



# **Managing AWS credentials and subscriptions for Cloud Manager**

## **Cloud Manager**

Ben Cammett  
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# Managing AWS credentials and subscriptions for Cloud Manager

When you create a Cloud Volumes ONTAP system, you need to select the AWS credentials and subscription to use with that system. If you manage multiple AWS subscriptions, you can assign each one of them to different AWS credentials from the Credentials page.

Before you add AWS credentials to Cloud Manager, you need to provide the required permissions to that account. The permissions enable Cloud Manager to manage resources and processes within that AWS account. How you provide the permissions depends on whether you want to provide Cloud Manager with AWS keys or the ARN of a role in a trusted account.



When you deployed a Connector from Cloud Manager, Cloud Manager automatically added AWS credentials for the account in which you deployed the Connector. This initial account is not added if you manually installed the Connector software on an existing system. [Learn about AWS credentials and permissions.](#)

## Choices

- [Granting permissions by providing AWS keys](#)
- [Granting permissions by assuming IAM roles in other accounts](#)

### How can I securely rotate my AWS credentials?

Cloud Manager enables you to provide AWS credentials in a few ways: an IAM role associated with the Connector instance, by assuming an IAM role in a trusted account, or by providing AWS access keys. [Learn more about AWS credentials and permissions.](#)

With the first two options, Cloud Manager uses the AWS Security Token Service to obtain temporary credentials that rotate constantly. This process is the best practice, it's automatic and it's secure.

If you provide Cloud Manager with AWS access keys, you should rotate the keys by updating them in Cloud Manager at a regular interval. This is a completely manual process.

## Granting permissions by providing AWS keys

If you want to provide Cloud Manager with AWS keys for an IAM user, then you need to grant the required permissions to that user. The Cloud Manager IAM policy defines the AWS actions and resources that Cloud Manager is allowed to use.

### Steps

1. Download the Cloud Manager IAM policy from the [Cloud Manager Policies page](#).
2. From the IAM console, create your own policy by copying and pasting the text from the Cloud Manager IAM policy.

[AWS Documentation: Creating IAM Policies](#)

3. Attach the policy to an IAM role or an IAM user.
  - [AWS Documentation: Creating IAM Roles](#)
  - [AWS Documentation: Adding and Removing IAM Policies](#)

### Result

The account now has the required permissions. [You can now add it to Cloud Manager.](#)

## Granting permissions by assuming IAM roles in other accounts

You can set up a trust relationship between the source AWS account in which you deployed the Connector instance and other AWS accounts by using IAM roles. You would then provide Cloud Manager with the ARN of the IAM roles from the trusted accounts.

### Steps

1. Go to the target account where you want to deploy Cloud Volumes ONTAP and create an IAM role by selecting **Another AWS account**.

Be sure to do the following:

- Enter the ID of the account where the Connector instance resides.
- Attach the Cloud Manager IAM policy, which is available from the [Cloud Manager Policies](#) page.

2. Go to the source account where the Connector instance resides and select the IAM role that is attached to the instance.
  - a. Click **Attach policies** and then click **Create policy**.
  - b. Create a policy that includes the "sts:AssumeRole" action and the ARN of the role that you created in the target account.

### Example

```
{
  "Version": "2012-10-17",
  "Statement": {
    "Effect": "Allow",
    "Action": "sts:AssumeRole",
    "Resource": "arn:aws:iam::ACCOUNT-B-ID:role/ACCOUNT-B-ROLENAM"
  }
}
```

### Result

The account now has the required permissions. [You can now add it to Cloud Manager.](#)

# Adding AWS credentials to Cloud Manager

After you provide an AWS account with the required permissions, you can add the credentials for that account to Cloud Manager. This enables you to launch Cloud Volumes ONTAP systems in that account.

## Before you get started

If you just created these credentials in your cloud provider, it might take a few minutes until they are available for use. Wait a few minutes before you add the credentials to Cloud Manager.

