

EPC company builds protected, accessible data store with Veritas NetBackup™ and Azure.

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OVERVIEW

Transformation Means Shifting away from Tape and to the Cloud

GS E&C is a global engineering, procurement, and construction (EPC) contractor with experience in oil and gas facilities, power plants, residential architecture, public infrastructure, and leisure facilities. The company's IT team had been using Veritas NetBackup to perform nightly backups to tape, then transporting the tapes to their data center every morning. As data volumes grew and the older tape media needed to be replaced, discussions with technology partners Veritas and Microsoft led GS E&C to a better solution: using a NetBackup Appliance to perform disk-based backup in hybrid cloud storage. The automated backup in disk-based storage is saving the IT team time and money. Also, the ability to securely store, recover, and retrieve data—either from the cloud or from the on-premises NetBackup server—has opened up new paths for data-driven processes within the company.

A JOINT SOLUTION TO THE DATA PROTECTION CHALLENGE

Jung Jae-hoon, the head of GS E&C's IT department, realized that with the company's growing volume of data, it was becoming impossible to finish tape backups—often 40TB to 50TB—within the nightly backup window. The team resorted to backing up part of the data, completing the entire backup over the course of a few days. "I thought it was time to look back on how my data was stored and how it was backed up," Manager Jung Jae-hoon recalls.

The increasing prevalence of cloud services such as Azure made cloud storage an attractive option, but at the time, the lack of local cloud data centers meant GS E&C could not store any personal or other sensitive data there. (In 2017, with the establishment of the Azure Data Center in Korea, the legal problems of cloud data storage were eliminated, allowing business, customer, and personal information to be backed up to the cloud if they met security standards.)



ORGANIZATION PROFILE

Website: www.gsenc.com

Industry: Construction

Headquarters: Seoul, Korea

Employees: 6,000+

KEY CHALLENGES

As the IT team at GS E&C considered how to update its data protection systems, it wanted to wean itself off tape management, utilize newly accessible cloud services, and lay the foundations for better data access to support analytics.

SOLUTION

A NetBackup™ Appliance at the company headquarters backs up all of their data. At the same time, NetBackup deduplicates, cleanses, and encrypts a subset of data bound for archival in the Azure cloud.

BENEFITS

- Achieved multi-layered data protection with data recoverable both from the NetBackup Appliance and from Azure
- Eliminated expensive, inefficient tape backup
- Combined backup upgrade and preparation to deploy new analytics tools in the same cloud migration project
- Improved operational efficiencies of the IT team

As an interim solution, the IT team started by backing up some of the data in its network-attached storage (NAS) to Azure StorSimple, a hybrid cloud storage solution. It had approximately 150TB of data linked to StorSimple, with 40TB backed up to the local NAS and the rest—the non-sensitive data—uploaded to Azure.

As he discussed the company's backup needs with the Veritas team, Manager Jung Jae-hoon discovered that there was an option to combine Veritas NetBackup with Microsoft Azure. "The [NetBackup] equipment was already running smoothly inside the enterprise, and everyone was used to transferring backup data to the cloud," he says. "So, the new backup solution was the natural choice."

MORE EFFICIENT AND SECURE CLOUD BACKUP

GS E&C's new backup solution replaces the existing NetBackup server and tape media with a Veritas NetBackup Appliance and disk-based storage in Azure. Data that needs to be backed up is sorted out and sent to a dedicated NetBackup media server, which de-duplicates the data, encrypts it, and uploads it to Azure.

Because of the technology collaboration between Microsoft and Veritas, there was no need for additional integrations to enable these functions, reducing implementation time and risk. The new solution is also easy to manage, as the IT team can view all the backup points, both on premises and in the cloud, from a single dashboard. The NetBackup Appliance also enabled continuous data security: The cloud-bound data that is encrypted when at rest on the NetBackup server also remains encrypted in transit and in the cloud.

With the disk-based backup, processing speed is much faster, and GS E&C's IT team has found it easy to manage both partial and full backups. "When it comes to backup, almost everything is automated, and everything is done on the keyboard without physical movement," Manager Jung Jae-hoon explains. "But the change in backup solutions is barely noticed by the employees, not even the IT team."

BETTER ARCHIVING FOR DATA-DRIVEN DECISIONS

According to Manager Jung Jae-hoon, "GS E&C has begun a data management transformation by changing its data backup system, and has laid the foundation for better data analysis as well as business efficiencies through the cloud. Naturally, we're looking at data analytics, and we're also concerned about transforming our environment into a data-driven one.

"We believe the new backup solution will help us have a data-driven business environment in the future. The natural connection between Veritas's backup solution and Microsoft [Azure] storage and cloud has become more efficient and reliable. More than anything else, we've opened up the possibility of digital transformation by looking back on the importance of data and how it works."

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— Jung Jae-hoon, Head of IT Department, GS E&C



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FOR MORE INFORMATION

Please contact your local Veritas Sales Representative or Business Partner, or visit: [Veritas NetBackup](#)

ABOUT VERITAS

Veritas Technologies is a global leader in data protection and availability. Over 50,000 enterprises—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. Follow us on Twitter at [@veritastechllc](https://twitter.com/veritastechllc).

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