



Solution Brief

NetApp Cloud Volumes ONTAP Disaster Recovery Solution

Snap to the cloud; recover from anywhere

Key Benefits

Retain Control of Organizational Data

Keep your data safe even if a disaster occurs.

Leverage the Cost and Flexibility of Public Cloud Resources

Create a virtual disaster recovery site that gives you business continuity at an affordable price.

Simplify Management

Get your data into the cloud with a simple click-and-drag step. Quickly get up and running to support your NetApp® AFF, FAS, NetApp ONTAP® Select, and NetApp HCI environments.

Sustain Business Continuity

Rapidly recover data from anywhere if a system fails. By replicating data to the cloud, your organization can quickly recover operations from any other facility if a primary site outage occurs.

Achieve Cost Savings and Flexibility with Cloud-Based Disaster Recovery

An effective disaster recovery strategy prevents operations from coming to a standstill, avoids lost productivity and damage to your reputation.

The usage-based model of cloud computing is well suited for disaster recovery, and it offers a viable alternative to on-premises solutions. Moving disaster recovery operations to the cloud reduces the required data center space and storage infrastructure, resulting in cost savings and flexibility. With cloud-based disaster recovery, you can:

- Meet recovery time and recovery point objectives by storing data in a secure, remote, online facility that recovers data faster than with tape.
- Replicate data and quickly fail over to a cloud site when an outage occurs.
- Get flexibility and cost savings by paying for your disaster recovery applications only if a site or system fails.
- Instantly resize storage capacity as your data requirements change.
- Reduce cloud compute costs by shutting down instances when they aren't in use.

Implementing a hybrid cloud allows IT to continue to control and align the appropriate levels of data performance, protection, and security across on-premises data centers and public cloud infrastructures.

NetApp Cloud Volumes ONTAP Disaster Recovery

NetApp makes it easy for organizations to take advantage of cloud cost and efficiency benefits while meeting critical disaster recovery requirements. With NetApp Cloud Volumes ONTAP, you can easily deploy a disaster recovery environment in the cloud and target it from your on-premises NetApp ONTAP environments. You can get data from a range of AFF and FAS systems to the public cloud with NetApp Cloud Volumes ONTAP software. With this easy-to-deploy solution, you can quickly and seamlessly store data in the cloud and rapidly recover when an outage occurs. And in the cloud, IT can retain the control and security that are required on the premises.

Reliable, bandwidth-efficient replication protocol

NetApp SnapMirror® technology delivers powerful data management capabilities, protecting your critical application environments while providing the flexibility to move data between locations and storage tiers. SnapMirror offers a straightforward setup to easily replicate across all your NetApp environments and includes powerful efficiency capabilities such as compression, deduplication, and inline encryption. SnapMirror:

- Mirrors data from AFF, FAS, ONTAP Select, and NetApp HCI systems to the cloud, protecting against site or regional disasters
- Meets recovery point objectives—ranging from minutes to hours—with the ability to fail over to a specific point in time
- Can be used for disaster recovery, intelligence, data distribution, and development and testing to improve value

NetApp Cloud Volumes ONTAP

Cloud Volumes ONTAP provides the base for your cloud disaster recovery environment with tools and features for meeting your application requirements while maintaining control of cost. With Cloud Volumes ONTAP, you can easily deploy a hybrid cloud environment from on-premises ONTAP storage environments. Management is simple, and you also get enterprise-class features, including:

- Provisioning of file and block storage, with support for SMB/ CIFS, NFS, and iSCSI
- Zero-impact NetApp Snapshot™ copies that provide efficient, near- instantaneous data recovery points without affecting application performance
- Efficiency features such as data deduplication, compression and compaction, and thin provisioning to help minimize the storage footprint
- Data tiering for cold block data tiering from disk to cloud object storage
- NetApp FlexClone® technology to easily create efficient vole copies to support risk-free disaster recovery testing and rapid setup of developer workspaces
- NetApp managed encryption of your at-rest data, protecting your organization from unauthorized data access with externally managed keys

NetApp management software

NetApp management software products give you control and visibility of data across hybrid cloud resources. You can minimize risks, meet SLAs, and boost performance for maximum efficiency and cost savings. Your Cloud Volumes ONTAP disaster recovery environment is managed by NetApp Cloud Manager (formerly NetApp OnCommand® Cloud Manager), giving you a single control point to deploy, provision, and replicate data. Cloud Manager offers an easy-to-use interface that includes:

- Simple click-and-drag replication of your on-premises data to Cloud Volumes ONTAP and between cloud regions or between hyperscalers
- A simple deployment wizard to get new cloud disaster recovery targets up and running in minutes
- The ability to provision, configure, and control cloud storage for additional use after it's in the cloud
- A view of Cloud Volumes ONTAP resource costs that also integrates with NetApp Cloud Insights for a complete view of hybrid cloud resources

After your cloud disaster recovery environment is running, you can get advanced access and control with the same tools that you have used for your on-premises storage, including the following:

- **ONTAP System Manager.** System Manager provides a simple, versatile management GUI, making it easy to configure and manage your Cloud Volumes ONTAP disaster recovery storage. Wizards and workflows simplify common storage tasks, helping you avoid manual errors and greatly improving administrative productivity.
- **NetApp Active IQ® Unified Manager.** This tool monitors and alerts you about the health, availability, capacity, performance, and data protection status of your Cloud Volumes ONTAP disaster recovery storage, with suggestions for quick corrective action.

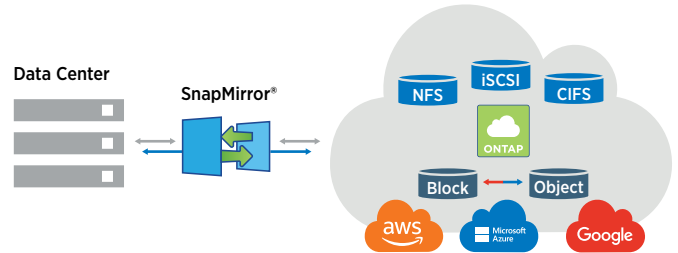


Figure 1) Build an efficient disaster recovery solution on your choice of cloud with Cloud Volumes ONTAP.

Summary

Now is the time to take advantage of the cost and flexibility of the cloud for disaster recovery operations. NetApp Cloud Volumes ONTAP disaster recovery is an excellent fit for organizations that want to leverage the cloud for disaster recovery with an enterprise-class solution that is easy to deploy. The flexible design helps reduce storage costs across existing storage infrastructures, with the ability to increase responsiveness to changing requirements.

Learn more about NetApp cloud solutions at cloud.netapp.com/home.

About NetApp

NetApp is the data authority for hybrid cloud. We provide a full range of hybrid cloud data services that simplify management of applications and data across cloud and on-premises environments to accelerate digital transformation. Together with our partners, we empower global organizations to unleash the full potential of their data to expand customer touchpoints, foster greater innovation, and optimize their operations. For more information, visit www.netapp.com. #DataDriven