



Create from the marketplace

Cloud Manager

NetApp

March 22, 2022

Table of Contents

- Create from the marketplace 1
 - Creating a Connector from the AWS Marketplace 1
 - Creating a Connector from the Azure Marketplace 4

Create from the marketplace

Creating a Connector from the AWS Marketplace

It's best to create a Connector directly from Cloud Manager, but you can launch a Connector from the AWS Marketplace, if you'd rather not specify AWS access keys. After you create and set up the Connector, Cloud Manager will automatically use it when you create new working environments.

Steps

1. Create an IAM policy and role for the EC2 instance:
 - a. Download the Cloud Manager IAM policy from the following location:
[NetApp Cloud Manager: AWS, Azure, and GCP Policies](#)
 - b. From the IAM console, create your own policy by copying and pasting the text from the Cloud Manager IAM policy.
 - c. Create an IAM role with the role type Amazon EC2 and attach the policy that you created in the previous step to the role.
2. Now go to the [Cloud Manager page on the AWS Marketplace](#) to deploy Cloud Manager from an AMI.

The IAM user must have AWS Marketplace permissions to subscribe and unsubscribe.

3. On the Marketplace page, click **Continue to Subscribe** and then click **Continue to Configuration**.

a

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[Solutions](#)
[Migration Mapping Assistant](#)
[Your Saved List 2](#)
[Partners](#)
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Cloud Manager - Manual Installation without access keys

By: [NetApp, Inc.](#) Latest Version: 3.8.4

Read below for instructions on how to deploy Cloud Volumes ONTAP.

Linux/Unix ★★★★★ 6 AWS reviews

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Save to List

Typical Total Price

\$0.226/hr

Total pricing per instance for services hosted on t3.xlarge in US East (N. Virginia). [View Details](#)

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Usage
Support
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Product Overview

Do NOT subscribe on this page unless instructed by NetApp or redirected here from the NetApp website.

This listing lets you manually launch a Cloud Manager instance without providing your AWS credentials. After launching the Cloud Manager software in AWS, you can access it by entering the instance's IP address in a web browser. If you subscribe here, you still need to subscribe on the listing below for PAYGO charges.

Highlights

- See Product Overview for instructions on how to deploy NetApp Cloud Manager.

b

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4. Change any of the default options and click **Continue to Launch**.
5. Under **Choose Action**, select **Launch through EC2** and then click **Launch**.

These steps describe how to launch the instance from the EC2 Console because the console enables you to attach an IAM role to the Cloud Manager instance. This isn't possible using the **Launch from Website** action.

6. Follow the prompts to configure and deploy the instance:
 - **Choose Instance Type**: Depending on region availability, choose one of the supported instance types (t3.xlarge is recommended).

[Review the instance requirements.](#)

- **Configure Instance:** Select a VPC and subnet, choose the IAM role that you created in step 1, enable termination protection (recommended), and choose any other configuration options that meet your requirements.

| | | |
|--|---|--|
| Number of instances ⓘ | <input type="text" value="1"/> | Launch into Auto Scaling Group ⓘ |
| Purchasing option ⓘ | <input type="checkbox"/> Request Spot instances | |
| Network ⓘ | <input type="text" value="vpc-a76d91c2 VPC4QA (default)"/> | Create new VPC |
| Subnet ⓘ | <input type="text" value="subnet-39536c13 QASubnet1 us-east-1b"/> 155 IP Addresses available | Create new subnet |
| Auto-assign Public IP ⓘ | <input type="text" value="Enable"/> | |
| Placement group ⓘ | <input type="checkbox"/> Add instance to placement group | |
| Capacity Reservation ⓘ | <input type="text" value="Open"/> | Create new Capacity Reservation |
| IAM role ⓘ | <input type="text" value="Cloud_Manager"/> | Create new IAM role |
| CPU options ⓘ | <input type="checkbox"/> Specify CPU options | |
| Shutdown behavior ⓘ | <input type="text" value="Stop"/> | |
| Enable termination protection ⓘ | <input checked="" type="checkbox"/> Protect against accidental termination | |
| Monitoring ⓘ | <input type="checkbox"/> Enable CloudWatch detailed monitoring Additional charges apply. | |

- **Add Storage:** Keep the default storage options.
- **Add Tags:** Enter tags for the instance, if desired.
- **Configure Security Group:** Specify the required connection methods for the Connector instance: SSH, HTTP, and HTTPS.
- **Review:** Review your selections and click **Launch**.

AWS launches the software with the specified settings. The Connector instance and software should be running in approximately five minutes.

