single Device

Select a device that is diverse from this current device. [Learn more](#)

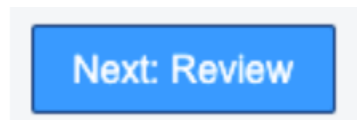
☐ Select Diverse From

Bandwidth in Mbps

Enter a value between 25 - 5001

0 Mbps +15 Mbps (Default)

11. Select "Next" to review before submitting.



12. After you confirm all of your selections, you will be required to Review and Accept Order Terms.

Terms and Conditions

By using this third party product, you agree to the terms and conditions outlined in the provider's End User License Agreement (EULA).

Review and Accept Order Terms

⌚ Not Accepted

13. Scroll through to read the terms and conditions, check the box that you have read and understand the terms and then "Accept"

☒ I have read and understand these terms.

Cancel

Decline

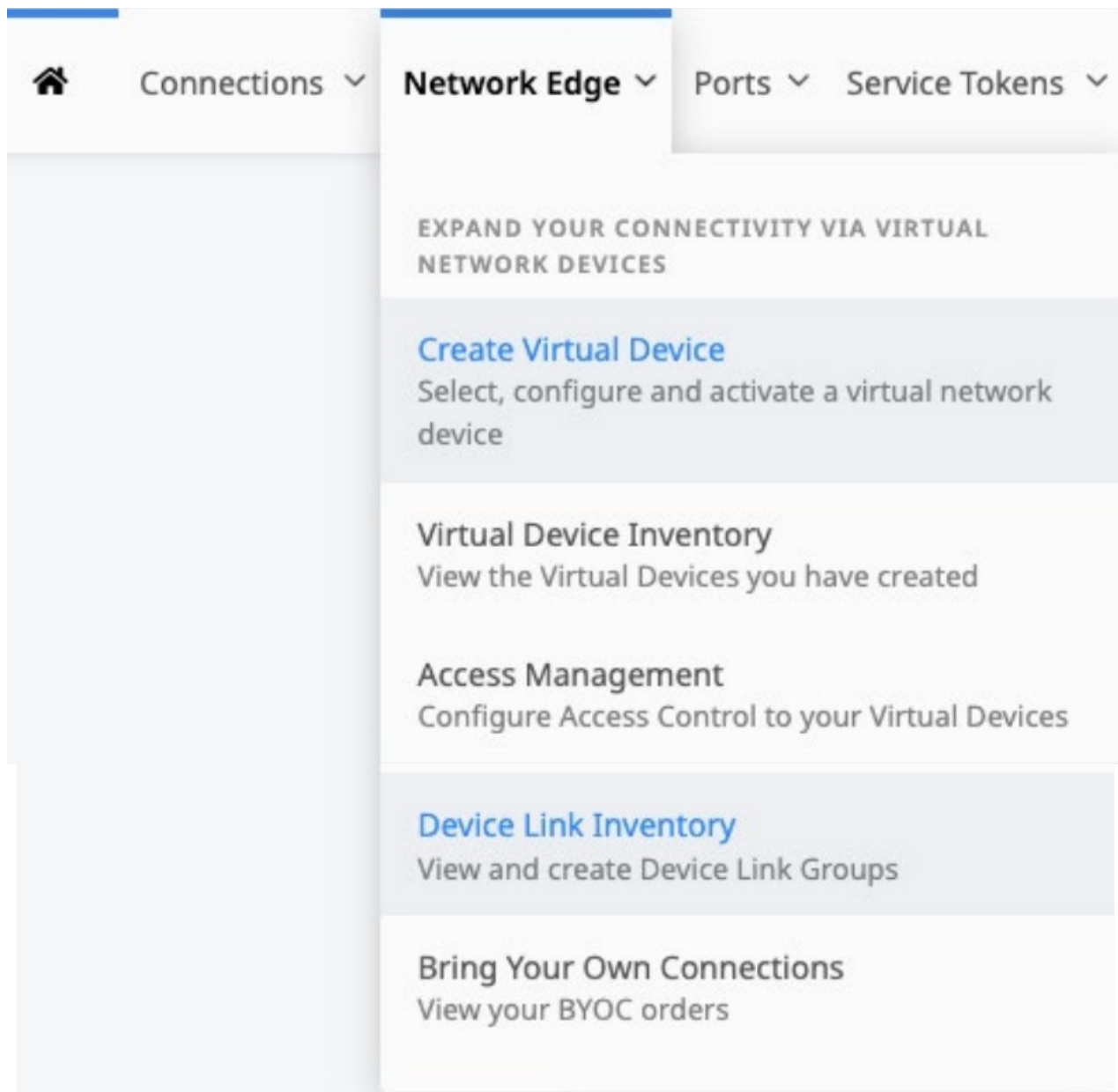
Accept

14. Select "Create Edge Device" to begin the installation process.



15. Repeat the steps above for the other devices being deployed.

16. Next, we will mesh these all together by creating a Device Link Group. Go to Network Edge and then Device Link Inventory.



17. Select Create New Device Link Group.

Create New Device Link Group

18. Select the devices that you want to link together using the Equinix Backbone.

Self-Configured Devices Selected

These types of devices must be manually provisioned after the device link is created. **West, EMEA and East**

Global Pricing Applied

Pricing is based on device location. Device link groups that reach across regions will affect pricing.

