

Bring power—and savings—to your cloud backups with Veritas and Fujitsu.

Joint Solution Case

Explore new backup options with Veritas NetBackup Cloud Catalyst and Fujitsu Cloud Service K5.

For a growing number of organizations, the cloud has become an increasingly attractive choice as a storage target. Whether protecting data stored offsite or storing long-term backups, today's leading cloud solutions such as Fujitsu Cloud Service K5 offer fast, flexible alternatives to—or, in many cases, supplements to—traditional tape-based backup and storage.

Veritas NetBackup CloudCatalyst further extends the ease and utility of backing up to Fujitsu Cloud Service K5 with powerful new data deduplication capabilities. By ensuring backup data remains optimized in transit to the cloud and at rest in the cloud, NetBackup CloudCatalyst greatly reduces costs and increases performance when using cloud storage.

CloudCatalyst can be readily enabled within your NetBackup deployment and is delivered on a purpose-built appliance or as a build-your-own (BYO) software solution. (See Figure 1.)

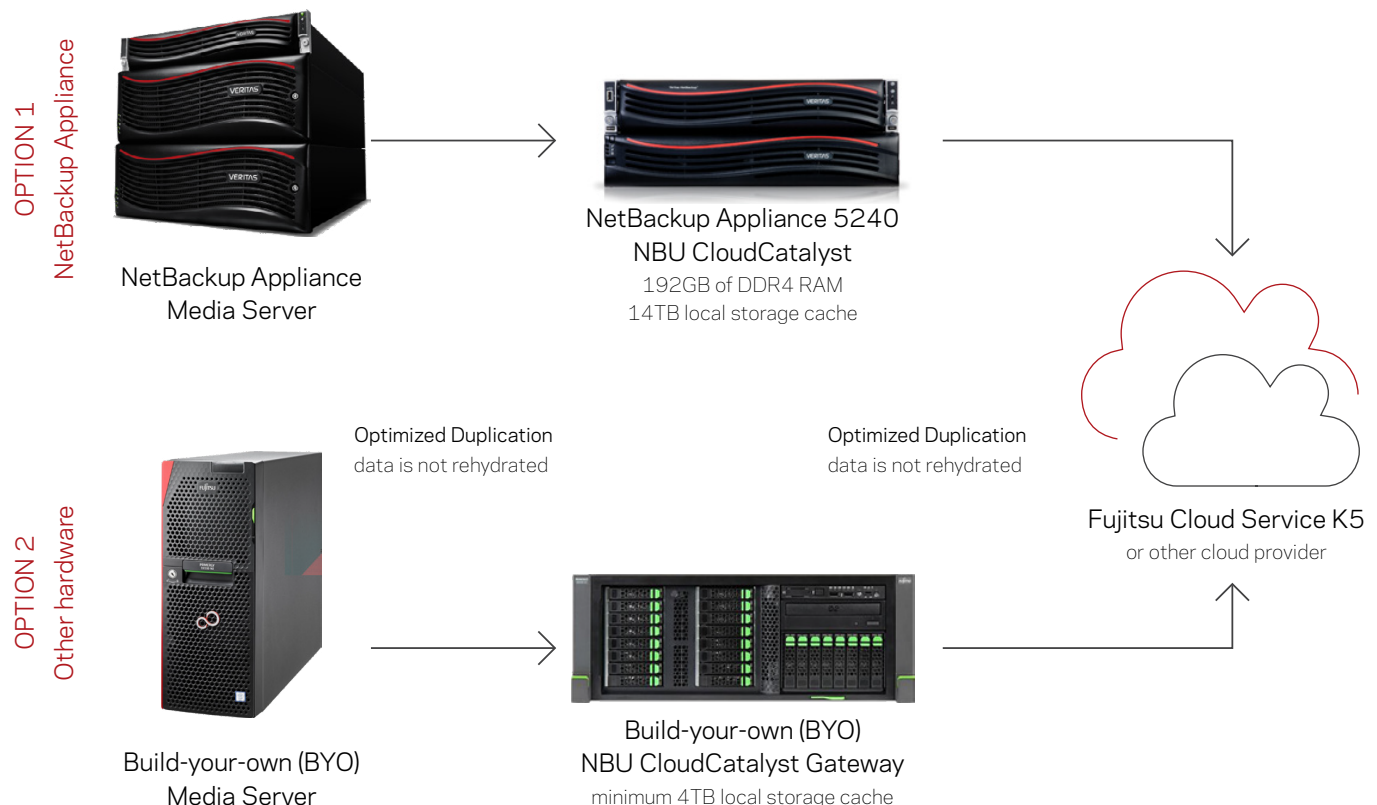


Figure 1: NetBackup CloudCatalyst is available on Veritas NetBackup Appliance 5240 or can be operated on a BYO cloud gateway.

