

# Cloudbrink Connector - Nutanix AHV

Cloudbrink's [Software Defined Mobility](#) enables enterprises to deliver best-in-class quality of experience and security for their end users in the new mobile-first and cloud-native world. Cloudbrink achieves this through three simple components:

1. The Brink Agent is installed on end user devices, with all major platforms supported.
2. Enterprise access points are automatically created via machine learning in close proximity to the end user, enabling Cloudbrink's revolutionary overlay protocol to overcome the most challenging last-mile network conditions, delivering best-in-class, high fidelity quality of experience for the end-user no matter the network they are connected to.
3. To provide end-to-end security, a **Cloudbrink Connector** is deployed in the customer's data center or cloud environment, creating a "dark cloud" secure connection from the end user to their applications.

This document covers deploying the Cloudbrink Connector in an AHV environment.

## Introduction

This document will guide you to create a Cloudbrink Connector (either single or active-standby pair) in AHV. Steps 6 through 16 must be completed twice in order to create two instances for the active-standby pair.

## Prerequisites

- The Connector virtual machine qcow2 disk file should have been provided separately, which can be re-used for any number of Cloudbrink Connectors
- A Cloud-Init script for static IP and one-time Connector Key should also have been provided separately
- Nutanix Prism Element admin account to upload the disk image and create virtual machines

## Connector VM Requirements

- Compute: 4 CPU and 8GB RAM
- Storage: 30 GB Disk
- Networking: Outbound ports 443 (TCP), and 9993-4 (UDP) to Cloudbrink SaaS and Edge IPs

## Connector VM – High Level Instructions

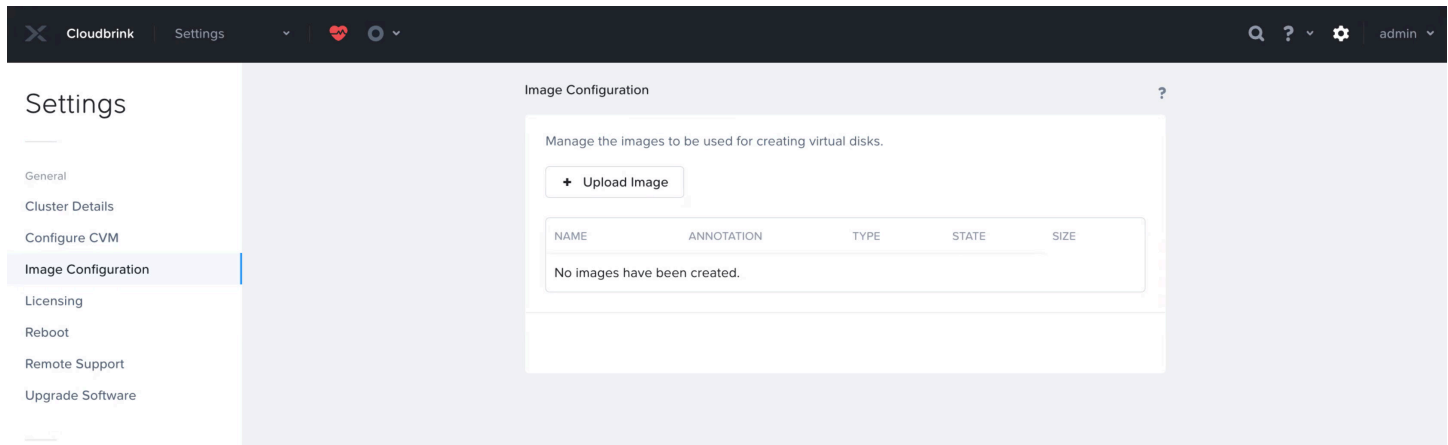
- Upload the provided qcow2 disk file to the AHV Image Service
- Deploy one (non-HA) or two (HA) VMs from the image with the following settings:
  - The above compute resources
  - A cloud-init customization script with desired static IP and Connector Key

