NetApp Data Broker 1.0
Quick Start Guide
For SnapCenter Plug-in for VMware vSphere

For SnapCenter 4.2 and later, the SnapCenter Plug-in for VMware vSphere is deployed in the NetApp Data Broker Linux-based virtual appliance.

This Quick Start Guide is a condensed set of instructions for deploying the NetApp Data Broker and enabling the SnapCenter Plug-in for VMware vSphere. The guide is intended for customers who do not have SnapCenter already installed and who want to protect only VMs and datastores.

Preparing for installation | Stage 1

Licensing requirements

The type of licenses you install depends on your environment.

You must provide licenses for…	License requirement
SnapCenter Standard controller-based	Required for FAS or AFF storage controllers
SnapCenter Standard capacity-based	Required with ONTAP Select and ONTAP Cloud
ONTAP	One of these: SnapMirror, SnapVault
Additional products (optional)	vSphere Standard, Enterprise, and Enterprise Plus. If you want to install NetApp Data Broker on a trial basis with FAS or AFF storage, you can obtain a Premium Bundle evaluation license to install on your controller.
Secondary destinations (optional)	SnapCenter Standard licenses **Note:** If SnapCenter Standard licenses are not enabled on secondary systems, you cannot use SnapCenter after performing a failover operation.

Additional requirements

Storage and applications	Minimum requirements
ONTAP	See Interoperability Matrix Tool (IMT)

Hosts	Minimum requirements
Operating System	Linux For the latest information about supported versions, see the [NetApp Interoperability Matrix Tool (IMT).](#)
Minimum CPU	4 cores
Minimum RAM	Minimum: 12 GB Recommended: 16 GB
Minimum hard drive space for the SnapCenter Plug-in for VMware vSphere, logs, and repository	100 GB

Ports	Preconfigured port
SnapCenter Plug-in for VMware vSphere port	8144 (HTTPS), bidirectional The port is used for communications from the vCenter vSphere web client and from the SnapCenter Server. 8080 bidirectional This port is used to manage the virtual appliance. **Note**: You cannot modify the port configuration.
VMware vSphere vCenter Server port	443 (HTTPS), bidirectional The port is used for communication between the SVM host for the SnapCenter Plug-in for VMware vSphere and vCenter.

Software support	Minimum requirements
SnapCenter Plug-in for VMware vCenter	NetApp Data Broker 1.0 or later
vCenter	Flex client: 6.0U3, 6.5U2/U3, 6.7, 6.7U1, 6.7U2 HTML5 client: 6.5U2d/U3, 6.7, 6.7U1, 6.7U2
ESXi	5.5, 6.0 or later
IP addresses	IPv4 IPv6 is not supported
Java	8
.Net Core	2.1
NetApp Data Broker repository	MySQL 8.0.16

SnapCenter Plug-in for VMware vSphere requirements
• You must deploy the NetApp Data Broker virtual appliance as a Linux VM.
• You should deploy the virtual appliance on the vCenter Server.
• In environments with multiple vCenter Servers, you must deploy a separate, unique instance of the virtual appliance for each vCenter Server. Each instance must be installed on a separate Linux VM host.

Deploying NetApp Data Broker | Stage 2

Downloading the NetApp Data Broker OVA (Open Virtual Appliance)

The `.ova` file includes the following:

- A set of microservices for VM and datastore data protection, which are performed by the SnapCenter Plug-in for VMware vSphere
- NetApp Data Broker, which facilitates the virtual appliance

Attention: The download process does not check for an existing `.ova` file. Therefore, before downloading you must make sure no other NetApp Data Broker `.ova` file exists on the vCenter.

1. Log in to the NetApp Support Site (https://mysupport.netapp.com), then click the **Downloads** menu and select **Software**.
2. From the list of products, select **NetApp Data Broker**, then select the **VMware vSphere** platform, and then click **Go!**.
3. Follow the instructions on the product description page until you reach the download page.
4. Download the NetApp Data Broker `.ova` file to any location.