Key advantages when choosing CloudCatalyst in conjunction with K5

NetBackup CloudCatalyst sits between your NetBackup media server(s) and your Fujitsu Cloud Service K5 deployment, where it is dedicated to making sure you transfer only what data is necessary for comprehensive cloud backups. Unlike other solutions, CloudCatalyst has the ability to receive optimized (deduplicated) backup data from the media server(s) and to transfer to K5 only the new or altered data while still retaining an optimized format. The process includes:

- NetBackup Media Server(s) gathers backup data from protected client servers.
- NetBackup Media Server(s) deduplicates (optimizes) backup data.
- NetBackup Media Server(s) transfers backup data to CloudCatalyst Server in optimized format without requiring rehydration or any format changes.
- CloudCatalyst Server stores backup data to K5 cloud storage target in optimized format.

Other solutions use a more traditional and expensive approach for sending data to the cloud. (See Third-Party Gateway, Figure 2.) This more traditional method requires rehydration (decompressing the backup data from the format in which it is stored in the media server) before sending data to the gateway responsible for storing the data to the cloud. Accordingly, the data must be recompressed (deduplicated) again by that cloud gateway—and this rehydration and re-deduplication process requires a significant amount of time and resources.

As a partial workaround, some systems offer effective deduplication technology for on-premise backups but use a less effective deduplication technology for data that is transferred to the cloud. CloudCatalyst, however, works seamlessly with the highly effective MSDP data created in the original NetBackup deduplication process. (MSDP is the native NetBackup media server deduplication pool format.)

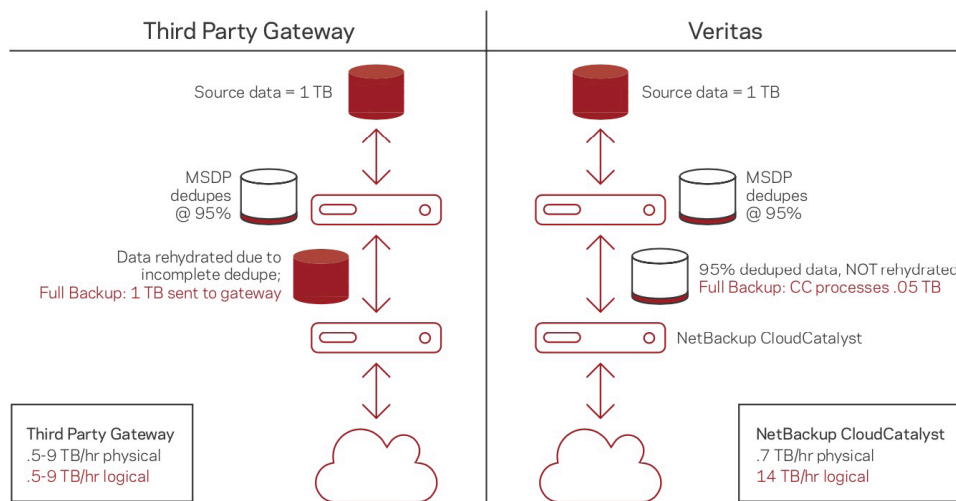


Figure 2: By maintaining data optimization while storing data to or retrieving data from K5, NetBackup CloudCatalyst offers critical performance advantages over more conventional solutions.

Joint Solution Customer Benefits

Reduced Costs

- Fastest end-to-end deduplication performance in the industry dramatically reduces the amount of time and bandwidth needed for cloud storage.
- Single CloudCatalyst Server can receive data from multiple Media Servers.
- Only changed data is moved to the cloud.
- Recovery of data will only pull necessary changed blocks, not full files.

Scalability: Support an infinite amount of data, via a flexible K5 deployment or across multiple cloud environments, as your backup requirements grow.

Security: Secure all in-flight and at-rest data with encryption.

Visibility and Integration: Full integration with the NetBackup catalog ensures seamless visibility, deduplication, and cataloging of data between data center and multi-cloud environments.

Investment Protection: Leverage storage capabilities across your data center (tape or disk) and K5 cloud to make the best use of existing architectural investments.

Ease of Use: The same NetBackup management of your local backup is used for operational recovery and for long-term retention to the cloud.