## Connector VM – Detailed Instructions

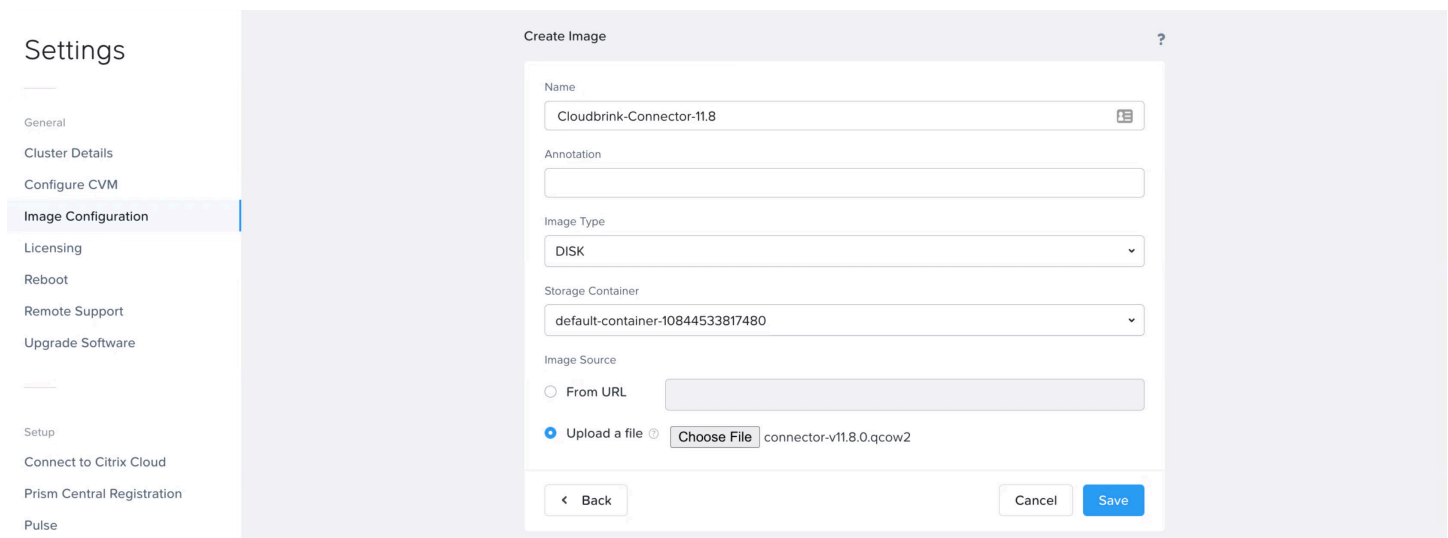
1. **Expand** the provided tar file via your GUI, or the following CLI command:

```
tar -xzf connector-v*-kvm.tar.gz
```

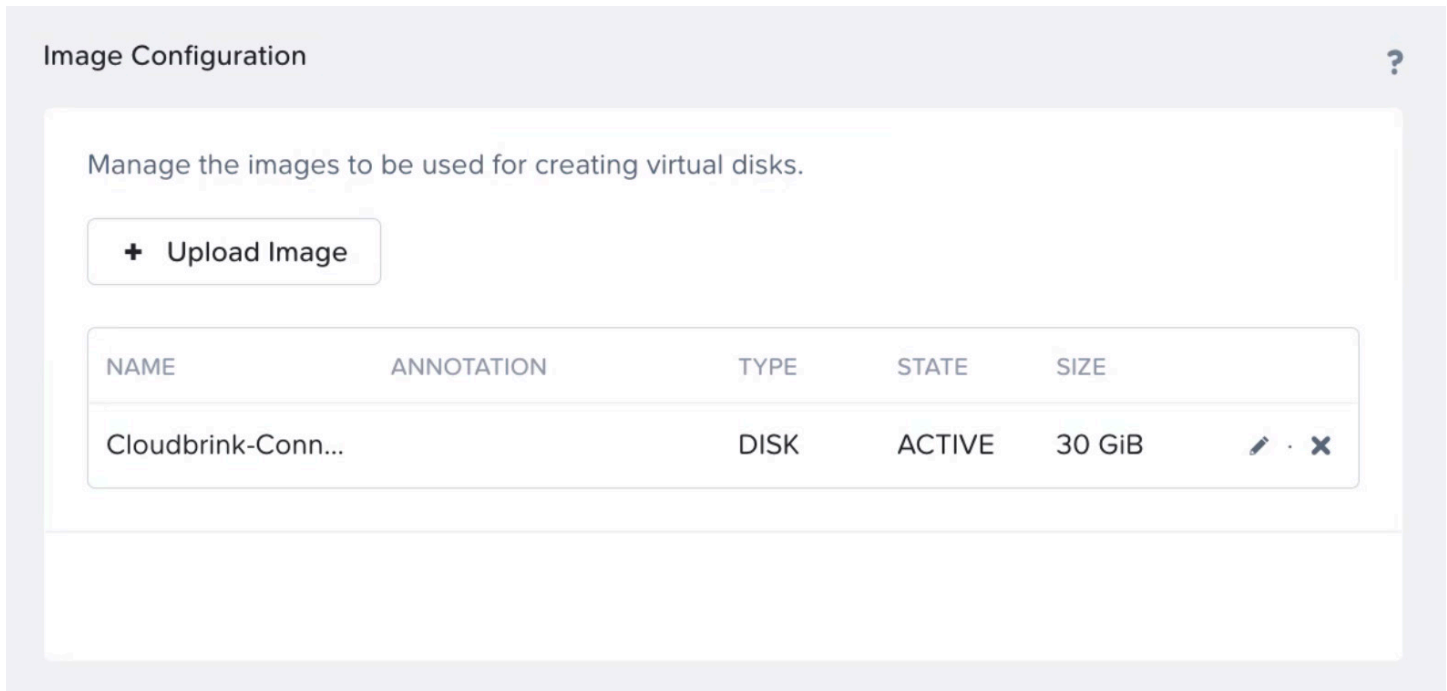
2. Within **Prism Element**, click the **gear icon** in the upper right corner, and then **Image Configuration** along the left column.