Filter Devices

Filter by device name or UUID

All Metros

All of your provisioned virtual devices from all Metros



East

Ashburn

Arista | Arista Router |
ROUTER



EMEA

Paris

Arista | Arista Router |
ROUTER



West

Silicon Valley

Arista | Arista Router |
ROUTER



APAC

Singapore

Arista | Arista Router |
ROUTER



19. Select "Next"

Next: Device Link Details

20. Enter a name for the Device Link Group. At this point you will also enter the bandwidth for the links, as well as an option to use different bandwidth from each location. Finally we can select the interface used on CloudEOS for this Link. Since Eth1 is our internet access we will use Eth2 for the Equinix Backbone at each location.

Device Link Details

Device Link Name

Enter a Name

Required field

Connection Bandwidths

☒ Individual Connection bandwidth

Silicon Valley

bandwidth

50 Mbps | Up to 50 Mbps | 170.00 USD

Paris

bandwidth

50 Mbps | Up to 50 Mbps | 360.00 EUR

Interface

This interface will be reserved for all incoming Connections to this device. It will not be available to create Connections to any other service provider.

☐ Automatically select the next available interface on my devices

☒ I will select the interface on my device

Interface for West

Select Interface

Required

Interface for EMEA

Select Interface

Interface for East

Select Interface

Ashburn

bandwidth

50 Mbps | Up to 50 Mbps | 170.00 USD

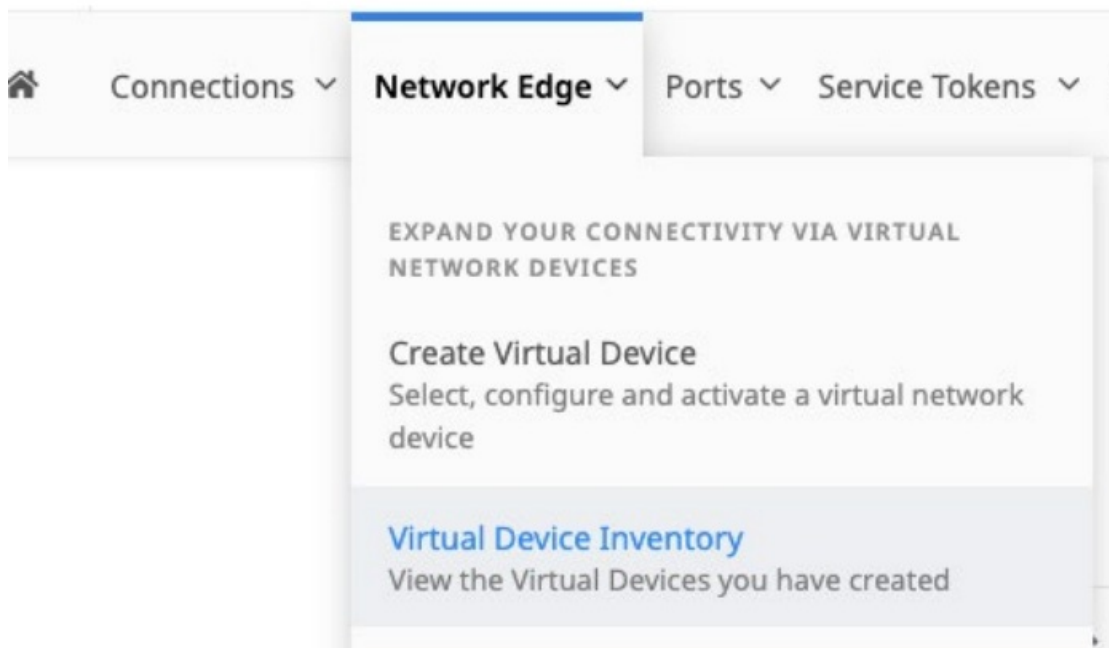
21. Select "Next" to review.