When it comes time to recover data from backup, CloudCatalyst again is faster and more efficient than many competing solutions. NetBackup enables direct recovery of data from the CloudCatalyst Server without first passing through another Media Server.

Additional Features

CloudCatalyst Cache: Local disk storage is used when writing and retrieving optimized backup data segments to and from your K5 cloud storage target. This cache is used as a staging area where the system monitors and tracks changes so that only new, unique segments are saved to the cloud. For the NetBackup 5240 CloudCatalyst solution, the cache is 14TB. For BYO versions of the NetBackup CloudCatalyst, the cache must be at least 1TB.

CloudCatalyst Security: Veritas and Fujitsu understand the importance of protecting data from unauthorized access at all stages. NetBackup CloudCatalyst includes the full spectrum of NetBackup security capabilities, including AES256 encryption for data in transit from a CloudCatalyst Server to the K5 storage target, as well as data as it resides in the cloud storage target location.

Automation: NetBackup automated policies deliver the orchestration required to move data to multiple clouds, when and where you need it, with complete visibility.

Learn more

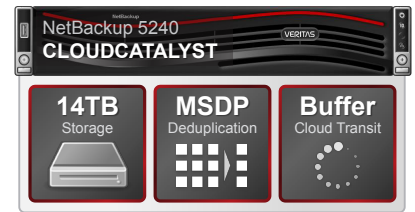
NetBackup CloudCatalyst seamlessly integrates K5 cloud storage into your NetBackup deployment and delivers complete visibility and control to better leverage K5 for storing backups—whether for short-term operational purposes, for disaster recovery, or for long-term data retention. By ensuring backup data remains optimized in transit to the cloud and at rest in the cloud, the NetBackup CloudCatalyst solution greatly reduces costs and increases performance when using cloud storage.

Supplementing your backup capabilities with cloud is one of the most effective ways to advance and streamline your data protection strategy—and joint solutions from Veritas and Fujitsu deliver the flexibility to meet all your needs. The first step is typically to assign accurate backup policies to protect and store your data, guarding against overprotecting or perpetually retaining data, which drives up storage and management costs. As you begin to make important decisions about your cloud data protection strategy, please contact your regional representative to learn how we can help create a solution that meets your unique needs.

NetBackup 5240 Appliance with CloudCatalyst

A fully integrated appliance designed to extend the power and savings of deduplication to the cloud.

NetBackup CloudCatalyst can operate as a build-your-own (BYO) software solution or can be deployed on the Veritas NetBackup 5240, a purpose-built appliance that:



- Stores highly optimized backup data to the cloud.
- Can receive data from multiple media servers.
- Is designed for high performance and optimization preservation.
- Supports data encryption in all phases.

Designed to optimize the process of sending backup data to object storage in a deduplicated format, the 5240 CloudCatalyst Appliance includes:

- 2x powerful Intel Xeon CPUs
- 192GB of DDR4 RAM
- 8x 10GbE ports (2x Cu)
- 4x 1GbE ports
- 2x 8Gb FC ports
- 14TB local storage cache for buffering data

What you gain: ESG Lab has confirmed that with the NetBackup CloudCatalyst 5240 appliance, “you are not simply moving a bucket of data around the gameboard to minimally satisfy protection requirements.” Download the [full report](#) to learn how NetBackup CloudCatalyst can sustain backup rates of up to 930 GB/hour with capacity and WAN bandwidth reduction of 90% or more.

Additional resources:

[Fujitsu Cloud Service K5](#)

Veritas NetBackup 5240 Appliance: ([Fujitsu](#)) ([Veritas](#))

[NetBackup Appliances Resources](#)

[Contact Us](#)

[More from Veritas](#)

[More from Fujitsu](#)

ABOUT VERITAS TECHNOLOGIES LLC

Veritas Technologies empowers businesses of all sizes to discover the truth in information—their most important digital asset. Using the Veritas platform, customers can accelerate their digital transformation and solve pressing IT and business challenges including multi-cloud data management, data protection, storage optimization, compliance readiness and workload portability—with no cloud vendor lock-in. Eighty-six percent of Fortune 500 companies rely on Veritas today to reveal data insights that drive competitive advantage. Learn more at www.veritas.com or follow us on Twitter at [@veritastechllc](https://twitter.com/veritastechllc).

Veritas Technologies LLC
500 East Middlefield Road
Mountain View, CA 94043 USA
+1 (866) 837 4827
veritas.com

For specific country offices and contact numbers, please visit our website.
veritas.com/about/contact



V0715 06/18