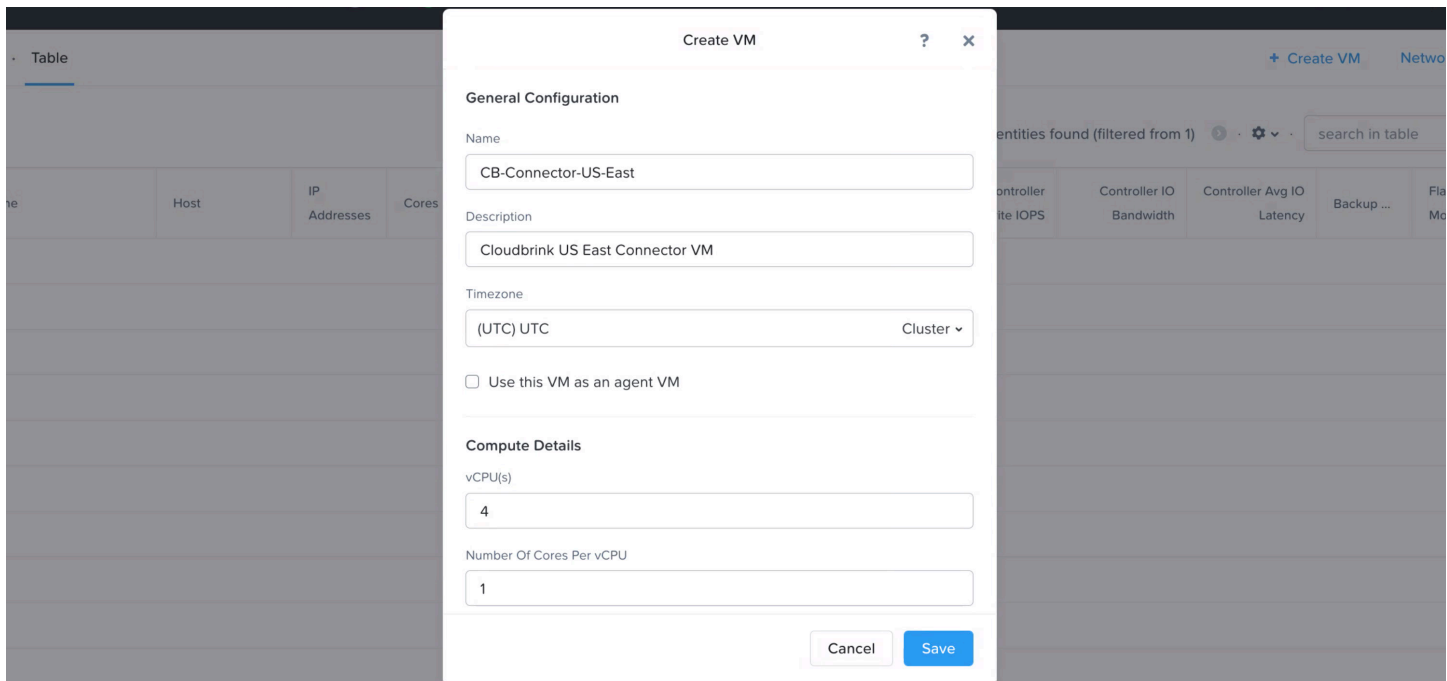
3. Click the **+ Upload Image** button within the Image Configuration.
4. Within the **Create Image** window fill out the following fields and then click **Save**:
  - A. **Name**: a friendly name for the Cloudbrink Connector Image
  - B. **Annotation**: (optional) an annotation per business practices
  - C. **Image Type**: DISK
  - D. **Storage Container**: choose per business practices
  - E. **Image Source**: Upload a file
  - F. **Choose File**: connector-v\*.qcow2



