AWS DISASTER RECOVERY

The top 5 AWS must-haves in your data protection plan

¶ NetApp

As cyberattacks increase and IT downtime costs soar, data protection needs to be the top IT priority for all businesses in the cloud.

Downtime can strike at any time — whether caused by malicious attacks, natural disasters, human error, hardware and software failures, network or power outages, and more — and it is incredibly expensive. In our experience, an hour of unplanned IT downtime can range from more than $8,580 per hour for small businesses up to $1.4 million per hour for large, global clients.

It's not a matter of whether your company will experience this type of costly disruption, only a matter of when and how. Will your data protection plan help you restore your system in AWS as quickly and thoroughly as you need to minimize the damage?

NetApp Cloud Volumes ONTAP offers peace of mind in the face of very real vulnerabilities. Cloud Volumes ONTAP provides easy-to-use, fast recovery of infrastructure, applications, and data using highly efficient data replication and built-in storage efficiencies—along with significant cost savings.

Here are five AWS data protection must-haves that Cloud Volumes ONTAP provides for bulletproof protection against failures of any kind.

1. A solution that works out of the box simply and seamlessly

Many data protection solutions require the user to configure and maintain them. Cloud Volumes ONTAP, however, is simple, secure, and enterprise-ready. This means you get seamless DR failover and failback operations across AWS environments. In the event of a disaster, your data will be backed up, ready, and waiting on NetApp Cloud Volumes ONTAP.

Cloud Volumes ONTAP uses SnapMirror, NetApp's data replication technology, to sync data between the primary site and the DR site. These syncs are cost effective thanks to Cloud Volumes ONTAP's powerful storage efficiencies, and it's easy to automate the process by scheduling regular syncs tailored to your needs via a user-friendly wizard.

2. Data tiering protects data automatically while saving you money

Storage costs can be a real roadblock to effective data protection. Automated data storage tiering provides a solution by moving snapshots, disaster recovery environments, and infrequently used data to low-cost cloud storage tiers when it is

not needed. Cloud Volumes ONTAP makes things easy for you by seamlessly and automatically moving the data back to the higher-performance storage tier when needed—including in a disaster recovery situation. In the case of AWS, Cloud Volumes ONTAP tiers data between Amazon EBS and Amazon S3 as needed, resulting in significant cost savings while protecting your data.

3. Automated cross-region replication reduces risk of major data loss

One of the most effective ways to protect a system in AWS is to store data in a variety of availability zones and regions. This eliminates the risk that an entire zone or region could be lost in a disaster and impact business functions. Cloud Volumes ONTAP quickly and efficiently carries out automatic cross-region replication using SnapMirror. Enabling replication is easy with Cloud Manager, NetApp's intuitive data storage management interface that provides full visibility and control across infrastructures.
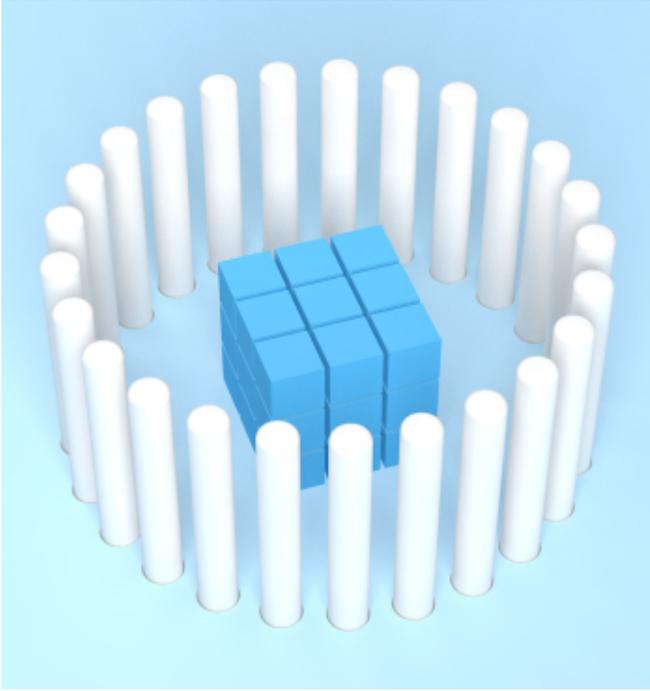
4. Efficient point-in-time snapshots protect against ransomware

Ransomware is a growing threat, and every business is vulnerable.

- The average ransom paid is now up to $170,404.
- Recovery from these attacks can cost up to 10 times more than the ransom itself, according to recent Sophos research.
- The average total cost of recovering from a ransomware attack has doubled in one year to $1.85 million.

NetApp Snapshot™ copies provide ideal protection against ransomware. These fast, point-in-time copies of storage volumes are read-only, so they can't be corrupted by malicious actors, ensuring that you have access to backup data if you are attacked.

Not all snapshots are created equal; the efficiency of Cloud Volumes ONTAP's Snapshot copies far exceeds snapshots used by competitors. Cloud Volumes ONTAP uses NetApp's WAFL technology for Snapshot copies that can be created very quickly. Snapshot copies are incremental, so they do not need a full copy of the source data and take up much less storage space, saving cloud operations costs. Cloud Volumes ONTAP Snapshot copies can be restored just as quickly as they are created, ensuring smooth recovery.

5. Frequent backups ensure that you always have your data when you need it

Regular backup and replication is crucial to data protection—because disaster can strike at any time and successful recovery depends on having that data available. Once a failure occurs and you switch to a disaster recovery site, you will also need to back up any changes made there and replicate them back to the primary site after failback. NetApp's Cloud Manager makes it easy to schedule automatic Snapshot copy backups and replication so you know your data will be there even if your system goes down.

Back to business

Cloud deployments are business-critical to organizations today, and any disruption can be a serious blow. You don't know when or how a threat will appear, but you can count on NetApp Cloud Volumes ONTAP to protect your organization when the time comes. NetApp Cloud Volumes ONTAP puts innovative technology to work in helping you get back to business without missing a beat.

Looking for ideas about how to protect your AWS deployments? Contact us for a 1:1 idea session.

Contact us →