



Installing the data broker in Azure

Cloud Manager

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Installing the data broker in Azure

When you create a sync relationship, choose the Azure Data Broker option to deploy the data broker software on a new virtual machine in a VNet. Cloud Sync guides you through the installation process, but the requirements and steps are repeated on this page to help you prepare for installation.

You also have the option to install the data broker on an existing Linux host in the cloud or on your premises. [Learn more](#).

Supported Azure regions

All regions are supported except for the China, US Gov, and US DoD regions.

Networking requirements

- The data broker needs an outbound internet connection so it can poll the Cloud Sync service for tasks over port 443.

When Cloud Sync deploys the data broker in Azure, it creates a security group that enables the required outbound communication.

If you need to limit outbound connectivity, see [the list of endpoints that the data broker contacts](#).

- NetApp recommends configuring the source, target, and data broker to use a Network Time Protocol (NTP) service. The time difference between the three components should not exceed 5 minutes.

Authentication method

When you deploy the data broker, you'll need to choose an authentication method: a password or an SSH public-private key pair.

For help with creating a key pair, refer to [Azure Documentation: Create and use an SSH public-private key pair for Linux VMs in Azure](#).

Installing the data broker


You can install a data broker in Azure when you create a sync relationship.

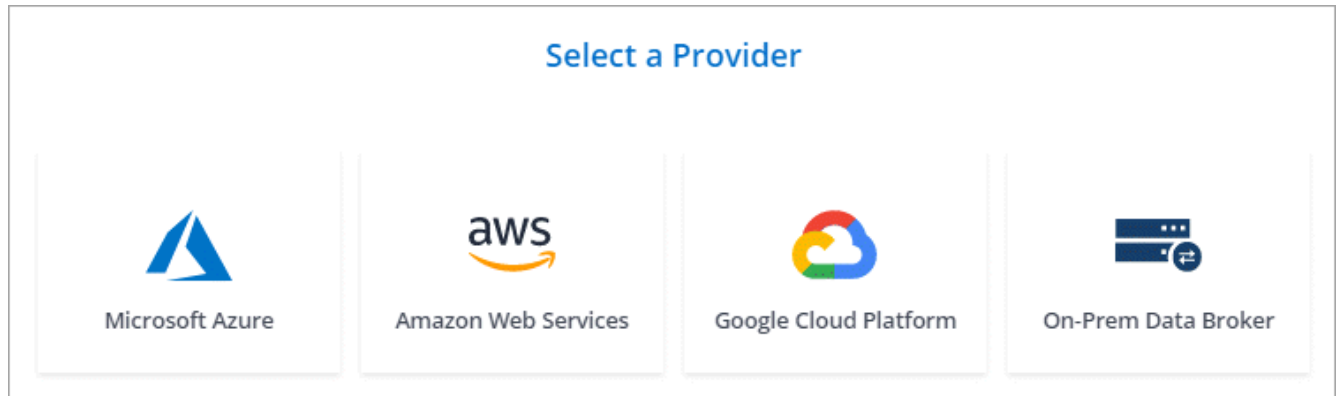
Steps

1. Click **Create New Sync**.
2. On the **Define Sync Relationship** page, choose a source and target and click **Continue**.

Complete the pages until you reach the **Data Broker** page.