Next: Review

22. Select "Submit" to finalize the setup.









Submit

23. Next, we will get CloudEOS setup. Go to Network Edge, then Virtual Device Inventory.

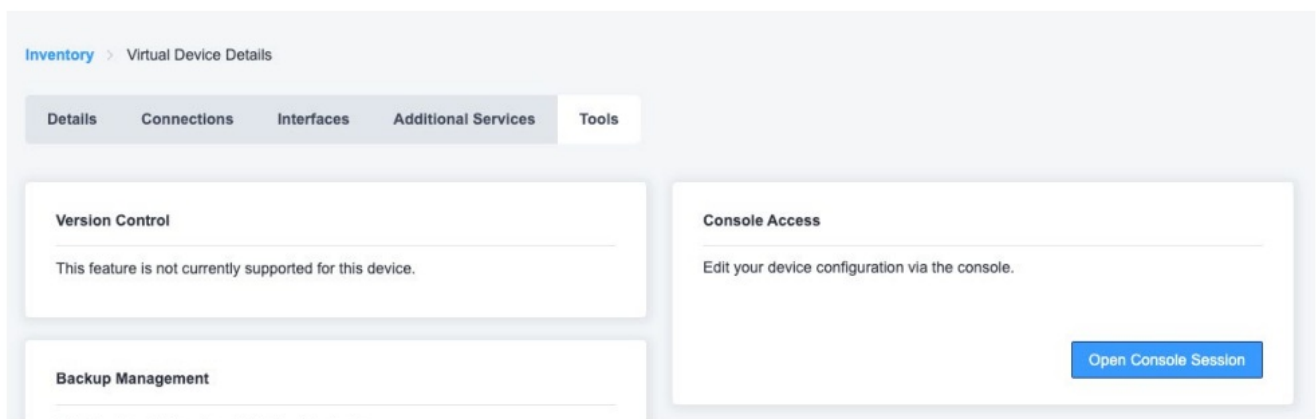


24. Select the device to set up.

Viewing 4 of 4 [Learn More](#)

Device Status	Device Type	Virtual Device Name
		EMEA
		APAC
		West
		West

25. Go to "Tools" and then "Open Console Session"



26. Login to CloudEOS in the Console. Eth1 will be set up with DHCP already. Go to Eth2 and add an IP that will be used to communicate with the other devices via L2. There is no VLAN needing to be assigned and you can use the networking addresses of your choice as this is all internal to your routers and the Equinix Link Group.

