VERITAS

Veritas NetBackup™ *With* and *Within* the Cloud: Protection and Performance in a Single Platform

Solution Brief

Content

Highlights

- Easily incorporate cloud storage into your backup strategy
- Enhance the performance of backups and restores utilizing cloud storage
- Protect cloud data and workloads within the cloud
- Choose from a growing selection of cloud service providers

Cloud-enabled Backup and Recovery

The cost and flexibility of the cloud are driving enterprises to consider strategies that leverage the affordability of public cloud services and the agility of private clouds or a combination of the two. Cloud-based backup and recovery offers its own benefits, including a reduction in capital expenses due to the elimination of on-site storage and servers, while still meeting retention and compliance requirements.

While the reduction in costs can be compelling when moving workloads for backup, archiving, and recovery to the cloud, lingering concerns about security and performance may exist, especially for public cloud solutions. At the same time, organizations running production environments in the cloud need a solution that extends current capabilities, enabling the flexible movement of data without creating new processes or additional time and staffing. The ideal solution will not only support the evolution toward software-defined data centers, virtualization, and disaster recovery-as-a-service, but will also modernize recovery and continuity efforts with the nearly limitless capacity to scale and meet elastic demand.

Integrating Veritas NetBackup™ with the Cloud

As a market-leader with the trust of more companies' data protection needs than any other enterprise solution, Veritas NetBackup™ enables organizations to realize the value of the cloud to protect information. Designed specifically for the diverse challenges with enterprise backup and recovery, NetBackup protects data wherever it lives–whether on-premises in data centers and remote sites, or off-premises in the cloud–and can store that data on disk, tape, or the cloud. Self-service capabilities not only give IT staff better visibility and control of backup and recovery, it enables enterprises to transform faster to keep pace with business needs.

There are two scenarios to consider when integrating your backup and recovery strategy with cloud infrastructure:

- **Protect Data with the Cloud**—copy on-premises data to cloud storage via NetBackup cloud connectors or a supported hardware cloud gateway device.
- **Protect Data within the Cloud**—workloads and data are protected within a cloud environment using NetBackup infrastructure hosted in the cloud.

Protect Data *With* the Cloud

With the ability to optimize data transfer and reduce risk, NetBackup brings the benefits of the cloud to enterprises that want to augment existing on-premises disk and tape storage. NetBackup supports two ways of doing this:

NetBackup Cloud Connector—Broadened support for cloud environments gives enterprises extensive flexibility to pick and choose the cloud storage service they need for backup. Engineered around Amazon Simple Storage Service (Amazon S3), a newly enhanced Cloud Connector enables connections not only to Amazon Web Services (AWS), but to potentially any S3-compatible cloud storage platform such as Google Cloud Storage Nearline, Hitachi Cloud, Verizon, or Cloudian.

Cloud Gateway Device—For enterprises pursuing a hybrid approach to cloud adoption, devices such as AWS Gateway-Virtual Tape Library (VTL) and NetApp AltaVault can provide an alternative way to copy backup data to cloud storage managed by the gateway device.

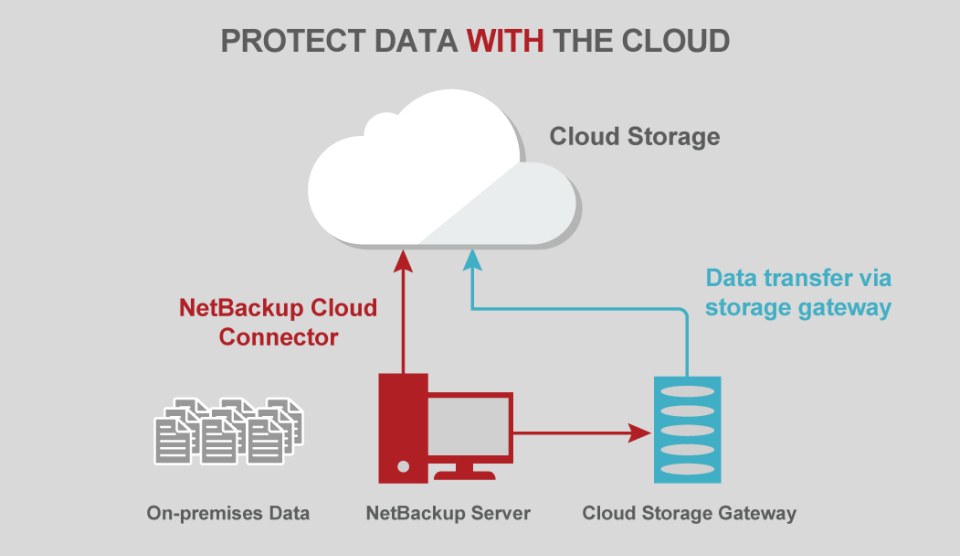

Figure 1. NetBackup can transfer and store data in the cloud by using either the NetBackup Cloud Connector or by using a cloud gateway device.

