



Datasheet

# OnCommand Cloud Manager

Simplifying your hybrid enterprise data management

## Key Benefits

- Streamlines the deployment, management, and tracking of your cloud storage based on NetApp® ONTAP® 9 storage software
- Offers enterprise-class management for your hybrid enterprise storage from your premises to multiple cloud providers
- Eases the movement of data across the data fabric with click-and-drag simplicity

## The Challenge

The prominence of the public cloud in today's IT ecosystem has brought new challenges to administrators and architects. For many, the decision to use the cloud has already been made, often by directive. But now come the bigger questions about what, when, and how to use it. Which applications should we run in the cloud? When should we move them there? How do we get our data there?

These are rarely all-or-nothing decisions. Applications and data will reside in your data center and cloud environments in a true hybrid fashion. In this hybrid enterprise environment, data is at the center. It is the only thing of lasting value. It is the thing that needs to be shared and integrated across the hybrid enterprise to deliver business value. It is the thing that needs to be secured, protected, and managed.

In particular, businesses need to control what happens to their data—no matter where it is. Although they can outsource infrastructure and applications to the cloud, they can never outsource the responsibility they have for their business data. They have spent years controlling and aligning the appropriate levels of data performance, protection, and security in the data center to support their applications. Now, as they seek to pull in a mix of public cloud resources for infrastructure and apps, they need to maintain control of their data in the hybrid enterprise.

Today's hybrid world consists of a whole range of isolated, incompatible data silos. Every cloud provider has created service value, but each has the same discussion with the enterprise: Rewrite your applications so that they work on my cloud. Put your applications and your data in my cloud.

What you need is an easy way to connect your disparate environments and the data within those clouds into one well-woven, seamless, integrated entity. This capability allows you to replace today's noninteroperable clouds with a single, cohesive data environment called a data fabric, enabling you to control your data no matter where it is.

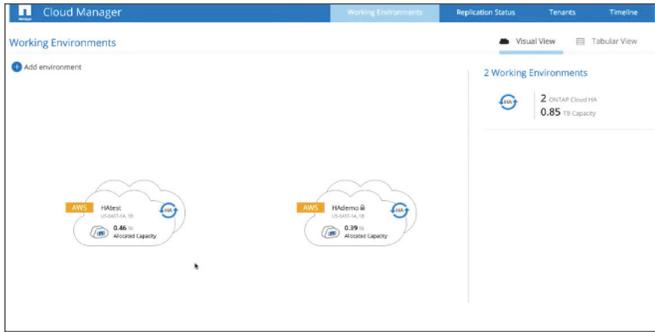


Figure 1) OnCommand Cloud Manager

### OnCommand Cloud Manager

NetApp OnCommand® Cloud Manager provides management for your ONTAP hybrid enterprise storage environment, including the ONTAP Cloud storage service and All Flash FAS (AFF) and FAS systems. OnCommand Cloud Manager brings together your data fabric with a single management interface independent of your data location. This solution eases the day-to-day requirements of your ONTAP Cloud storage in both Amazon Web Services (AWS) and Microsoft Azure, including configuring, provisioning, and monitoring each of your active virtual and hardware storage nodes.

OnCommand Cloud Manager also is the deployment environment for ONTAP Cloud software, offering a point-and-click installation and automatically selecting and assigning resources to each instance. When you deploy ONTAP Cloud, Cloud Manager uses your cloud credentials to select the compute and storage necessary to run the instance of your choice. With visibility into the actual resources consumed by each instance, Cloud Manager monitors and tracks cloud resource utilization, which you can later use in assessing your environment.

Cloud Manager offers a volume view mode that provides a simple interface for ONTAP managed cloud storage. Volume view abstracts the storage infrastructure and lets you choose which volumes you require for your application. Cloud Manager then creates the appropriate infrastructure behind the volume to operate as you defined. You don't need to know the ins and outs of storage—you just need to know what volumes your application requires.

If you are a registered NetApp customer, you can go to the NetApp Support site and download OnCommand Cloud Manager to deploy in your own data center. The software provides you with the flexibility you need to manage each of your cloud environments from a central location.

