Cloudbrink Connector - VMware ESXi

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, hi 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 a VMware environment.

Introduction

This document will guide you to create a Cloudbrink Connector (either single or active-standby pair) in VMware. Steps 9 through 18 must be completed twice in order to create two instances for the active-standby pair.

Prerequisites

- Connector virtual machine VMDK and OVF files should have been provided separately, which can be re-used for any number of Cloudbrink Connectors
- A unique cloud-init ISO file for *each* Connector VM, also provided separately via email
- VMware vCenter account with privilege to upload disk images and create virtual machines

Connector VM Requirements

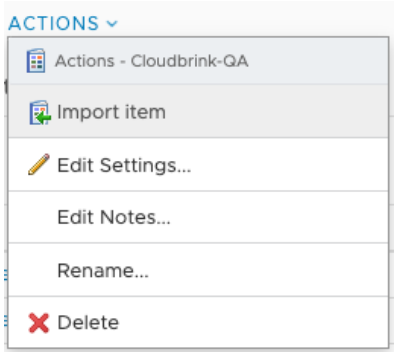
- Compute: 4 CPU and 8GB RAM
- Storage: 50 GB Disk
- Networking: Outbound ports 443 (TCP), and 9993-4 (UDP) to Cloudbrink SaaS and Edge IPs

Connector VM – High Level Instructions

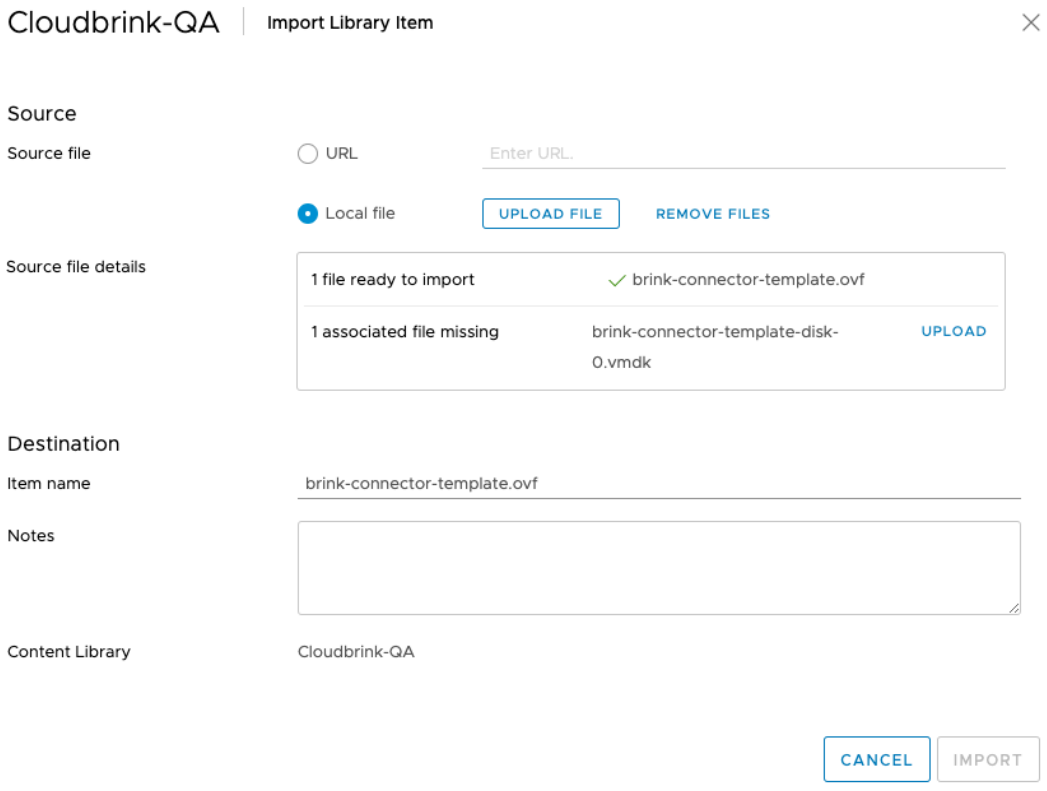
- Deploy 1 (non-HA) or 2 (HA) Connector VMs from provided OVF and VMDK files
- Edit the following settings of the deployed VM(s):
    - Hard disk 1 size: 50 GB
    - Add CD/DVD drive with provided ISO (***unique*** per VM) attached
- Set forged transmits to **Accept** on the attached vSwitch