In this scenario, the on-premises data center runs normal backup operations and backup data is copied to the cloud via cloud connectors or a hardware cloud gateway.

This is an ideal scenario if you want to tier your data between different storage options, such as AWS or Google Nearline. With this approach, you can move archived data or data that's not frequently accessed to the cloud via a cloud connector or cloud gateway and keep critical data that needs to be accessed more frequently on-premises.

Benefits of this approach with NetBackup include:

- Visibility of your data no matter where it's located
- Shifts storage costs to a pay-as-you-go OpEx model
- Stores data offsite so it will be available if a disaster should strike
- Operational recoveries are sourced by on-prem storage in a backup appliance or cloud gateway device

Protect Data *Within* the Cloud

Enterprises looking to shift from CapEx to OpEx spending are moving workloads to the cloud. NetBackup extends backup and recovery capabilities to the cloud to support this evolution. NetBackup delivers the flexibility to protect data in the cloud without requiring new tools or processes, or additional time and resources. In addition, NetBackup extends current on-premises policies and procedures to the NetBackup infrastructure and workloads in the cloud while simplifying management with on-demand configuration.

With NetBackup, the use of Auto Image Replication (AIR) can turn an enterprise cloud deployment into a DR strategy as well, by providing replication to cloud storage and recovery-in-place when a recovery is needed. Deployment of NetBackup Master, Media and Media Server Deduplication (MSDP) in the cloud allow for the same level of protection as that available in the data center, all while improving security for data in flight and at rest.

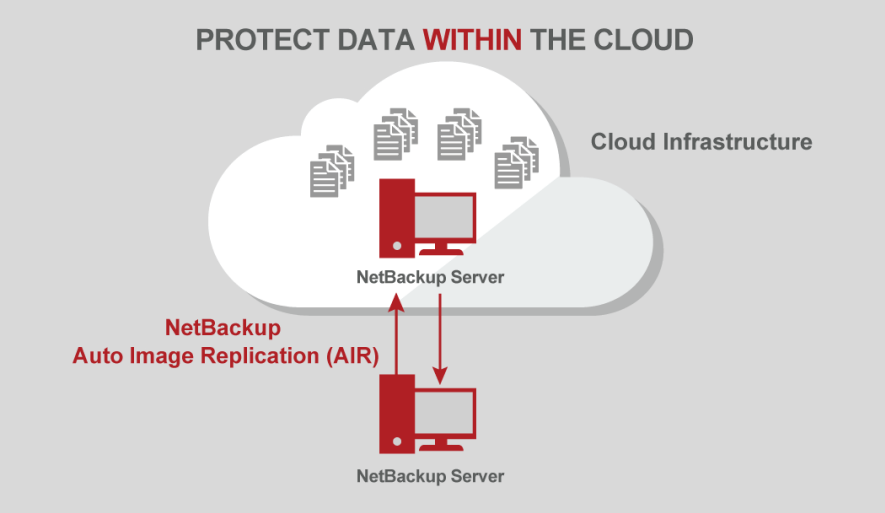

Figure 2. NetBackup can be installed in the cloud to protect cloud-hosted data and workloads, and also synchronized with on-prem NetBackup deployments to facilitate a DR strategy.

In this scenario, cloud-based workloads are protected by hosting NetBackup infrastructure in the cloud environment alongside the workloads. This provides full visibility and control of cloud-based data protection from the on-premises data center.

Benefits of this approach with NetBackup include:

- Flexibility and freedom to deploy workloads based on business needs without compromising data protection.
- Single NetBackup management interface and catalog regardless of workload location.
- Greater visibility across the entire virtual landscape to view data whether it's located in on-premises data center or cloud-based servers.

Conclusion

The affordability and infinite capacity of the cloud can deliver a flexible, agile architecture for backup and recovery. Regardless of whether organizations have moved workloads to the cloud or want to leverage the benefits of cloud storage for backup and recovery of on-premises data, NetBackup delivers multiple cloud options in a single platform.

About Veritas Technologies LLC

Veritas Technologies LLC enables organizations to harness the power of their information, with solutions designed to serve the world's largest and most complex heterogeneous environments. Veritas works with 86 percent of Fortune 500 companies today, improving data availability and revealing insights to drive competitive advantage.

For specific country offices and contact numbers, please visit our website.

Veritas World Headquarters
500 East Middlefield Road
Mountain View, CA 94043
+1 (650) 933 1000
www.veritas.com

21359517 09/2015