Ensure Disaster Recovery and Data Replication For Hybrid Cloud

Introduction

In the digital era, threat scenarios increasing in number and severity—from cyberattacks to natural disasters—raise the likelihood that organizations will at some point need to quickly recover some or all of their data. Yet because not all data is equally important to a business, when and how restoration should occur should be up to the enterprise.

Cohesity delivers a highly flexible, enterprise-grade disaster recovery (DR) and data replication solution that provides near-instant data recovery from the core to the cloud to the edge—and back as often as needed. This simplifies By both DR operations and backup on the same web-scale hyperconverged secondary data and application platform.

Policy-Based Approach Reduces IT Burdens

Cohesity DataPlatform includes policy-based automation to manage both backups and replication in hybrid cloud environments for optimal efficiency. With Cohesity, IT teams can replicate data from a Cohesity cluster on-premises to another on-premises cluster or the public cloud to prevent complete failure.

KEY BENEFITS

- Reduce IT complexity
- Lower Capital
- Lower Operating Costs
- Gain near-instant RTOs
- Gain sub-five-minute RPOs

PHOTO / GFX / CHART

Figure 1: Cohesity Helios Architecture

Integration with Leading Public Clouds for Fast Recovery and Portability

Enterprises embracing digital transformation are increasingly turning to the public cloud for agility and innovation and want to utilize the public cloud for disaster recovery. Where traditional DR solutions fail to deliver a path to multi-cloud efficiency, Cohesity provides a seamless one. CloudReplicate, a Cohesity DataPlatform capability, easily replicates data from on-premises to the public clouds, including Amazon Web Services and Microsoft Azure.

When disaster strikes, CloudSpin, another Cohesity DataPlatform capability, keeps organizations operational by easily converting on-premises virtual machines (VMs) to the cloud for DR. Cohesity also streamlines administration by consolidating the management of data on-premises and in the cloud in a single easy-to-use platform.

Solution Capabilities

- Scale-out data protection

- Instant restores of data to anypoint in time

- Seamless extension to the cloud through cloud-native integrations

- Policy-based management of on-premises and public cloud recovery

- Global dedupe, compression, and transfer of change blocks, reducing network bandwidth

Maximum Flexibility with Cohesity

Cohesity is unparalleled in offering near-instant recovery for an unlimited number of VMs to an any-point-in-time backup stored on Cohesity, supporting both recovery and test/dev provisioning workflows. This makes it possible both to recover easily from any backup snapshot and to choose which VMs to recover, for example, all VMs belonging to an application group or all VMs from a cluster. Moreover, VM data is recovered on a distributed, high-performance, resilient data store and VM data remains highly available and consistent even if a hardware, software, or network failure occurs on the Cohesity cluster.

Unlimited scaling at unmatched efficiency using Cohesity SpanFSTM technology in Cohesity DataPlatform is how enterprises gain the greatest choice—without compromise—in where to store data and applications for recovery. SpanFS is the only file system simultaneously providing NFS, SMB and S3 interfaces, global deduplication, and unlimited snaps and clones, all on one simpleto-use platform. Cohesity supports periodic snapshots with view-based replication from a source cluster to a destination cluster. Replication always transfers the deltas between the snapshots to the destination cluster.

The unparalleled innovation in Cohesity SnapTreeTM technology, also part of Cohesity DataPlatform, makes this possible. SnapTree keeps images always-hydrated for unlimited cloning of images and near-instant recovery to any point in time while limiting the number of multiple data copies. Additionally, Cohesity global deduplication, compression at 5x-10x traditional models, and transfer of change blocks greatly reduces network bandwidth, optimizing the use of replication for lower TCO.

With Cohesity, enterprises facing increasingly complex threat scenarios get the most flexible, enterprise-grade disaster recovery (DR) and data replication platform, providing near-instant data recovery from the core to the cloud to the edge—and back as often as needed.

xxxxxxxx, 01-02-2018