## Steps

1. In the upper right of the Cloud Manager console, click the Settings icon, and select **Credentials**.



2. Click **Add Credentials** and select **AWS**.
3. Provide AWS keys or the ARN of a trusted IAM role.
4. Confirm that the policy requirements have been met and click **Continue**.
5. Choose the subscription that you want to associate with the credentials, or click **Add Subscription** if you don't have one yet.

To pay for Cloud Volumes ONTAP at an hourly rate (PAYGO) or with an annual contract, AWS credentials must be associated with a subscription to Cloud Volumes ONTAP from the AWS Marketplace.

6. Click **Add**.

## Result

You can now switch to a different set of credentials from the Details and Credentials page when creating a new working environment:

## Edit Account & Add Subscription

### Credentials

Keys | Account ID: [REDACTED]

Instance Profile | Account ID: [REDACTED]

QA Subscription

### Associate Subscription to Credentials

To create a pay-as-you-go Cloud Volumes ONTAP system, you need to select AWS credentials that are associated with a subscription to Cloud Volumes ONTAP from the AWS Marketplace.

[+ Add Subscription](#)

Apply

Cancel

## Associating an AWS subscription to credentials

After you add your AWS credentials to Cloud Manager, you can associate an AWS Marketplace subscription with those credentials. The subscription enables you to pay for Cloud Volumes ONTAP at an hourly rate (PAYGO) or using an annual contract, and to use other NetApp cloud services.

There are two scenarios in which you might associate an AWS Marketplace subscription after you've already added the credentials to Cloud Manager:

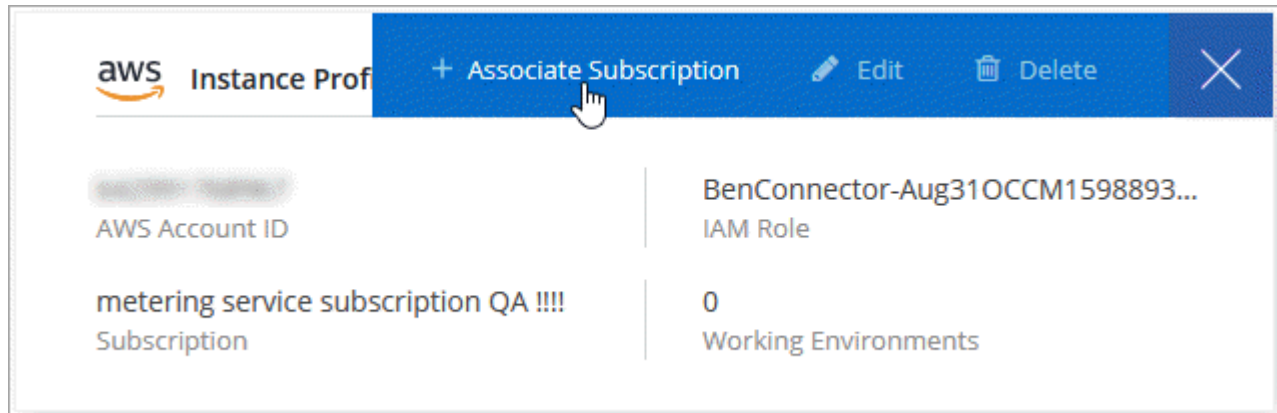
- You didn't associate a subscription when you initially added the credentials to Cloud Manager.
- You want to replace an existing AWS Marketplace subscription with a new subscription.

### What you'll need

You need to create a Connector before you can change Cloud Manager settings. [Learn how.](#)

## Steps

1. In the upper right of the Cloud Manager console, click the Settings icon, and select **Credentials**.
2. Hover over a set of credentials and click the action menu.
3. From the menu, click **Associate Subscription**.



4. Select a subscription from the down-down list or click **Add Subscription** and follow the steps to create a new subscription.

► [https://docs.netapp.com/us-en/occm//media/video\\_subscribing\\_aws.mp4](https://docs.netapp.com/us-en/occm//media/video_subscribing_aws.mp4) (video)

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