

# Veritas Cloud Scale Technology

Powering 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. Many current data management solutions are not ideally suited to meet the challenges of multi-cloud environments, however, resulting in higher costs and greater vulnerabilities to unplanned downtime. Newly introduced Veritas Cloud Scale Technology enables Veritas NetBackup™ to solve this problem by providing efficient, cloud-native operation within multiple clouds, consistent operation across clouds, and cyber-resiliency to mitigate the effects of ransomware attacks.

## Key Trends

According to multiple studies, virtually all of today's enterprises have a multi-cloud strategy and 80 percent of those businesses have accelerated that strategy<sup>1</sup> due to the global pandemic. Yet, businesses with multi-cloud strategies have overspent by 20–50 percent.

And with data scattered across multiple clouds, vulnerabilities to ransomware attacks have risen. It is estimated that there is a new cyber attack somewhere on the web every 39 seconds<sup>2</sup>, costing businesses an average of \$300,000 in downtime<sup>3</sup>.

## 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. But 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's not uncommon 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.

For enterprises to successfully realize the full benefits of their multi-cloud strategies, they need data management solutions that address the limitations of today's data management technologies and the complexity of point products created by operational silos.

## Cloud Scale Technology Basics

- **What it is**—Cloud Scale Technology is a new generation of the proven NetBackup architecture, modernized to operate at web scale, power the latest version of NetBackup software, and provide a foundation for our vision to deliver autonomous data management.
- **How it works**—Cloud Scale Technology uses common web-scale IT technologies such as artificial intelligence (AI), machine learning (ML), containers, and microservices along with web-scale IT techniques such as service elasticity, hyper-automation, and multi-tenancy.
- **What it does**—Enables the newest and future versions of NetBackup to operate cloud-natively within multiple clouds while also delivering a consistent experience across clouds.
- **What it means for enterprise IT**—Powered by Cloud Scale Technology, NetBackup reduces cloud compute costs as much as 40 percent and cloud snapshot storage costs as much as 95 percent while proactively identifying, scanning for, and eliminating malware threats.

## NetBackup and Cloud Scale Technology

Veritas Cloud Scale Technology is a new generation of the proven NetBackup architecture. Cloud Scale Technology enables NetBackup to operate more efficiently within cloud environments today (see Figure 1).



NetBackup™

Powered by Cloud Scale Technology

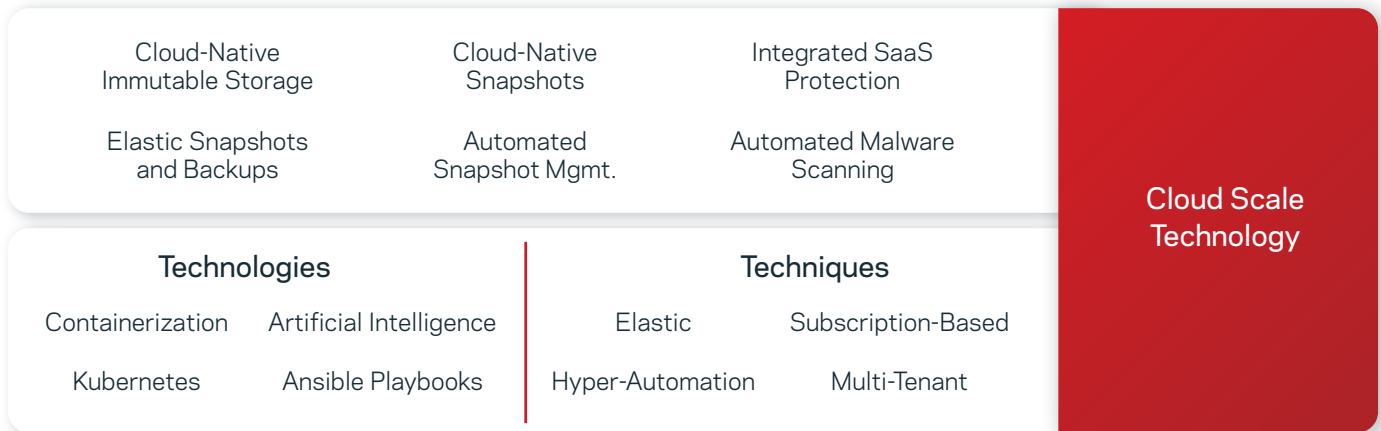


Figure 1. An overview of NetBackup and Cloud Scale Technology architecture.

Figure 1 shows Cloud Scale Technology’s use of web-scale technologies and techniques to power innovative NetBackup features (see Table 1 below for more details).

Technologies	Techniques
Containerized services provide portability to work within multiple clouds and resiliency for service availability.	Service elasticity allows services to autonomously grow and shrink as needed to optimize cloud resource usage and costs.
Artificial intelligence (AI) identifies anomalies and insights invisible to the human eye.	Hyper-automation executes mundane tasks, augments staff time, and speeds time to value.
API-enabled microservices enables cross-domain workflow automation.	Subscription pricing aligns with commonly used cloud-based operational models.

Table 1. Cloud Scale Technologies and Techniques

Powered by Cloud Scale Technology, here are examples of benefits NetBackup customers can expect:

- **Reduce cloud compute costs as much as 40 percent** using elastic snapshots and backups. NetBackup automatically scales compute and memory resources to meet increasing demand during snapshot and backup operations and then releases those resources when demand subsides.
- **Reduce storage costs as much as 95 percent** by combining cloud-native snapshots with NetBackup’s automated snapshot lifecycle management. NetBackup combines cloud-native services such as Azure snapshots with NetBackup data de-dupe technology and intelligent automation to seamlessly reduce the size of snapshots and store them on lower-cost storage.
- **Proactively identify potential malware threats** with event-driven, automated malware scanning. NetBackup uses AI-powered anomaly detection to identify potential malware threats in backup data. When it detects anomalies, NetBackup can automatically initiate malware scans and alert administrators before a threat disrupts business.

## Business Value

With the majority of enterprises accelerating their multi-cloud strategies in pursuit of greater business agility and operational efficiencies, they need a data management solution that can help them achieve these goals. NetBackup, powered by Cloud Scale Technology, redefines data management for the next decade. Cloud Scale Technology's service elasticity and modern web-scale technologies enable NetBackup to operate cloud-natively within a cloud, yet deliver a consistent experience across multiple clouds to improve cloud 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 16 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 [www.veritas.com/netbackup](http://www.veritas.com/netbackup).

1. Vanson Bourne, "The Vulnerability Lag," 2021
2. <https://techjury.net/blog/how-many-cyber-attacks-per-day/>
3. Scroton, Alex, "Average ransomware cost triples, says report," Computer Weekly, March 17, 2021

## About Veritas

Veritas Technologies is a global leader in data protection and availability. Over 80,000 customers—including 87 percent of the Fortune Global 500—rely on us to abstract IT complexity and simplify data management. The Veritas Enterprise Data Services Platform automates the protection and orchestrates the recovery of data everywhere it lives, ensures 24/7 availability of business-critical applications, and provides enterprises with the insights they need to comply with evolving data regulations. With a reputation for reliability at scale and a deployment model to fit any need, Veritas Enterprise Data Services Platform supports more than 800 different data sources, over 100 different operating systems, more than 1,400 storage targets, and more than 60 different cloud platforms. Learn more at [www.veritas.com](http://www.veritas.com). Follow us on Twitter at [@veritastechllc](https://twitter.com/veritastechllc).

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