

Learn about the Monitoring service

Cloud Manager

Ben Cammett, Tom Onacki October 01, 2021

This PDF was generated from https://docs.netapp.com/us-en/occm/concept_monitoring.html on October 11, 2021. Always check docs.netapp.com for the latest.

Table of Contents

Learn about the Monitoring service	
Features	
Supported cloud providers	
Cost	
How the Monitoring service works	

Learn about the Monitoring service

The Monitoring service 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 and Cloud Volumes ONTAP for Azure.

Cost

NetApp doesn't charge you for using the Monitoring service, but Cloud Manager launches a virtual machine in your VPC to facilitate monitoring. This VM results in charges from your cloud provider.

How the Monitoring service works

Cloud Manager leverages NetApp's Cloud Insights service to provide monitoring.

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:
 - a. Creates a Cloud Insights tenant (also called *environment*) and associates all users in your Cloud Central account to the tenant.

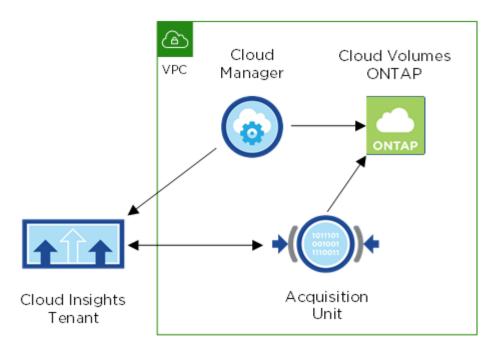
If you already have a tenant, then Cloud Manager uses that existing tenant.

b. Enables a free trial of Cloud Insights.

On the 29th day, your plan automatically transitions from the Trial Version to the Basic Edition.

- c. Deploys a virtual machine in your VPC/VNet called an Acquisition Unit. The Acquisition Unit facilitates monitoring of volumes (this is the VM mentioned in the Cost section above).
- d. 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 in an AWS VPC:



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:

- In AWS, the Acquisition Unit runs on a t3.xlarge instance with a 100 GiB GP2 volume.
- In Azure, the Acquisition Unit runs on a D4_v3 virtual machine with a 30 GiB Standard SSD.
- The instance is named *CloudInsights-AU* with a generated hash (UUID) concatenated to it. For example: *CloudInsights-AU-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

If you don't already have a *tenant*, Cloud Manager sets one up 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 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.

On the 29th day, your plan automatically transitions from the Trial Version to the Basic Edition.

You have the option to subscribe to the Standard or Premium editions to gain access to additional features from the Cloud Insights web interface.

Learn how to subscribe to Cloud Insights.

Copyright Information

Copyright © 2021 NetApp, Inc. All rights reserved. Printed in the U.S. No part of this document covered by copyright may be reproduced in any form or by any means-graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system-without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

RESTRICTED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.277-7103 (October 1988) and FAR 52-227-19 (June 1987).

Trademark Information

NETAPP, the NETAPP logo, and the marks listed at http://www.netapp.com/TM are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.