Deploying the NetApp Data Broker virtual appliance

1. In your browser, navigate to VMware vSphere vCenter.
2. On the VMware screen, click **vSphere Web Client (Flex)** and then log in to the **VMware vCenter Single Sign-On** page.
3. Right-click any inventory object that is a valid parent object of a virtual machine, such as a datacenter, folder, cluster, or host, and select **Deploy OVF Template** to start the wizard.
4. On the **Select an OVF template** page, specify the location of the NetAppDataBroker.ova file and click **Next**.

On this wizard page…	Do this…
Select a name and folder	Enter a unique name for the VM or vApp, and select a deployment location.
Select a compute resource	Select a resource where you want to run the deployed VM template.
Review details	Verify the .ova template details.
License agreements	Select the checkbox for **I accept all license agreements.**
Select storage	Define where and how to store the files for the deployed OVF template.

On this wizard page…	Do this…
Select networks	Select a source network and map it to a destination network.
Customize template	a. In **Register to existing vCenter**, enter the vCenter credentials. b. In **Create NetApp Data Broker credentials**, enter the NetApp Data Broker credentials. **Attention**: Make a note of the username and password that you specify. You need to use these credentials if you want to modify the virtual appliance configuration at a later time. c. In **Setup Network Properties**, enter the network information. d. In **Setup Date and Time**, select the time zone where the vCenter is located.
Ready to complete	Review the page and click **Finish.**

Note: All hosts must be configured with IP addresses (FQDN hostnames are not supported). The deploy operation does not validate your input before deploying.

5. Navigate to the VM where the virtual appliance was deployed, then click the **Summary** tab, and then click the **Power On** box to start the virtual appliance.

6. While the virtual appliance is powering on, right-click the deployed virtual appliance and then click **Install VMware tools**.

The deployment might take a few minutes to complete. A successful deployment is indicated when the virtual appliance is powered on, the VMware tools are installed, and the screen prompts you to log in to the NetApp Data Broker.

The screen displays the IP address where the NetApp Data Broker virtual appliance is deployed. Make a note of that location. You need to log in to the NetApp Data Broker UI if you want to make changes to the virtual appliance configuration.

7. Log in to NetApp Data Broker using the IP address displayed on the deployment screen using the credentials that you provided in the deployment wizard, then verify on the Dashboard that the virtual appliance is successfully connected to vCenter and the SnapCenter Plug-in for VMware vSphere is enabled and connected.

Use the format `https://<OVA-IP-address>:8080` to access the NetApp Data Broker.

By default, the maintenance console user name is set to "maint" and the password is set to "admin123".

8. Log in to vCenter (Flex or HTML5 client), then right-click (home) in the toolbar, and then select **SnapCenter Plug-in for VMware vSphere**.

Backing up a VM or datastore | Stage 3

Adding storage

1. In the left Navigator pane of the vSphere web client, click **Storage Systems** and then click **+Add.**

2. On the **Add Storage System** dialog box, enter the basic SVM or cluster information, and then click **Add**.

Creating backup policies

1. In the left Navigator pane of the vSphere web client, click **Policies**, and then click ✚**New Policy.**
2. On the **New Backup Policy** page, enter the policy configuration information, and then click **Add**.

   Note: If the policy will be used for mirror-vault relationships, then in the Replication field you must select **Update SnapVault after backup**.

Creating resource groups

1. In the left Navigator pane of the vSphere web client, click **Resource Groups,** and then click ✚ (**Create Resource Group**).
2. Enter the required information on each page of the Create Resource Group wizard, select VMs and datastores to be included in the resource groups, and then select the backup policies to be applied to the resource group and specify the backup schedule.

Backups are performed as specified in the backup policies that are configured for the resource group.

You can perform a backup on demand from the **Resource Groups** page by clicking (**Run Now**).

Where to find additional information

- NetApp Data Broker Deployment Guide for SnapCenter Plug-in for VMware vSphere
- NetApp Data Broker Data Protection Guide for SnapCenter Plug-in for VMware vSphere
- NetApp Data Broker Release Notes
- NetApp Interoperability Matrix Tool (IMT)