Learn about the Monitoring service

Cloud Manager

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Learn about the Monitoring service

By leveraging the NetApp Cloud Insights service, Cloud Manager gives you insights into the health and performance of your Cloud Volumes ONTAP instances and helps you troubleshoot and optimize the performance of your cloud storage environment.

Features

- Automatically monitor all volumes
- View volume performance data in terms of IOPS, throughput, and latency
- Identify performance issues to minimize impact on your users and apps

Supported cloud providers

The Monitoring service is supported with Cloud Volumes ONTAP for AWS.

Cost

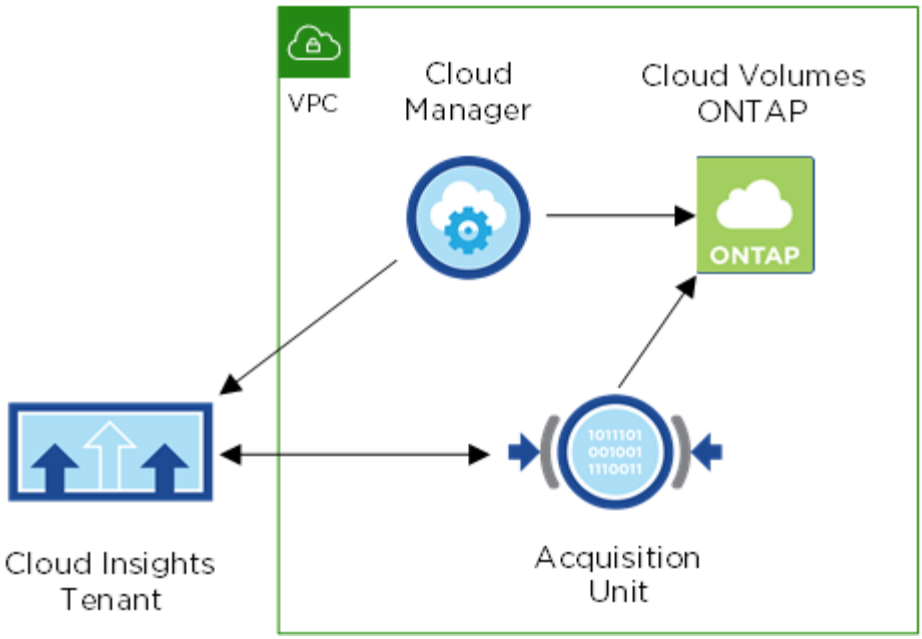
Monitoring is currently available as a Preview. Activation is free, but Cloud Manager launches a virtual machine in your VPC to facilitate monitoring. This VM results in charges from your cloud provider.

How Cloud Insights works with Cloud Manager

At a high-level, Cloud Insights integration with Cloud Manager works like this:

1. You enable the Monitoring service on Cloud Volumes ONTAP.
2. Cloud Manager configures your environment. It does the following:
    1. Creates a Cloud Insights tenant (also called *environment*) and associates all users in your Cloud Central account to the tenant.
    2. Enables a 30-day free trial of Cloud Insights.
    3. Deploys a virtual machine in your VPC called an Acquisition Unit, which facilitates monitoring of volumes (this is the VM mentioned in the Cost section above).
    4. Connects the Acquisition Unit to Cloud Volumes ONTAP and to the Cloud Insights tenant.
3. In Cloud Manager, you click Monitoring and use the performance data to troubleshoot and optimize performance.

The following image shows the relationship between these components:



The Acquisition Unit

When you enable Monitoring, Cloud Manager deploys an Acquisition Unit in the same subnet as the Connector.

An *Acquisition Unit* collects performance data from Cloud Volumes ONTAP and sends it to the Cloud Insights tenant. Cloud Manager then queries that data and presents it to you.

Note the following about the Acquisition Unit instance:

- The Acquisition Unit runs on a t3.xlarge instance with a 100 GB GP2 volume.
- The instance is named *AcquisitionUnit* with a generated hash (UUID) concatenated to it. For example: *AcquisitionUnit-FAN7FqeH*
- Only one Acquisition Unit is deployed per Connector.
- The instance must be running to access performance information in the Monitoring tab.

Cloud Insights tenant

Cloud Manager sets up a *tenant* for you when you enable Monitoring. A Cloud Insights tenant enables you to access the performance data that the Acquisition Unit collects. The tenant is a secure data partition within the NetApp Cloud Insights service.

Cloud Insights web interface

The Monitoring tab in Cloud Manager provides basic performance data for your volumes. You can go to the Cloud Insights web interface from your browser to perform more in-depth monitoring and to configure alerts for your Cloud Volumes ONTAP systems.

Free trial and subscription

Cloud Manager enables a 30-day free trial of Cloud Insights to provide performance data within Cloud Manager and for you to explore the features that Cloud Insights Standard Edition has to offer.

You need to subscribe by the end of the free trial or your Cloud Insights tenant will eventually be deleted. You can subscribe to either the Basic, Standard, or Premium edition to continue using the Monitoring feature within Cloud Manager.

Learn how to subscribe to Cloud Insights.

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