



Collecting and reporting AWS billing data

OnCommand Insight

NetApp
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Collecting and reporting AWS billing data

The Amazon AWS Cloud Cost data source imports billing data generated by Amazon into Insight as integration data, making it available to the data warehouse for reporting.

There are three parts to making cloud billing data available to Insight:

Verifying your AWS account information.

Configuring the AWS Cloud Cost data source in Insight to collect the data.

Sending the data to Data Warehouse via ETL for use in reports.

Preparing AWS for Insight data collection

Your AWS account must be properly configured to allow Insight to collect cloud cost data.

About this task

The following steps are done through your AWS account. See the Amazon documentation for more information: <http://docs.aws.amazon.com>. If you are unfamiliar with setting up an AWS cloud account, contact your cloud provider for assistance.



These steps are provided here as a courtesy and are believed correct as of the time of publication. NetApp makes no guarantee of the correctness of these steps. Contact your cloud provider or AWS account holder for information or assistance on configuring your AWS account.

Best practice: Insight recommends that you create a primary IAM user on the same account that owns the S3 bucket where the billing reports are uploaded, and use this user to configure and collect AWS billing data.

To configure your AWS account to allow Insight to collect data, perform the following steps:

Steps

1. Log in to your AWS account as an Identity Access Management (IAM) user. For proper collection, log in to the primary IAM account, as opposed to a group IAM account.
2. Go to **Amazon S3** to create your bucket. Enter a unique bucket name and verify the correct Region.
3. Turn on your Amazon Cost and Usage Report. See <https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/billing-reports-gettingstarted-turnonreports.html> for information.
 - a. Go to the **AWS Billing and Cost Management Dashboard** and choose **Reports**.
 - b. Click on **Create report** and enter in the Report Name. For **Time unit**, choose Daily. Check the box to include **Resource IDs**, and click **Next**.
 - c. Click on the **Sample Policy** link in the Select delivery options page. Copy the Sample Policy text in the box to the clipboard. Click **Close**.
 - d. Go back to the S3 Bucket that was created, click on the **Permissions** tab and select the **Bucket Policy** button.
 - e. Paste the text from the Sample Policy, and replace <bucketname> with your actual bucket name in each line that contains the following: "Resource": "arn:aws:s3:: <bucketname>". **Save the**

policy.

- f. Go back to your Create Report screen, enter in your S3 Bucket and click the **Verify** button. Click **Next**.
- g. Verify your information and click **Review and Complete**.
4. You must grant permissions in order for Insight to collect data from AWS. The following link provides details on how to grant permissions to **List All Buckets** (Step 4.1) and set permissions on the objects in the folder (Step 5.2): <https://docs.aws.amazon.com/AmazonS3/latest/dev/walkthrough1.html>.
5. In the IAM console, go to **Policies** and click **Create policy**.
6. Enter a name in the **Policy Name** field, and click **Create policy** at the bottom.
7. In the IAM console, select your user, then select **Add Inline Policy** at the bottom of the screen.
8. Click on **Choose a service** and select S3.
9. Go to the **JSON** tab. Copy the JSON sample text from step 5.1.2.g of the AWS walkthrough into the JSON box.
10. Replace the *companybucket* and *Development* fields in the JSON with your S3 information.
11. Click **Review Policy** to review your policy settings.

Configuring the AWS Cloud Cost data source

You configure the AWS Cloud Cost data source as you would for any Insight data source.

Before you begin

You must have your Amazon AWS account already set up and prepared for Insight data collection, and have the following pieces of information at hand.

- Report Name
- S3 Bucket Name
- AWS Region where your S3 bucket resides.
- Report path prefix

About this task

Once your AWS account is ready and has the proper permissions set, you are ready to configure OnCommand Insight to collect billing report data.



You will need to add a separate AWS Cloud Cost data source for each billable user/account from which you wish to retrieve billing data.

Steps

1. Log in to OnCommand Insight as an administrator.
2. Click on **Admin > Data sources** to open the Insight Data Source page.
3. Click **+Add** to add a new data source. Choose **Amazon** and select **AWS Cloud Cost**.
4. In the **Configuration** section, fill in the *Report name*, *S3 Bucket name*, *S3 Region* (must be the region where your S3 bucket resides), *Report path prefix*, *AWS IAM Access Key ID*, and *AWS IAM Secret Access Key*. If you are unsure of any of these, check with your cloud provider or AWS account holder.

5. Click the checkbox to verify your understanding that AWS will bill you for API requests and data transfers made by the Insight data source.
6. In **Advanced Configuration**, enter the HTTP connection and socket timeout. The default is 300 seconds.
7. Click **Save**.

Processing AWS Cloud Cost data in Insight

Insight collects data from your AWS billing report once a month for the previous month, and reflects the finalized cloud cost for that month.

After you set up your AWS Cloud Cost data source(s), if you already had billing reports generated to S3, you will get up to three months of past data immediately after the first data source poll.

Insight collects AWS “final” data once a month. This collection occurs a few days after the close of the previous month, allowing AWS time to finalize the actual data.

AWS billing data is sent to Insight's Data Warehouse for use in reporting.

Keep in mind that each data source must be configured for a single billable account/user.

Reporting on Cloud Cost data in Insight

Cloud cost monthly data collected in Insight is sent to the data warehouse and is available in the Cloud Cost datamart for use in reports.

Before you begin

You must have data sources configured to collect cloud cost data from AWS. Each billable user/account must have a separate data source.

Allow Insight at least 36 hours to begin collecting data.

Allow ETL to run at least once after that time, to send the data to the data warehouse.

About this task

After your data has been collected and sent to the data warehouse, you can view it in any of several pre-configured reports, or create custom reports. Insight stores the data in its own Cloud Cost datamart.

To view your cloud cost data in one of the pre-configured reports:

Steps

1. Open Insight Reporting by one of these methods:
 - Click on the Reporting Portal icon  in the Insight server web UI or in the Data Warehouse UI.
 - Launch Reporting directly by entering the following URL: https://<dwh_server_name>:9300/p2pd/servlet/dispatch or https://<dwh_server_name>:9300/bi (7.3.3 and later)
2. Once you are logged in to Reporting, click on **Public Folders** and select **Cloud Cost**.
3. You can view your AWS billing data in the available reports located in the **Cloud Cost** folder, or create your

own custom report using the **Cloud Cost datamart** available from the **Packages** folder.

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