Veritas Cloud Scale Technology
Powering Veritas Alta and NetBackup to improve operational agility, efficiency, and security in multi-cloud environments.

Overview

Accelerated digital transformation and cloud adoption is delivering benefits to businesses around the world. Cloud provider-specific solutions are not ideally suited to meet the challenges of multi-cloud environments, however, resulting in higher costs, greater operational complexity, and vulnerabilities to unplanned downtime.

Veritas Cloud Scale Technology enables Veritas Alta™ and NetBackup™ to solve this problem by providing efficient deployment in the cloud, seamless operation within multiple clouds, and a consistent data management experience across clouds as well as in the data center.

Key Trends

According to interviews of 1,500 IT decision makers conducted by Vanson Bourne, organizations are already using an average of three different public cloud service providers. But only six percent of these decision makers understand that they—not the cloud provider—are responsible for the protection of these cloud-based workloads, and more than half of them have lost data as a result of using these cloud-native tools¹.

This challenge is further complicated by the fact that 53 percent of IT organizations regularly move data between data centers and public cloud services². These organizations need a comprehensive protection strategy that incorporates these new hybrid multi-cloud environments without sacrificing cost and efficiency.

Today’s Challenges

The need to cost-effectively manage and protect data has never been more important—it’s also never been more challenging. Today’s data management technologies are not ideally suited to operate in a multi-cloud environment. They either don’t work efficiently, or they lack the tools to work across multiple clouds. In all cases, operational costs are higher than desired for businesses operating in multi-cloud environments.

Another challenge created by accelerated multi-cloud strategies is the emergence of new data management functions. Where just a few years ago the data protection team centralized all data management decision-making, today it is common for cloud architects, application developers, data scientists, and others to implement their own data management solutions. This change in operations results in greater complexity, costs, and vulnerabilities.

Cloud Scale Technology Basics

• What it is: Cloud Scale Technology is a new generation of the proven NetBackup architecture. It is modernized to be cloud native, ensuring scalable, cost-effective, and elastic operation. It serves as the foundation for autonomous data management.

• How it works: Cloud Scale Technology is designed to operate cloud-natively using technologies such as artificial intelligence (AI), machine learning (ML), containers, and microservices along with web-scale IT techniques such as service elasticity and hyper-automation.

• What it does: Enables Veritas Alta and NetBackup to provide cloud-native operation, resiliency, elastic scalability, and a consistent user experience in multi-cloud environments.

• What it means for enterprise IT: Powered by Cloud Scale Technology, NetBackup reduces cloud compute costs by as much as 40 percent, and cloud snapshot storage costs by as much as 90 percent.
For enterprises to successfully realize the full benefits of their multi-cloud strategies, they need a data management solution that addresses the limitations of today’s data management technologies and the complexity of point products created by operational silos.

**Cloud Scale Technology**

Gartner defines cloud-native as “optimally leveraging or implementing cloud-native characteristics.” Gartner further defines a cloud-native architecture as one that leverages specific principles and components to meet that definition.

Cloud Scale Technology is a new generation of the proven NetBackup architecture that provides the elasticity and resiliency required to achieve significant cost savings within cloud environments. It leverages the scalability and flexibility of the cloud, while providing the consistency and simplicity of a single interface to protect your entire IT infrastructure (see Figure 1).

Figure 1 shows how Cloud Scale Technology makes use of a variety of cloud-native architectural components to power NetBackup and Veritas Alta Data Protection in the cloud (see Table 1 below for more details).

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**AI/ML-Driven, Unified Data Management**

- Intelligent Application Protection
- Automated Malware Scanning
- Dynamic Service Automation
- Analytics, Telemetry, and Reporting
- Orchestration Workflow
- Cloud-Native Immutable Storage
- IaaS, PaaS, SaaS Protection

**Cloud-Native Architectural Examples**

- A containerized, Kubernetes-based deployment model that can be used to create a new cloud-native NetBackup environment, or complement an existing one that spans the data center and the cloud.

- A microservices-based architecture that provides the portability to work within multiple clouds and resiliency for service availability.

- Elastic services that autonomously grow and shrink as needed to optimize cloud resource usage and costs.

- API-driven microservices that enable cross-domain workflow automation.

Table 1. Cloud-native architectural examples
Here are additional examples of benefits that only Cloud Scale Technology can provide:

- Reduce cloud compute costs by as much as 40 percent using elastic snapshots and backups. Automatically scale compute and memory resources to meet increasing demand during snapshot and backup operations, and then releases those resources when demand subsides.

- Leverage global, end-to-end deduplication on-premises and throughout the cloud, with multiple options of where and how deduplication is performed.

- Reduce storage costs by as much as 90 percent by combining cloud-native snapshots with automated snapshot lifecycle management. Cloud Scale Technology combines cloud-native services such as Azure snapshots with deduplication and intelligent automation to seamlessly reduce the size of snapshots and store them on lower-cost storage.

- Scale and protect cloud workloads with efficient and secure object storage support. Access data directly from backup object storage, providing a virtual file system view and malware scanning of data that is compressed, encrypted, and deduplicated.

- Simplified deployment directly from public cloud marketplaces and native tools.

**Business Value**

While the majority of enterprises accelerate their multi-cloud strategies in pursuit of greater business agility and operational efficiencies, they need a data management solution that can help them achieve their goals. Cloud Scale Technology’s service elasticity and modern web-scale technologies enable NetBackup and Veritas Alta Data Protection to operate cloud-natively within a cloud, yet deliver a consistent experience across multiple clouds to improve return on investment (ROI), service resiliency, and security while reducing operational complexity and costs.

**Learn More**

Veritas has been ranked a Leader in the Gartner Magic Quadrant for Enterprise Backup & Recovery for 17 years running. We’ve helped the largest companies protect their data from the edge to the core and across multiple clouds, and we welcome the opportunity to work with you.

With 100 exabytes of information currently under management, NetBackup gives enterprises a simple and powerful way to ensure the integrity and availability of their data.

To learn more about NetBackup, visit veritas.com/netbackup. To learn more about Veritas Alta, visit veritas.com/alta.

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2. ESG, *Movement Across the Distributed Cloud*, September 2022

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**About Veritas**

Veritas Technologies is a leader in multi-cloud data management. Over 80,000 customers—including 95 percent of the Fortune 100—rely on Veritas to help ensure the protection, recoverability, and compliance of their data. Veritas has a reputation for reliability at scale, which delivers the resilience its customers need against the disruptions threatened by cyberattacks, like ransomware. No other vendor is able to match the ability of Veritas to execute, with support for 800+ data sources, 100+ operating systems, 1,400+ storage targets, and 60+ clouds through a single, unified approach. Powered by Cloud Scale Technology, Veritas is delivering today on its strategy for Autonomous Data Management that reduces operational overhead while delivering greater value. Learn more at www.veritas.com. Follow us on Twitter at @veritastechllc.