7. Open a web browser from a host that has a connection to the Connector instance and enter the following URL:

`http://ipaddress:80`

8. After you log in, set up the Connector:
 - a. Specify the NetApp account to associate with the Connector.

[Learn about NetApp accounts.](#)

- b. Enter a name for the system.



Result

The Connector is now installed and set up with your NetApp account. Cloud Manager will automatically use this Connector when you create new working environments. But if you have more than one Connector, you'll need to [switch between them](#).

Creating a Connector from the Azure Marketplace

It's best to create a Connector directly from Cloud Manager, but you can launch a Connector from the Azure Marketplace, if you prefer. After you create and set up the Connector, Cloud Manager will automatically use it when you create new working environments.

Creating a Connector in Azure

Deploy the Connector in Azure using the image in the Azure Marketplace and then log in to the Connector to specify your NetApp account.

Steps

1. [Go to the Azure Marketplace page for Cloud Manager](#).
2. Click **Get it now** and then click **Continue**.
3. From the Azure portal, click **Create** and follow the steps to configure the virtual machine.

Note the following as you configure the VM:

- Cloud Manager can perform optimally with either HDD or SSD disks.
- Choose a VM size that meets CPU and RAM requirements. We recommend DS3 v2.

[Review the VM requirements.](#)

- For the network security group, the Connector requires inbound connections using SSH, HTTP, and HTTPS.

[Learn more about security group rules for the Connector.](#)

- Under **Management**, enable **System assigned managed identity** for the Connector by selecting **On**.

This setting is important because a managed identity allows the Connector virtual machine to identify itself to Azure Active Directory without providing any credentials. [Learn more about managed identities for Azure resources.](#)

4. On the **Review + create** page, review your selections and click **Create** to start the deployment.

Azure deploys the virtual machine with the specified settings. The virtual machine and Connector software should be running in approximately five minutes.

5. Open a web browser from a host that has a connection to the Connector virtual machine and enter the following URL:

`http://ipaddress:80`

6. After you log in, set up the Connector:

- a. Specify the NetApp account to associate with the Connector.

[Learn about NetApp accounts.](#)

- b. Enter a name for the system.



Result

The Connector is now installed and set up. You must grant Azure permissions before users can deploy Cloud Volumes ONTAP in Azure.

Granting Azure permissions

When you deployed the Connector in Azure, you should have enabled a [system-assigned managed identity](#). You must now grant the required Azure permissions by creating a custom role and then by assigning the role to the Connector virtual machine for one or more subscriptions.

Steps

1. Create a custom role using the Cloud Manager policy:
 - a. Download the [Cloud Manager Azure policy](#).
 - b. Modify the JSON file by adding Azure subscription IDs to the assignable scope.

You should add the ID for each Azure subscription from which users will create Cloud Volumes ONTAP systems.

Example

```
"AssignableScopes": [  
  "/subscriptions/d333af45-0d07-4154-943d-c25fbzzzzzzz",  
  "/subscriptions/54b91999-b3e6-4599-908e-416e0zzzzzzz",
```


"/subscriptions/398e471c-3b42-4ae7-9b59-ce5bbzzzzzzzz"

- c. Use the JSON file to create a custom role in Azure.

The following example shows how to create a custom role using the Azure CLI 2.0:

```
az role definition create --role-definition  
C:\Policy_for_cloud_Manager_Azure_3.9.8.json
```

You should now have a custom role called Cloud Manager Operator that you can assign to the Connector virtual machine.

2. Assign the role to the Connector virtual machine for one or more subscriptions:

- a. Open the **Subscriptions** service and then select the subscription in which you want to deploy Cloud Volumes ONTAP systems.
- b. Click **Access control (IAM) > Add > Add role assignment**.
- c. In the **Role** tab, select the **Cloud Manager Operator** role and click **Next**.



Cloud Manager Operator is the default name provided in the [Cloud Manager policy](#). If you chose a different name for the role, then select that name instead.

- d. In the **Members** tab, complete the following steps:
 - Assign access to a **Managed identity**.
 - Click **Select members**, select the subscription in which the Connector virtual machine was created, choose **Virtual machine**, and then select the Connector virtual machine.
 - Click **Select**.
 - Click **Next**.
- e. Click **Review + assign**.
- f. If you want to deploy Cloud Volumes ONTAP from additional subscriptions, switch to that subscription and then repeat these steps.

Result

The Connector now has the permissions that it needs to manage resources and processes within your public cloud environment. Cloud Manager will automatically use this Connector when you create new working environments. But if you have more than one Connector, you'll need to [switch between them](#).

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