

Technical Brief

Modernizing Data Center Backup with Veritas and Microsoft Azure



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Overview

Protecting business application data is a basic but essential need to ensure business uptime. For on-premises workloads, many organizations today are backing up data to tapes that then get shipped offsite. This doesn't make for an agile business- restoring from tapes that are physically stored someplace else can take days if not weeks. With the advent of cloud, organizations can now modernize their data center backups by eliminating tape and backing up data to clouds like Azure while keeping a copy of data on-premises for faster recovery. The replacement of legacy tape infrastructures with Azure has a key advantage – the ability to gain business insights from in-cloud data analytics with machine learning and artificial intelligence.

The power and versatility of the Veritas Flex Appliance 5340 can be combined with Veritas NetBackup CloudCatalyst technology to effectively and economically address long term retention of data in Azure as well as on on-premises.

A converged NetBackup infrastructure, running as multiple container instances on a Flex Appliance 5340, can send optimized data to a NetBackup CloudCatalyst Server. Data is stored in an optimized format and sent to various destinations designed for long term retention, such as the Veritas Access 3340 Appliance, or to public clouds like Microsoft Azure. Because the CloudCatalyst Server maintains optimization when sending data to a long term retention destination, both data transfer performance and long term retention storage capacity are maximized.

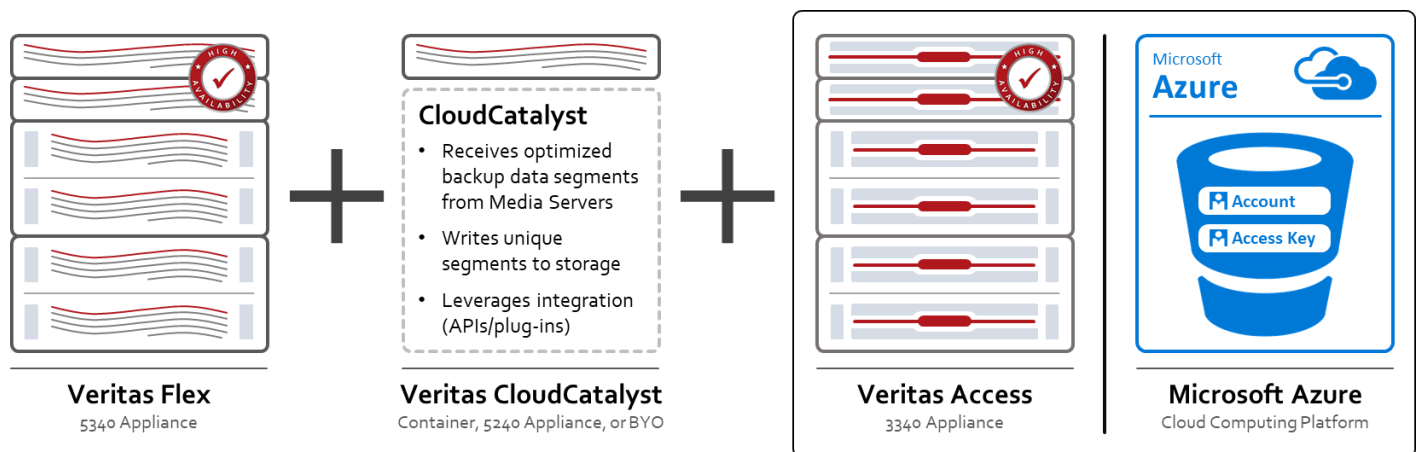


Figure 1 – Veritas Flex Appliance, Veritas NetBackup CloudCatalyst, and Veritas Access or Microsoft Azure for Long Term Retention

The CloudCatalyst Server can be implemented as a container instance on the Flex Appliance 5340, as a NetBackup Appliance (5240 "G"), or as a BYO server.

Business Value

Flex Appliance 5340 for data center flexibility and agility

By choosing the Flex Appliance 5340 solution, customers can benefit from a consolidated NetBackup infrastructure, built upon a unified, converged, single-vendor appliance solution. Through the flexibility of container technology, customers can select what Veritas NetBackup solution components to deploy on the Flex Appliance 5340 platform to match the dynamic needs of their data center environments.