Connector VM – Detailed Instructions

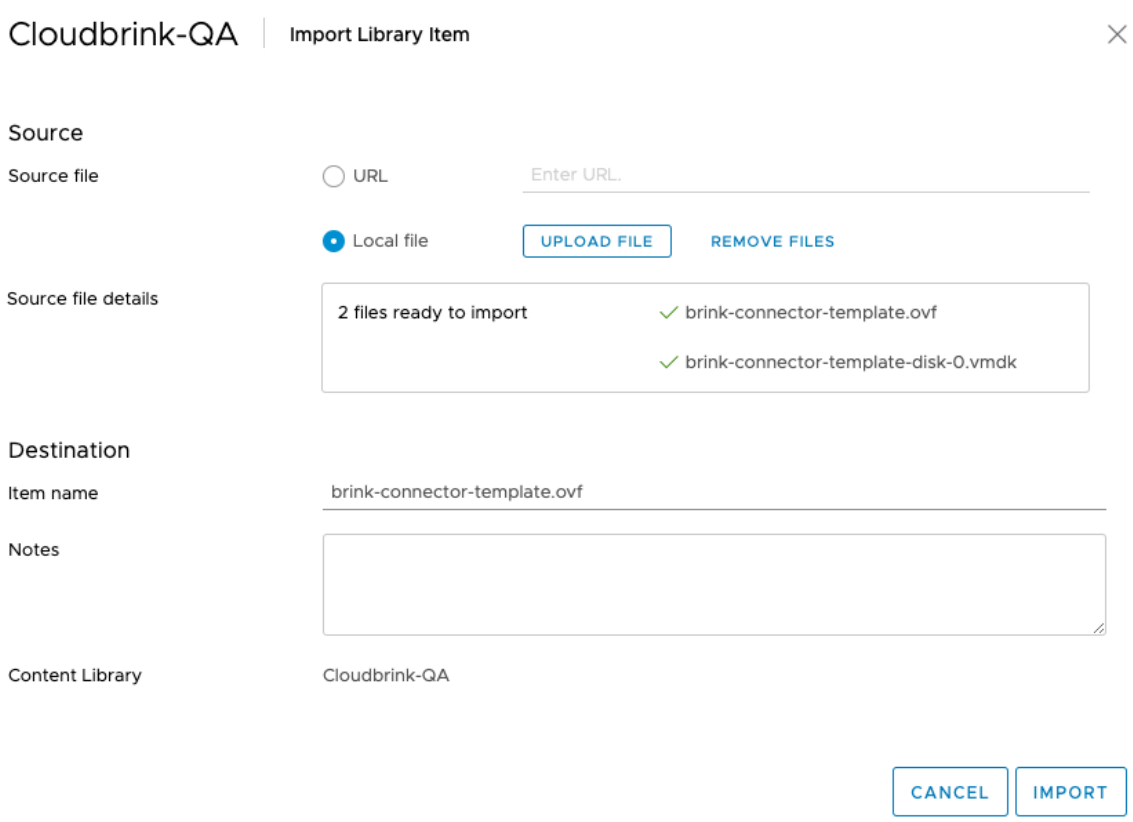
1. Navigate to the **Storage** section of the vCenter UI, and select an appropriate **datastore** and **folder** to upload the cloud-init ISO files, per business requirements.
2. Click **Upload files**, and in your OS file window, select the cloud-init ISO files that were provided to you.
3. Utilizing the dropdown **Menu** at the vCenter UI, select **Content Libraries**.
4. **Select** (or **create**) the Content Library of your choice.
5. Click **Actions** and then **Import item**.



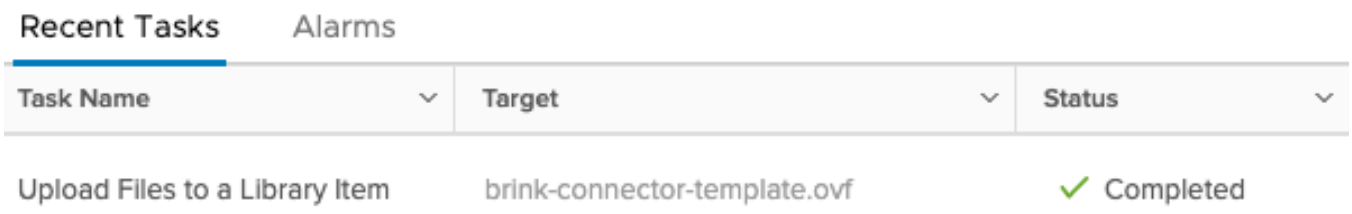
6. In the pop-up, select the **Local file** radio button, and then click **Upload File**. In your OS file window, select the Cloudbrink Connector **OVF** file.