### Cloud Manager key features

- Simplifies configuration and deployment of ONTAP Cloud for AWS and ONTAP Cloud for Azure
- Provides a central point of control for all data fabric-connected instances
- Automates data movement between your premises and the cloud
- Offers data security choice through NetApp managed encryption
- Provides ONTAP Cloud resource cost monitoring and, when combined with OnCommand Insight, can monitor your entire hybrid storage environment
- Eases license, entitlement, and upgrade management
- Enables nondisruptive migration between ONTAP Cloud licenses
- Facilitates hybrid environments that include NetApp AFF, FAS, and ONTAP Cloud

### Managing your hybrid cloud storage environment

Public cloud providers offer many functions, including infrastructure as a service, that provide customers with raw server and storage resources to use as they see fit. For the storage, management should be performed in a way that resolves your key concerns and that best resembles how you manage your data on the premises. Cloud Manager provides the interface that ties your hybrid cloud storage together.

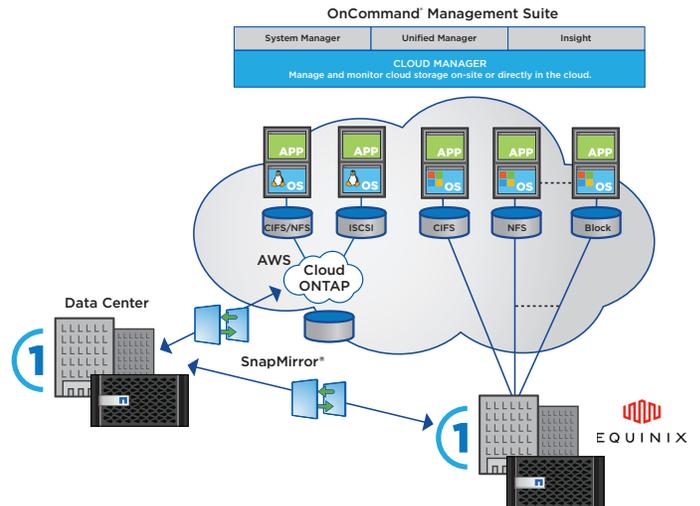


Figure 2) Data management in the hybrid cloud.

## Addressing Resource Cost

To help you determine the infrastructure that best fits your application and economic needs, NetApp offers a wide variety of options from which to choose. These options range from on-premises storage systems to cloud storage, with both near-the-cloud AFF/FAS systems and in-the-cloud storage with ONTAP Cloud. NetApp simplifies the deployment of your environment with Cloud Manager, whether it is an ONTAP Cloud environment for which you pay by the hour, a longer-term subscription deployment, or your purchased NetApp Private Storage (NPS) solution. Table 1 provides application pattern guidelines to help you choose which one of these models to use.

ONTAP Cloud takes performance to the next level by tracking your cloud storage resource usage to help you better determine where your application and data should reside. Cloud Manager, combined with OnCommand Insight, provides a complete monitoring environment across your hybrid cloud data fabric for both your on-premises and cloud storage. These tools track the usage and cost structure of each location to fully gauge the cost effectiveness of your environment. Does your application usage pattern on your premises point out an application that could be more cost effectively moved to the cloud? Are you running applications on cloud resources that are more stable and should be moved to NPS or on your premises? NetApp OnCommand management tools help answer these questions for you.

APPLICATION LOCATION	NETAPP SOLUTION	APPLICATION PROPERTIES
On premises	AFF/ FAS/E-Series	Application usage pattern and resource requirements are well known, with long-term steady-state usage.
Near the cloud	NPS for Cloud	Application has high-governance or high-performance requirements but with variable usage patterns.
In the cloud	ONTAP Cloud	Applications have variable usage and variable storage patterns, or applications can benefit from rapid spin-up or rapid spin-down of storage.

Table 1) NetApp storage solution mapping.

## About NetApp

Leading organizations worldwide count on NetApp for software, systems and services to manage and store their data. Customers value our teamwork, expertise and passion for helping them succeed now and into the future.

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