3. On the **Data Broker** page, click **Create Data Broker** and then select **Microsoft Azure**.

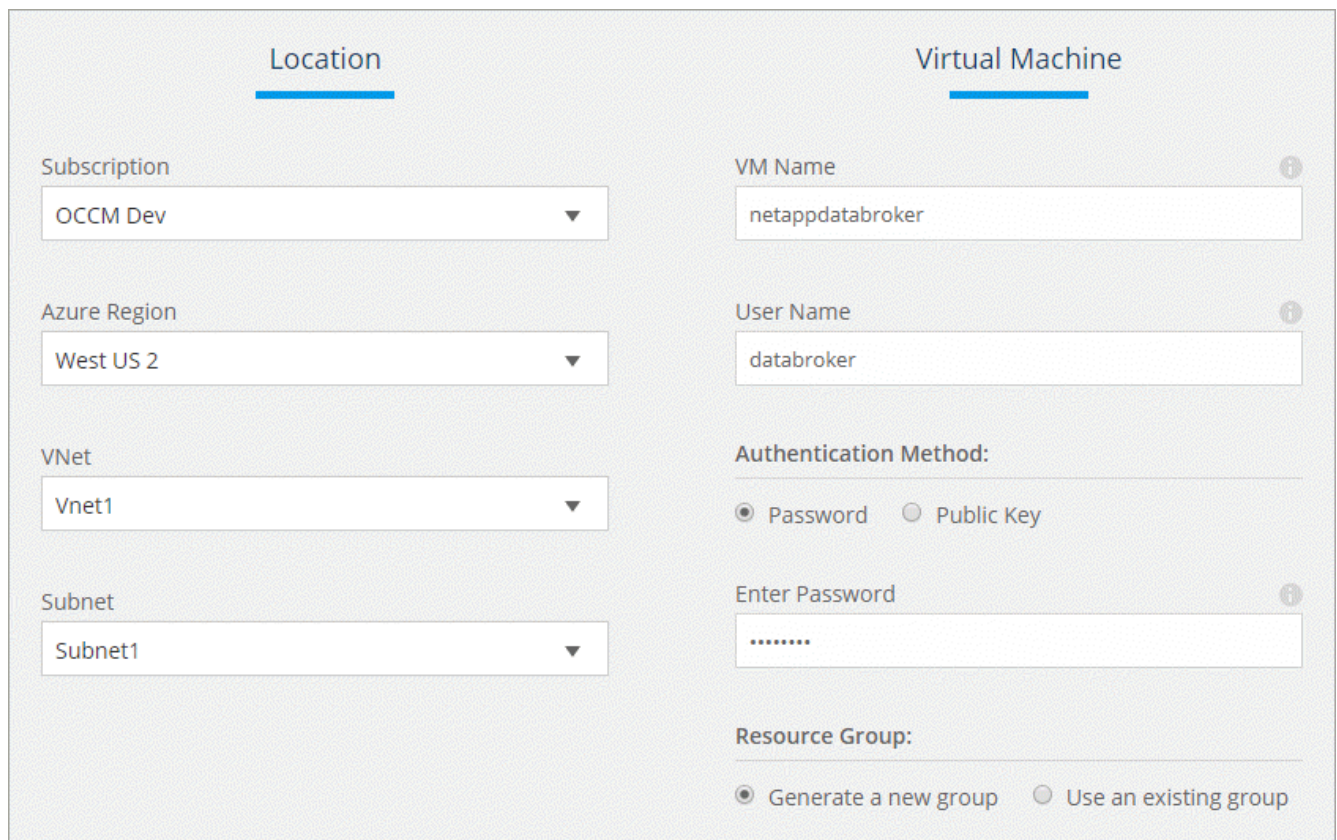
If you already have a data broker, you'll need to click the  icon first.



4. Enter a name for the data broker and click **Continue**.
5. If you're prompted, log in to your Microsoft account. If you're not prompted, click **Log in to Azure**.

The form is owned and hosted by Microsoft. Your credentials are not provided to NetApp.

6. Choose a location for the data broker and enter basic details about the virtual machine.

The image shows a configuration page with two main sections: 'Location' and 'Virtual Machine'. Under 'Location', there are four dropdown menus: 'Subscription' (OCCM Dev), 'Azure Region' (West US 2), 'VNet' (Vnet1), and 'Subnet' (Subnet1). Under 'Virtual Machine', there are three input fields: 'VM Name' (netappdatabroker), 'User Name' (databroker), and 'Enter Password' (masked with dots). There are also two radio button options: 'Authentication Method' (Password selected, Public Key) and 'Resource Group' (Generate a new group selected, Use an existing group). Information icons are present next to the VM Name, User Name, and Enter Password fields.

7. Click **Continue** and keep the page open until the deployment is complete.

The process can take up to 7 minutes.

8. In Cloud Sync, click **Continue** once the data broker is available.
9. Complete the pages in the wizard to create the new sync relationship.

Result

You have deployed a data broker in Azure and created a new sync relationship. You can use this data broker with additional sync relationships.

Getting a message about needing admin consent?

If Microsoft notifies you that admin approval is required because Cloud Sync needs permission to access resources in your organization on your behalf, then you have two options:

1. Ask your AD admin to provide you with the following permission:

In Azure, go to **Admin Centers > Azure AD > Users and Groups > User Settings** and enable **Users can consent to apps accessing company data on their behalf**.

2. Ask your AD admin to consent on your behalf to **CloudSync-AzureDataBrokerCreator** using the following URL (this is the admin consent endpoint):

`https://login.microsoftonline.com/{FILL HERE YOUR TENANT ID}/v2.0/adminconsent?client_id=8ee4ca3a-bafa-4831-97cc-5a38923cab85&redirect_uri=https://cloudsync.netapp.com&scope=https://management.azure.com/user_impersonationhttps://graph.microsoft.com/User.Read`

As shown in the URL, our app URL is `https://cloudsync.netapp.com` and the application client ID is `8ee4ca3a-bafa-4831-97cc-5a38923cab85`.

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