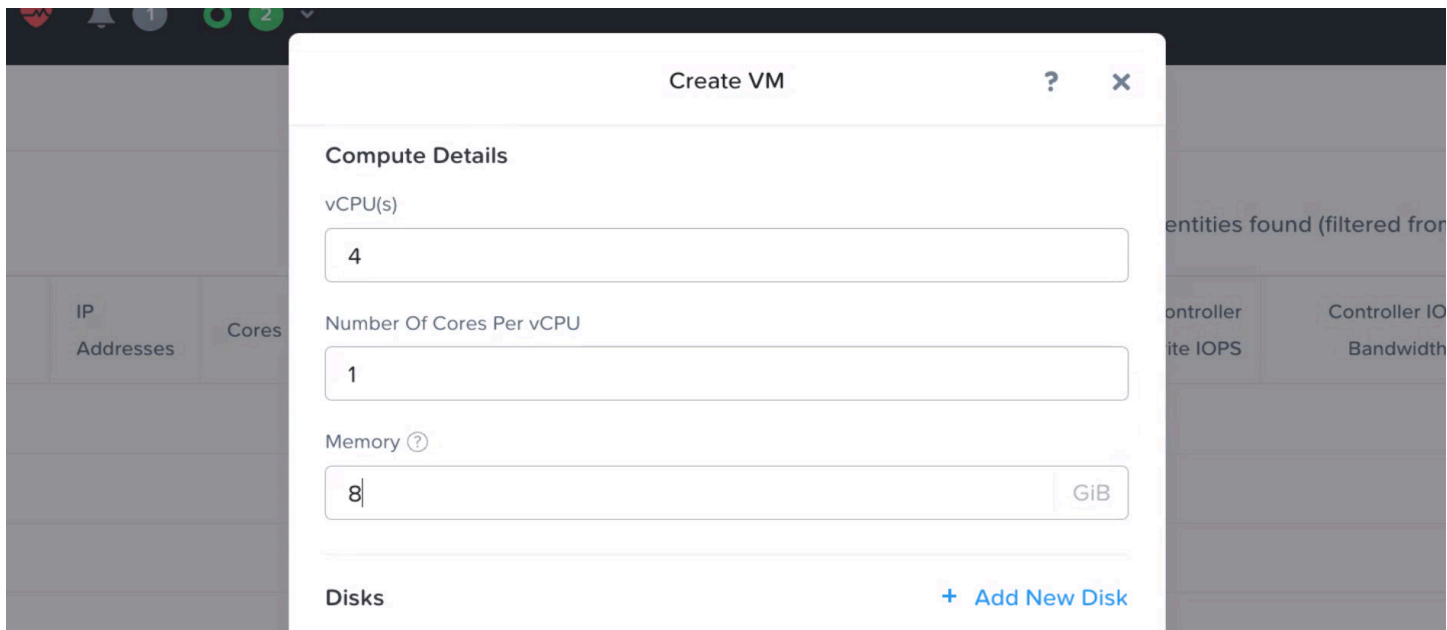
- Depending upon network speed, wait several minutes for the image to upload and convert to a usable format. Once complete, verify the image is in an **Active** state.



- Expand the **main menu dropdown** in the upper left corner, select **VM**, and then click **+ Create VM** in the upper right corner.
- Within the **Create VM** pop-up, provide a **name** and **description** per business practices.