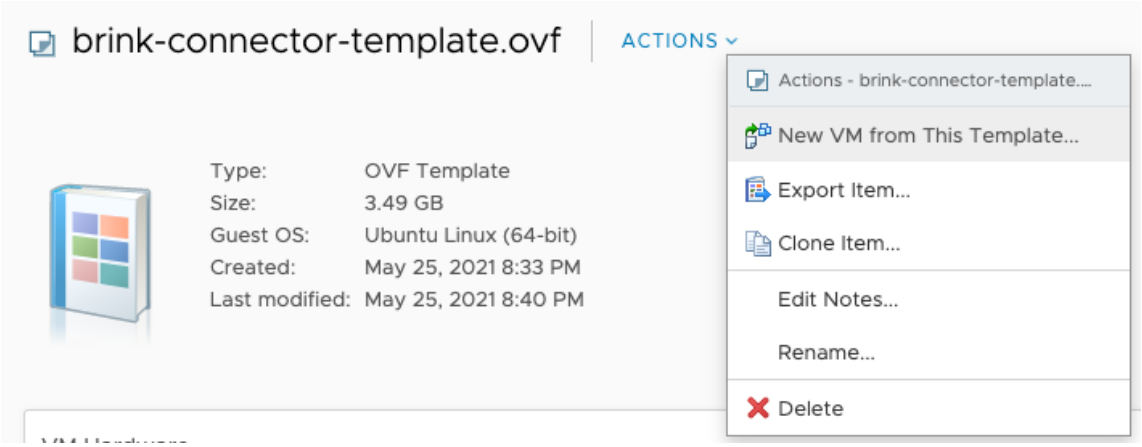
7. Within the **Source file details** section, click the **upload** button in the **1 associated file missing** row, and in your OS window select the Cloudbrink Connector **VMDK** file.



8. Click the **Import** button in the lower right corner of the pop-up, and wait for the upload task to complete.



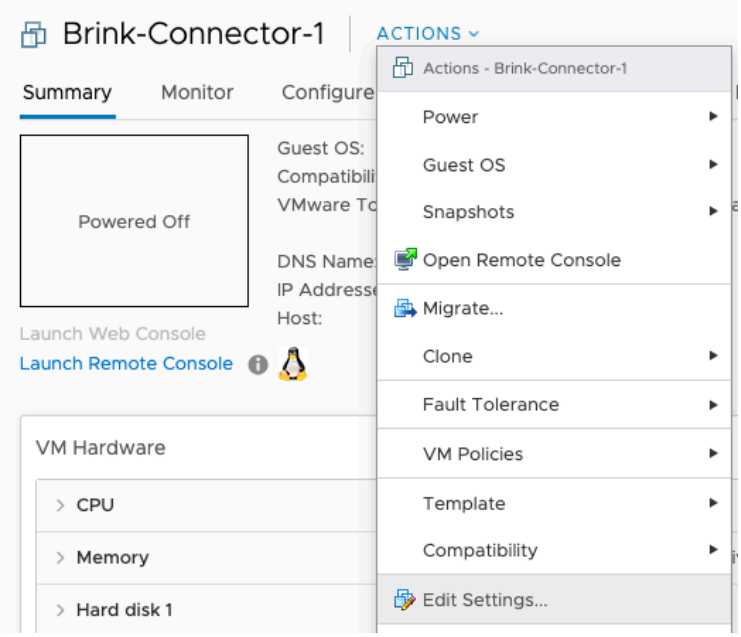
9. From within your Content Library, click on the recently uploaded OVF file, then the **Actions** dropdown, and finally New VM from this Template.



10. Name and select the appropriate location to deploy the Connector VM, per business requirements, and then click **Next**.

11. Continue through the deployment wizard, selecting appropriate resources per business requirements. On the last step, click **Finish**.

12. Once the VM is deployed, navigate to **VMs and Templates**, select the recently deployed VM, click **Actions**, and then **Edit Settings**.