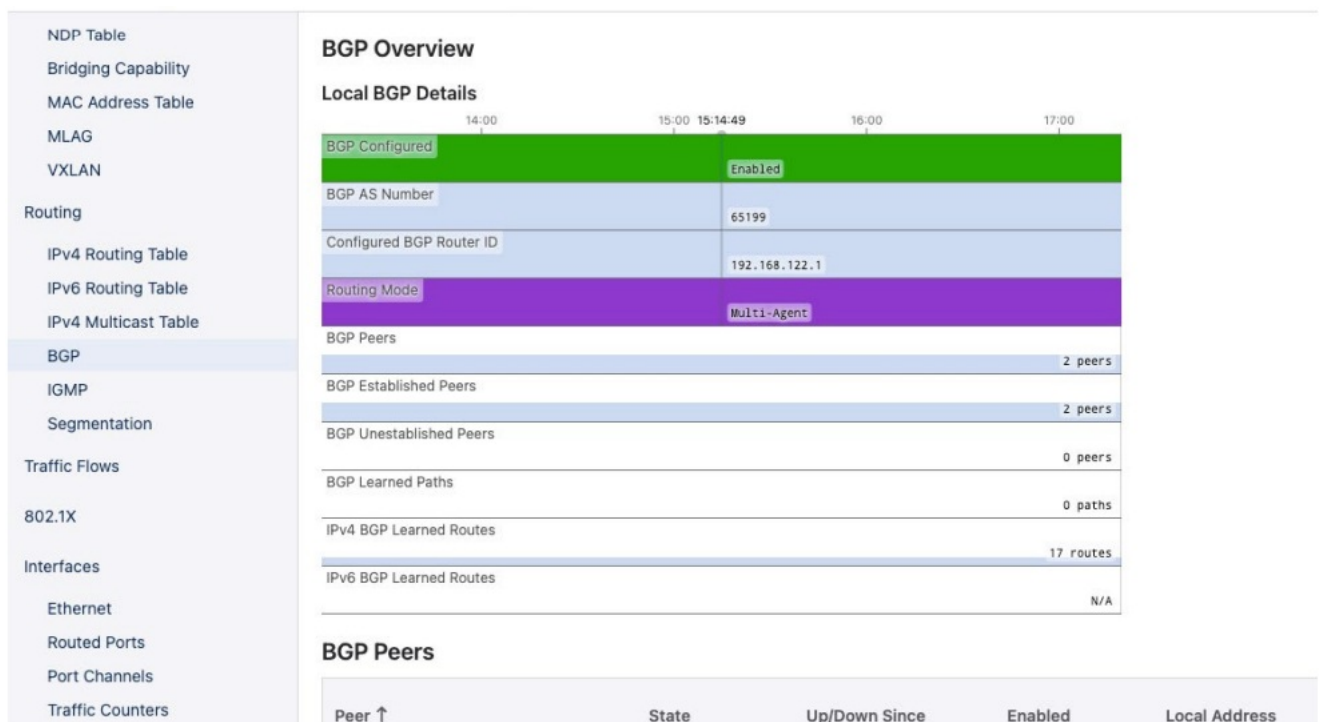
This is an example of the Eth2 configuration:

You should now be able to reach the devices across the Equinix Backbone as well as via the Internet.

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](#).

27. (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 Network Edge and connected them via the Device Link Group.

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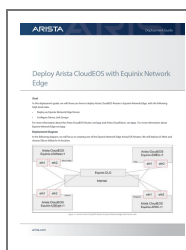
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Documents / Resources



[ARISTA CloudEOS Deploy Arista CloudEOS with Equinix Network Edge](#) [pdf] User Guide
CloudEOS Deploy Arista CloudEOS with Equinix Network, Edge, Deploy Arista CloudEOS with Equinix NetworkEdge, CloudEOS with Equinix Network Edge, Equinix Network Edge

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- [!\[\]\(5b78a2fafd05db5e14d20573d68ef9b3_img.jpg\) Hybrid Cloud Computing - Any Cloud Management Platform - Arista](#)
- [!\[\]\(25fe2c0d7244c22c84de6bda963b471d_img.jpg\) Arista CloudVision](#)
- [!\[\]\(d4bd0dc972749ad3ba477eac47688a0b_img.jpg\) Network Edge – Cloud Edge Services & Edge Network Management | Equinix Digital Services](#)
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