8. Within the **Compute Details** section, change the **vCPU(s)** to **4**, and the **Memory** to **8**.



**Create VM**

**Compute Details**

vCPU(s)

4

Number Of Cores Per vCPU

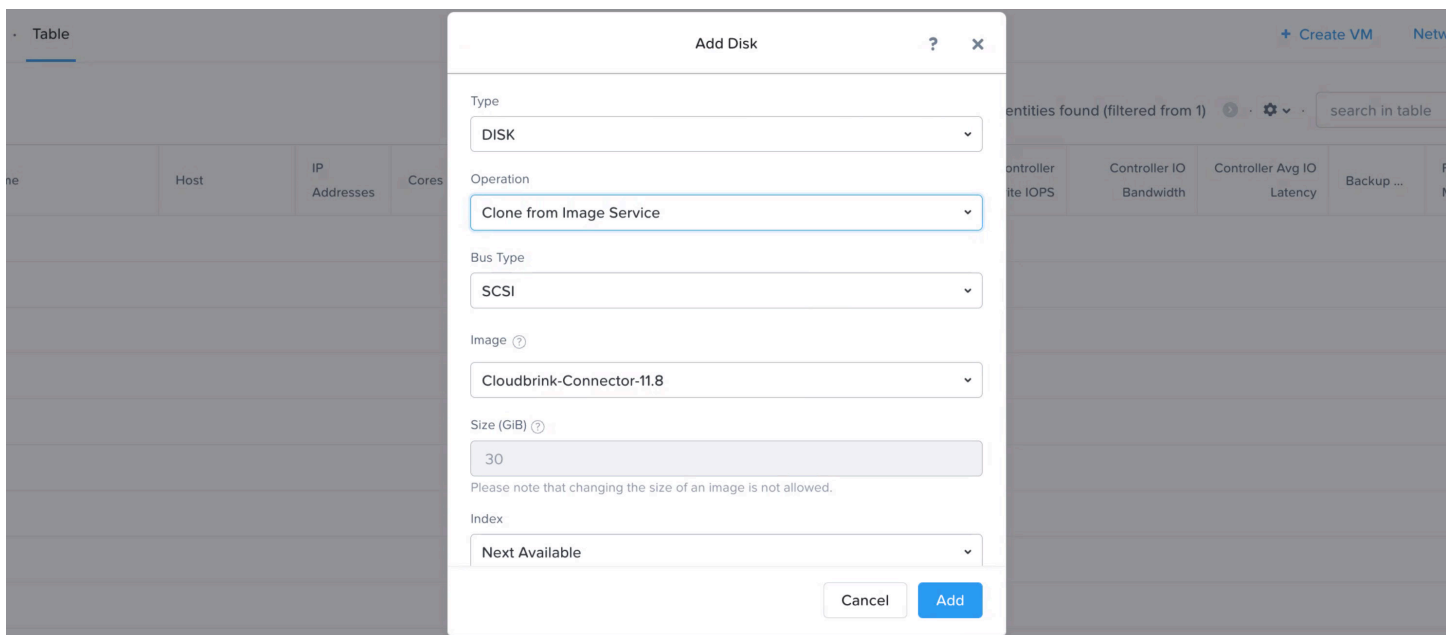
1

Memory ?

8 GiB

**Disks** [+ Add New Disk](#)

9. Click the **+ Add New Disk** button, then fill out the following fields and click **Add**:
- Type:** DISK
  - Operation:** Clone from Image Service
  - Bus Type:** SCSI
  - Image:** Select the image created in step 4
  - Index:** Next Available



**Add Disk**

Type

DISK

Operation

Clone from Image Service

Bus Type

SCSI

Image ?

Cloudbrink-Connector-11.8

Size (GiB) ?