13. Ensure the **CPU** is set to **4**, and the **Memory** to **8 GB**.

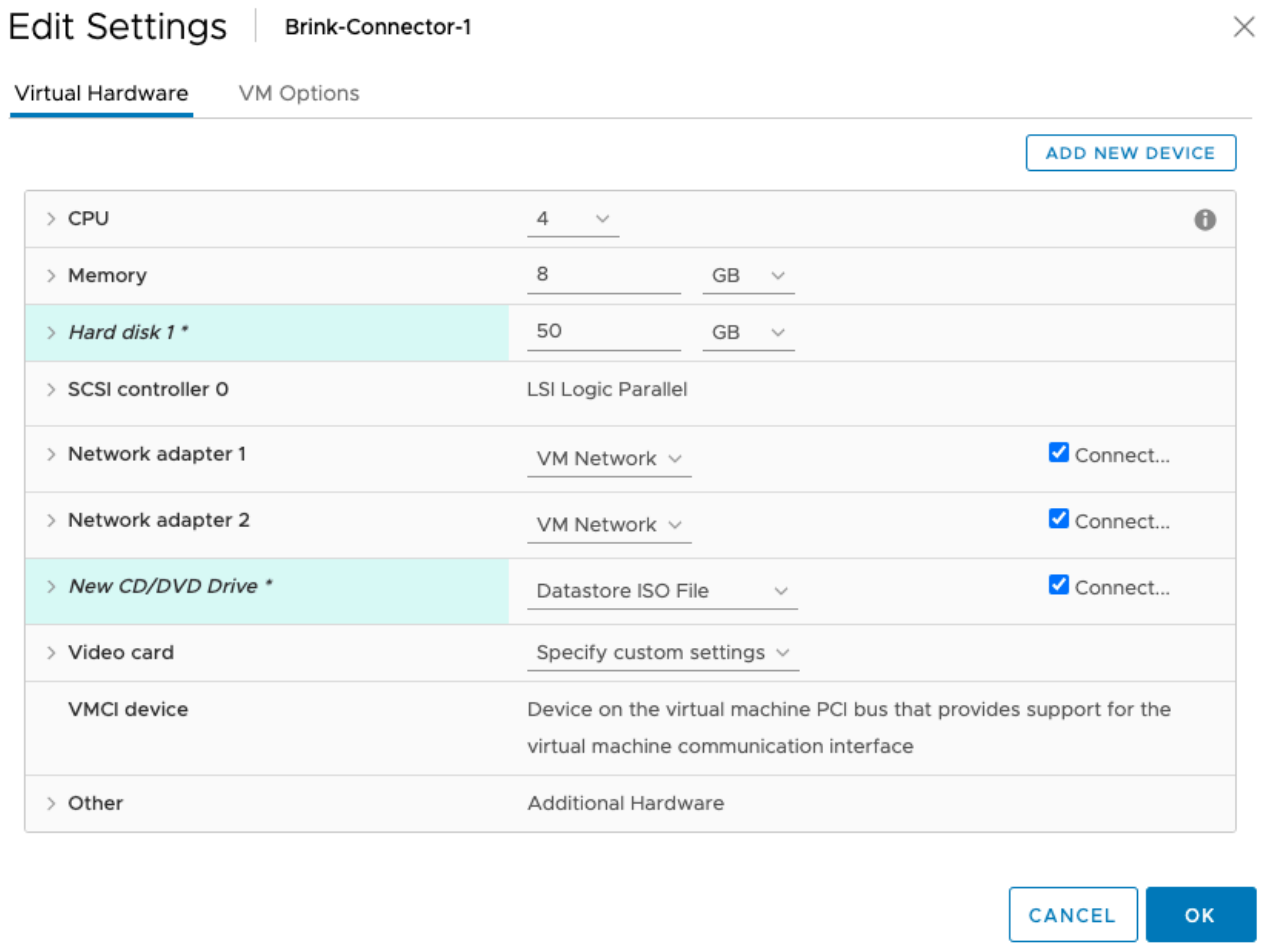
14. Change the VM's **Hard disk 1** size to **50 GB**.

15. Click the **Add New Device** button, then **CD/DVD Drive**.

16. Change the newly added **CD/DVD Drive** dropdown to **Datastore ISO file**, navigate to and **select** the uploaded ISO selected in steps 1-2, and click **Ok**.

