Cohesity and Amazon Web Services

Protect AWS and on-premises data and extend backup, archival, and disaster recovery to hybrid cloud

Cloud has enabled agility and shifted costs to better match rapidly changing business environments. However, as cloud adoption proliferates it also introduces data silos from different data formats, locations, and new services. This only exacerbates the mass data fragmentation problem that started with multiple point solutions for legacy backup, storage, and data management infrastructure.

Cohesity solutions on AWS help eliminate mass data fragmentation and provide a consistent data management experience over hybrid cloud with a single platform and UI. Cohesity’s software-defined platform runs on and integrates natively with AWS cloud and AWS Outposts to consolidate data and infrastructure across AWS services. Cohesity also extends legacy on-premises environments to AWS to take advantage of the scalability and the pay-as-you-go model of the cloud.

Data Management as a Service — a strategic collaboration

Cohesity and AWS are collaborating to bring modern Data Management as a Service to customers. DMaaS radically simplifies the way data is backed up, secured, governed, and analyzed. It provides capacity-based pricing, eliminates infrastructure and silos, and consolidates data from multiple use cases such as data backup and archiving, disaster recovery, file and object services, copy data management, and analytics into an unified service.

“The DMaaS solution from Cohesity and AWS is a significant improvement over what’s available on the market today. I’ve been using Cohesity and AWS for years and both have brought amazing value to our organization. Now, I’m even more excited about a comprehensive DMaaS solution that can provide even greater simplicity, choice, and flexibility from best-of-breed cloud and data management providers.”

- Michael Graff, senior manager, IT Architecture, Dolby Laboratories.
Key Uses Cases

**Backup as a service:** Cohesity DataProtect service is a DMaaS offering that provides cloud backup for both on-premises and cloud data. This backup service eliminates the need to deploy backup infrastructure and consolidates backup data in one place in the cloud.

**Long-Term Retention on AWS:** Cohesity can archive data to all Amazon S3 storage classes for long-term retention. Data is deduped and compressed, and is also indexed for fast granular search and retrieval back to on-premises from the cloud.

**Disaster Recovery on AWS:** Enable disaster recovery on the AWS cloud with failover and failback capabilities. Replicate data from an on-premises Cohesity cluster to AWS to failover and failback on-premises when operations are restored.

**Cloud Native Backup:** Protect AWS applications on EC2 and RDS running on AWS cloud or AWS Outposts with efficient snapshots APIs. Snapshot backups can be stored on Cohesity to maximize data reduction efficiency or they can be stored directly on Amazon S3 and managed remotely from a Cohesity cluster.

**Dev/Test on AWS:** Quickly spin-up data copies and VMs for developers on Amazon EC2 and EBS from on-premises sources. VM formats are automatically converted to ensure compatibility.

**Storage Tiering on AWS:** Extend on-premises Cohesity clusters to the cloud. Utilize policy-based thresholds to move cold data to AWS and use cloud storage as another tier. Data is automatically tiered back on premises upon access.

**Back up AWS Outposts:** Back up AWS Outposts and other on-premises workloads and archive data to Amazon S3 on AWS cloud. Remotely manage snapshot backups on AWS from on-premises.

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Key Cloud Capabilities

**Helios®** – Multicloud data platform and global GUI that provides a comprehensive range of data management services, on-premises or in a as a Service model

**DataProtect** – Backup as a service for both on-premises and AWS applications. Eliminate backup infrastructure, consolidate data, and do more with it using advance cloud data services. Also available for customer managed infrastructure.

**DataPlatform for Cloud** – Deploy a Cohesity cluster on AWS. Enable replication from on-premises to the AWS cloud and AWS GovCloud.

**CloudArchive** – Archive older backup data from on-premises to any Amazon S3 storage class for long-term retention. CloudArchive deduplication reduces storage and data transfer costs on AWS cloud.

**CloudArchive Direct** – Archive data directly to cloud to reduce storage costs and eliminate the need to store a full backup copy on-premises.

**CloudTier** – Use cloud as an extension to Cohesity’s built-in storage to tier the data between a Cohesity cluster and the AWS cloud. Enable capacity bursts to the cloud.

**CloudSpin** – Spin up on-premises VMs on AWS for dev/dev or DR. Automatically, replicate, convert, and spin up VMs on Amazon EC2 on-demand or using policy based scheduling.

**Cloud Snapshot Manager** – Use AWS snapshot APIs to backup cloud apps running on EC2 and RDS and to Amazon S3. Snapshots can be managed remotely from an on-premise Cohesity cluster without the need for additional cloud infrastructure.

Conclusion

Cohesity provides a single platform and UI for data management and gives you the choice of a managed consumption model with DMaaS or a self managed option with software. It runs natively on AWS to protect cloud-native apps and when it’s deployed on-premises it provides simple connectivity to the AWS to extend your data center to the cloud for long-term retention, disaster recovery, test/dev, and tiering as well providing protection for AWS Outposts.

Learn more at Cohesity.com/solution/cloud/aws