30

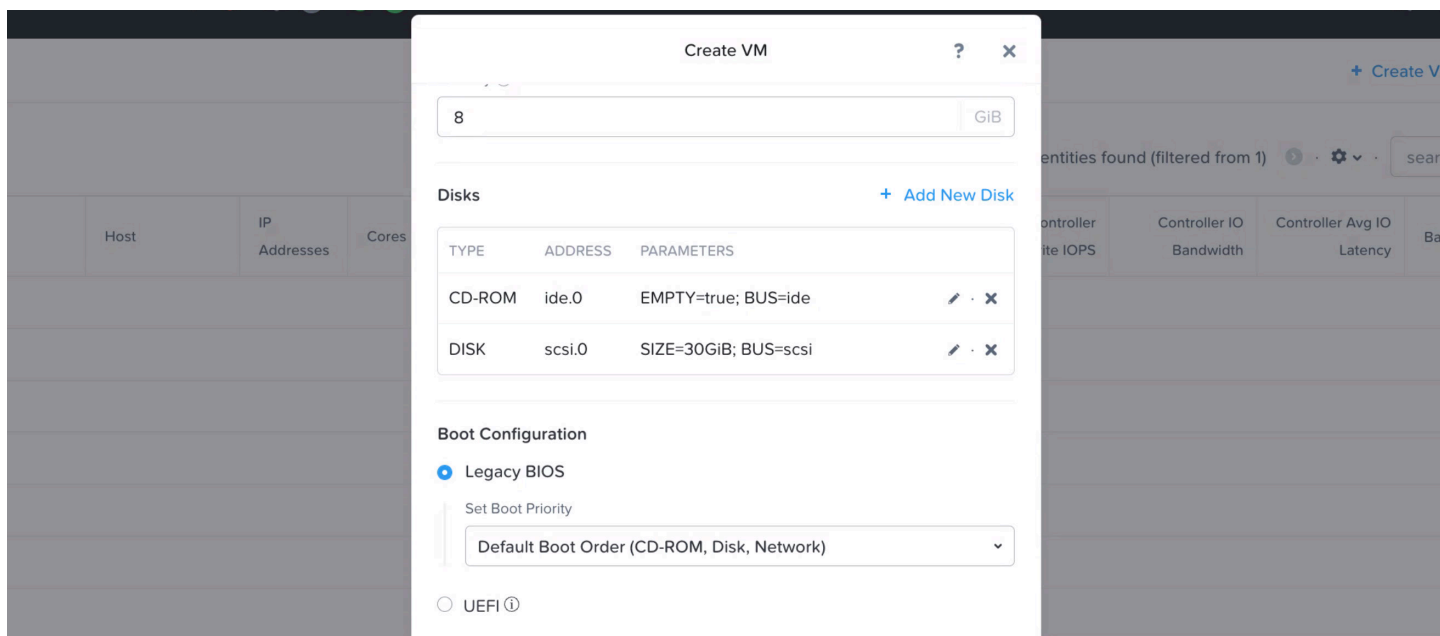
Please note that changing the size of an image is not allowed.

Index

Next Available

[Cancel](#) [Add](#)

10. Ensure the **Disks** appear as below, and leave the **Boot Configuration** as default.



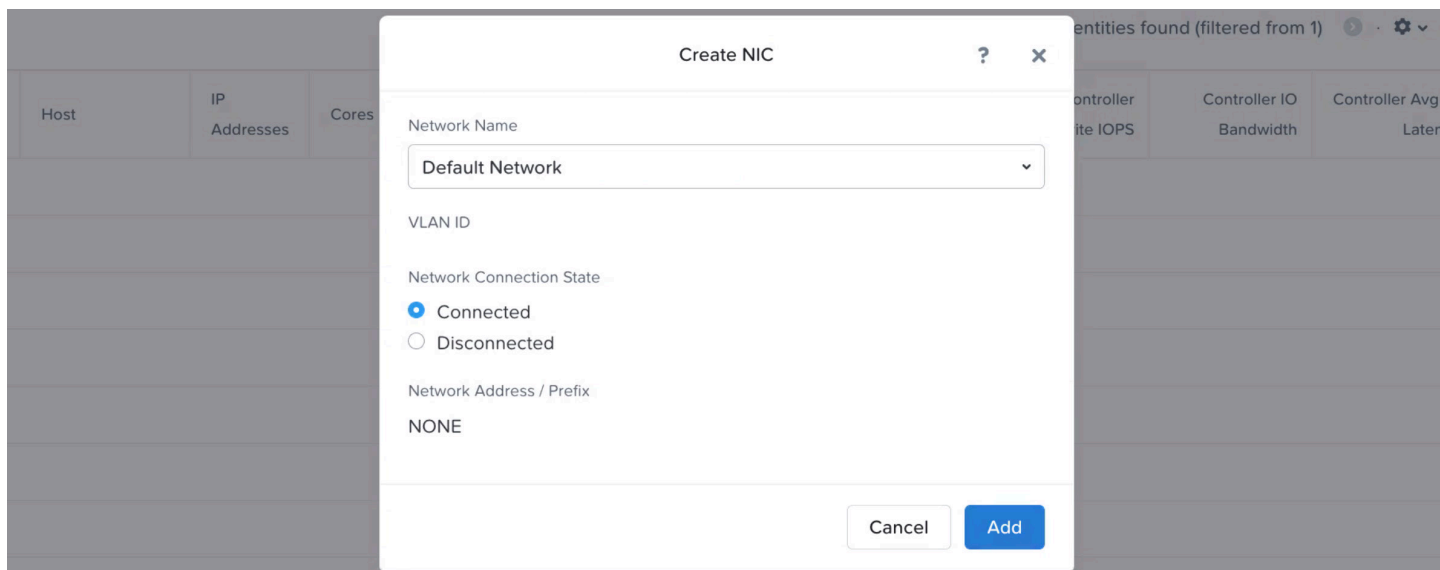
The screenshot shows the 'Create VM' dialog box. At the top, there is a memory input field set to '8 GiB'. Below this is the 'Disks' section, which contains a table with the following data:

TYPE	ADDRESS	PARAMETERS
CD-ROM	ide.0	EMPTY=true; BUS=ide
DISK	scsi.0	SIZE=30GiB; BUS=scsi

Below the table is the 'Boot Configuration' section. It has two radio buttons: 'Legacy BIOS' (which is selected) and 'UEFI'. Under 'Legacy BIOS', there is a 'Set Boot Priority' dropdown menu showing 'Default Boot Order (CD-ROM, Disk, Network)'.

11. Under Network Adapters, click **+ Add New NIC**.

12. Select the appropriate network under the **Network Name** dropdown, leave the **Connected** radio button toggled, and click **Add**.



The screenshot shows the 'Create NIC' dialog box. It has a 'Network Name' dropdown menu set to 'Default Network'. Below this is a 'VLAN ID' field. The 'Network Connection State' section has two radio buttons: 'Connected' (which is selected) and 'Disconnected'. At the bottom, there is a 'Network Address / Prefix' field set to 'NONE'. At the very bottom right, there are 'Cancel' and 'Add' buttons.

13. Enable the **Custom Script** checkbox, and then select the **Type or Paste Script** radio button.

**Create VM**

**Network Adapters (NIC)** + Add New NIC

VLAN ID	NETWORK NAME	MAC	REQUESTED ...
0	Default Network		

☒ **Custom Script**  
Provide a Cloudinit or Sysprep script to customize this VM.

☐ ADSF Path  
Start typing for suggestions

☐ Upload A File  
Choose File No file chosen

☒ **Type Or Paste Script**

14. Within the **Type or Paste Script** text box, paste in the Cloud-Init script with the correct **IP address, subnet mask, default gateway**, and **OTP** values for this Connector.

**Create VM**

☒ **Custom Script**  
Provide a Cloudinit or Sysprep script to customize this VM.

☐ ADSF Path  
Start typing for suggestions

☐ Upload A File  
Choose File No file chosen

☒ **Type Or Paste Script**

```

addresses: [192.168.136.205/24]
gateway4: 192.168.136.1

nameservers:
  addresses: [8.8.8.8]
version: 2

runcmd:
  - rm /etc/netplan/50-cloud-init.yaml
  - netplan generate
  - netplan apply
  - [bash, /opt/scripts/brink_connector_deploy_cloud.sh, -o, "96ade4da-fe82-42b5-81cb-5ec76277ed74", -a, "1", -v, "", -p, "", -f, ""]
    
```

Cancel Save

15. Click **Save**.

16. Select the **Connector VM** from the VM table, and then click **Power on** below the table.

Cloudbrink

VM

3

3

Q ? ⚙ admin

VM

☐ Include Controller VMs 1 VM (filtered from 2) search in table

VM Name	Host	IP Addresses	Cores	Memory Capacity	Storage	CPU Usage	Memory Usage	Controller Read IOPS	Controller Write IOPS	Controller IO Bandwidth	Controller Avg IO Latency	Backup ...	Flash Mode
CB-Connector-US-East			4	8 GiB	1.17 GiB / 30 GiB	0%	0%	-	-	-	-	Yes	No

Summary > CB-Connector-US-East

Manage Guest Tools

Launch Console

Power on

Take Snapshot

Migrate

Clone

Update

Delete