17. Click to **enable** the **Connect at Power On** checkbox in the **CD/DVD Drive** entry.

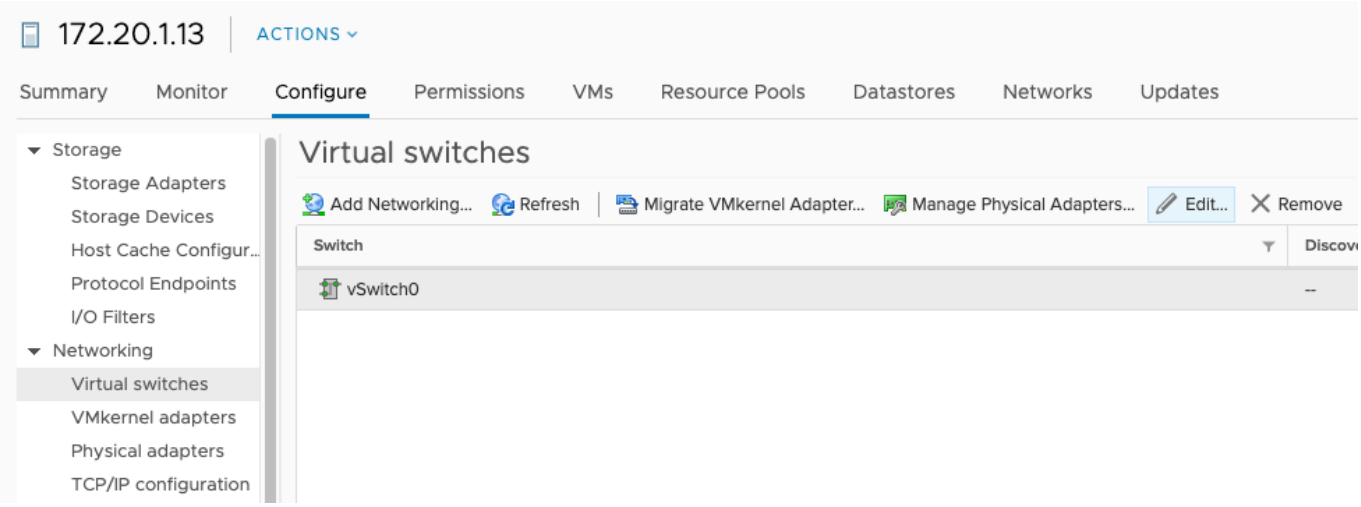
18. Ensure the **Hard disk 1** and the **CD/DVD Drive** entries appear as in the image below, and then click **Ok**.



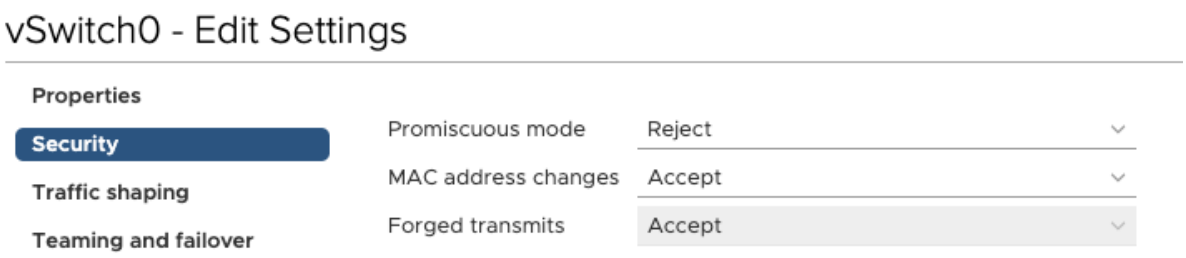
19. Navigate to **Hosts and Clusters** from the vCenter menu, and select the **host** (or cluster) chosen in step 10.

20. In the host UI, select the **Configure** tab, then in the left column under the **Networking** section select **Virtual Switches**.

21. In the **Virtual Switches** table, select the virtual switch chosen in step 10, and then click **Edit**.



22. Select **Security** from the left column, and ensure **Forged transmits** are set to **Accept**.



23. **Repeat** steps 18 through 21 for all vCenter hosts that can host the Connector VMs.

24. Navigate back to **VMs and Templates**, and power on the Connector VM(s).

Corporate Headquarters Cloudbrink, Inc.
530 Lakeside Drive, Suite 190, Sunnyvale, CA 94085

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