Supported NetBackup containers include NetBackup Master Server and NetBackup Media Server, including CloudCatalyst Media Servers and MSDP Media Servers.

With the adoption of container technology, end users can enjoy a high degree of agility when deciding how to implement their NetBackup environments, while maintaining the benefits of building the environment on the Flex Appliance 5340's converged infrastructure.

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NetBackup CloudCatalyst for optimized storage of data to Azure or Access as destinations

NetBackup CloudCatalyst Servers help customers overcome the challenges of storing copies of their backup data to Azure and/or Access while maintaining data optimization. Maintaining data optimization helps customer address costs associated with storing large amounts of data in a public cloud repository, and can help increase data transfer performance.

A key differentiator of the NetBackup CloudCatalyst solution is its ability to maintain data optimization (data deduplication) while replicating backup data segments to, and from Access storage or the selected public cloud storage container.

Microsoft Azure for long-term data retention

NetBackup software and appliance solutions are integrated with Microsoft Azure making it a great choice for storing backup data to the cloud, including for long-term data retention use cases. This includes reduced costs associated with tape and tape management, alongside additional cost benefits from using a scalable, cost-effective, public cloud solution for the long-term retention of data.

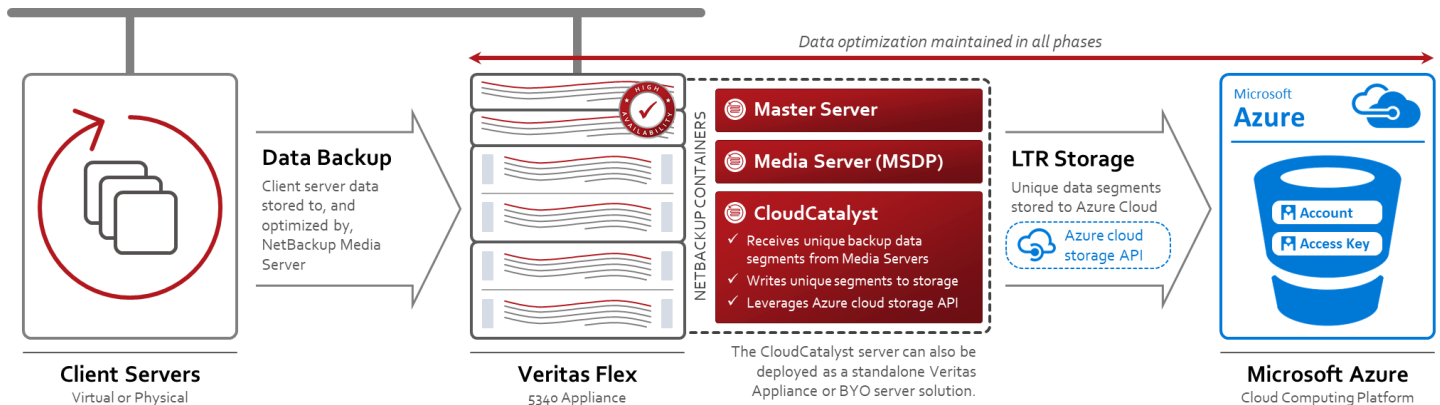


Diagram Notes

- Backup data is gathered from client servers and stored to the Media Server (MSDP) container instance on the Flex Appliance 5340, where it is fully optimized and available for quick recovery purposes
- Optimized backup data segments are duplicated from the Media Server (MSDP) container instance to the CloudCatalyst Server container instance, where it is analyzed
- New unique data segments received by the CloudCatalyst Server container instance are stored to the Access 3340 Appliance for LTR purposes using the Azure cloud storage API

Figure 3 – Using Microsoft Azure for cloud-based long term retention

Once a Microsoft Azure account and license key have been obtained, NetBackup policies can leverage the Azure cloud computing platform as a storage target by configuring the Azure storage as a target from the NetBackup environment. The NetBackup CloudCatalyst Server only stores optimized (deduplicated) data segments to the Microsoft Azure container, ensuring customers get the most out of their Azure cloud storage investment.

More information about the Microsoft Azure Cloud Computing Platform and powerful integration between NetBackup and Azure can be found here: <https://azuremarketplace.microsoft.com/en-us/marketplace/apps/veritas.veritas-netbackup-8-s>.

Access 3340 for long-term data retention

Customers looking for a modern solution for long-term data storage can greatly benefit from the Veritas Access™ 3340 Appliance by using it as an alternative to tape for the long-term retention of backup images. This includes reduced costs associated with tape and tape management, alongside additional cost benefits from using a scalable, cost-effective, private-cloud solution for the long-term retention of data.

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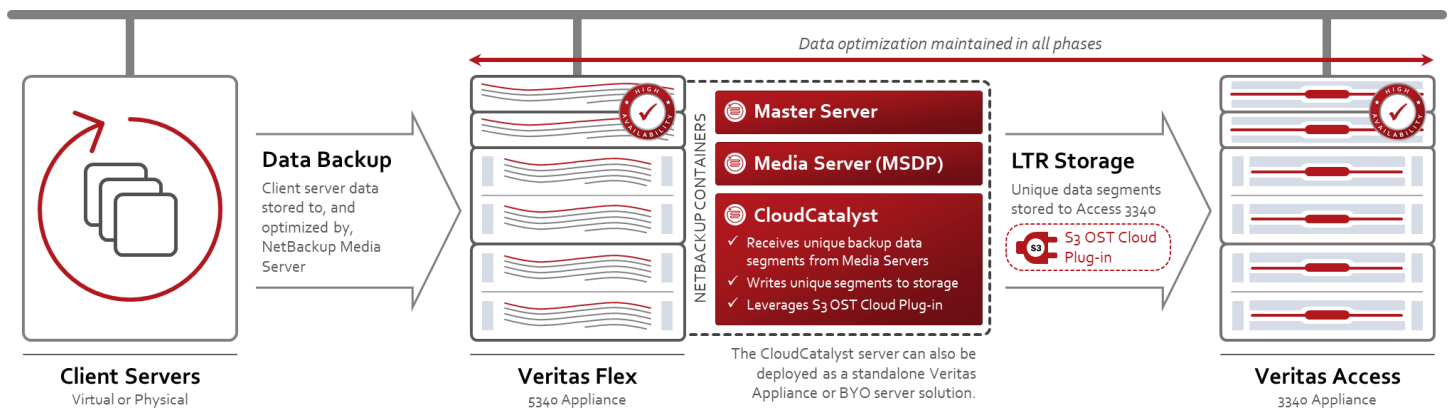


Diagram Notes

- Backup data is gathered from client servers and stored to the Media Server (MSDP) container instance on the Flex Appliance 5340, where it is fully optimized and available for quick recovery purposes
- Optimized backup data segments are duplicated from the Media Server (MSDP) container instance to the CloudCatalyst Server container instance, where it is analyzed
- New unique data segments received by the CloudCatalyst Server container instance are stored to the Access 3340 Appliance for LTR purposes using the S3 OST Cloud Plug-in

Figure 2 – Using the Access 3340 Appliance for on-premises long term retention

The Access 3340 Appliance can efficiently tier and retain data through configurable policies, and is a cost effective and integrated offering for the long-term retention of data. The Access 3340 Appliance supports up to 2,544 TiB of storage when configured with a maximum of four storage shelves.

Summary

A converged NetBackup infrastructure, running as multiple container instances on a Flex Appliance 5340, can send optimized data to a NetBackup CloudCatalyst Server, which can store data in optimized format to various destinations designed for LTR, such as the Veritas Access 3340 Appliance, or to public cloud storage such as Microsoft Azure. Because the CloudCatalyst Server maintains optimization when sending data to an LTR destination, both data transfer performance and LTR storage capacity are maximized.

This powerful combination of Veritas technologies can help customers address critical LTR use cases while offering additional benefits of Veritas appliance solutions, such as performance, compatibility, reliability, management, simplicity, and more.

For More Information

- Veritas Appliances Website: <https://www.veritas.com/product/backup-and-recovery/netbackup-appliances/>
- Azure and NetBackup: <https://azuremarketplace.microsoft.com/en-us/marketplace/apps/veritas.veritas-netbackup-8-s>
- Veritas PartnerNet: <https://partnernet.veritas.com/>
- Veritas Support Portal: <https://www.veritas.com/support/>
- MyVeritas Customer Portal: <https://my.veritas.com/>

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