

Gansam Architecture mitigates ransomware threats and eases burden on staff with Veritas NetBackup™.

VERITAS™

OVERVIEW

Building on Timeless Values

Established in 1983, Gansam Architects and Partners (Gansam Architecture) is a specialized architectural design company that designs and supervises the construction of large and small buildings in Korea and abroad. Since its foundation, it has been continuing to 'create a space with unchanging values for humans' based on the belief of 'pursuit for the essence of architecture.'

Gansam Architecture, which began to make its name for itself with the design of the Bank of Korea headquarters in 1987, has stood out in the industry for the past 37 years, taking charge of the construction and remodeling design of major landmarks representing Korea. Recently, the company has expanded into building management planning and consulting.

When the company needed to improve the efficiency of its data protection environment, it turned to Veritas. Using the fast backup and policy-based automation in Veritas NetBackup and NetBackup Appliances, Gansam Architecture now has a system that can protect internal assets from external threats such as ransomware. It has also significantly lowered the burden on administrators.

ABSENCE OF EFFECTIVE DATA BACKUP PLAN

As Gansam Architecture has a long history, it has a lot of various data related to architectural design. But unlike the buildings designed by Gansam Architecture, the method of managing and protecting them was not modern.

Gansam's IT manager created a data backup image using the snapshot function of the storage. The data was stored at a set time every day. Lacking a professional backup solution, the backup was performed by simply copying the data to another storage device with the same capacity.

Gansam
[Architects & Partners]

ORGANIZATION PROFILE

Website: www.gansam.com

Industry: Construction

Headquarters: Seoul, Korea

KEY CHALLENGES

Gansam Architects' manual backup process was difficult to manage, and the company was concerned that data might not be easy to recover in the case of a ransomware attack, or even an internal error. The company wanted to improve backup efficiency and data security with a scalable, field-proven solution.

SOLUTION

Veritas NetBackup Appliance and NetBackup protect an Active Directory (AD) server, a mail server, and a database server, with server virtualization planned for the future.

BENEFITS

- Better protection for 37-year trove of architectural design data
- Greater ease of recovery with industry-leading integrated solution
- Reduced administrative burden through faster, automated backup processes and insightful reports.
- Stronger data and backup appliance security through built-in protection mechanisms
- Improved audit compliance through daily backup of security device logs

However, it was difficult to manage versions for each backup point. If an external attack such as ransomware or data loss due to an insider's mistake were to occur, it was expected that many difficulties would arise in the recovery process.

Eventually, Gansam Architecture decided to introduce a professional backup solution that would effectively protect and manage data while reducing the workload of computer administrators. The Veritas NetBackup and NetBackup Appliance solutions were selected after a careful assessment of various products.

EMPHASIZES FLEXIBLE SCALABILITY AND SERVICE STABILITY

The need for a professional backup solution had been raised long before then, but the decisive moment was a ransomware threat that was rapidly increasing worldwide. With growing concerns that the accumulated data could be blown away in an instant by ransomware, Gansam Architecture began to build a proper backup system.

Senior Chief of Computer Management at Gansam Architecture, Myung-Seok Kim, says, "Gansam Architecture has a lot of intellectual property data accumulated over 37 years in architectural design work, but there was no backup solution that could effectively protect and manage it. In particular, the more data lost due to ransomware infection, the greater the need for a professional backup system."

Accordingly, Gansam Architecture began to review several backup solutions and systems on the market. Gansam compared the specifications that had not been used directly, and finally the Veritas product was selected.

The most important consideration for Gansam Architecture's backup system selection was service stability. By using backup software and general-purpose equipment, it was possible to build a backup system inexpensively, but there was concern that it could not provide service stability as much as an integrated appliance. Moreover, Veritas NetBackup Appliance had the added assurance that it was sufficiently verified at numerous installations around the world.

In addition, as the data increases, the backup data will also increase, so it was important to confirm that the backup system could be easily expanded. Most appliance products are not scalable, so if one needs additional capacity, one must purchase an additional appliance, which is expensive. The NetBackup Appliance has a significant advantage in that it can be expanded inexpensively by purchasing additional storage capacity, rather than additional appliances.

STRENGTH LIES IN FAST BACKUP AND SECURITY INSPECTION

From the time Gansam Architecture decided to introduce the Veritas backup system, the actual backup using NetBackup progressed rather rapidly. In fact, the product installation was completed in one day, from the main backup equipment to the storage and the secondary backup tape device. Once the backup system was installed, the backup schedule was set within a week following a two-day testing period. The first full backup of data was completed in the third week of system introduction, and the second tape backup was completed in the fourth week. Unlike the deployment of other backup systems, Myung-Seok Kim reports, this one was completed in a fairly short time.

The improvement in backup speed was as significant as the pace of system installation. This is because NetBackup schedules backups in parallel, and backups may be initiated on a schedule. Schedules can be set as needed, and schedule management not as tight as in other backup solutions. Other solutions limit the number of backup jobs that can be performed at the same time, but Veritas NetBackup has no such limit, so backups can be performed quickly at any time.

"In terms of experience, it seems that [NetBackup] is faster than other solutions by 50% or more. Overall, data is protected more safely, and the management has become more efficient."

— Myung-Seok Kim, Senior Chief of Computer Management, Gansam Architects and Partners

Another advantage of Veritas NetBackup is that it has an industry-proven security solution built in, which enhances the security of the backup appliance as well as the backed-up data. Thus, data can be safely protected from all types of cyber security threats and the company can maintain an environment where data can be quickly recovered at any time.

“The other backup products that I’ve used so far required setting up a backup schedule and then proceeding sequentially,” Myung-Seok Kim says. “But Veritas NetBackup was able to shorten the [backup] time, because it was able to schedule and run in batches in parallel. In terms of experience, it seems that [NetBackup] is faster than other solutions by 50% or more. Overall, data is protected more safely, and the management has become more efficient.”

“It has been in full operation since last June and about 3 months have passed, but there have been no problems so far, so the satisfaction is quite high.”

— Myung-Seok Kim, Senior Chief of Computer Management, Gansam Architects and Partners

PROVIDES HIGH VISIBILITY, MAXIMIZING SATISFACTION

With Veritas NetBackup, Gansam Architecture can not only protect data more safely and manage it efficiently, but has also reduced backup time, thereby lowering the workload of computer administrators. Three months post installation, there have been no problems, so satisfaction at the company is quite high.

“There was a lot of anxiety about data management, because there was no proper backup system,” Myung-Seok Kim recalls. “But after the introduction of NetBackup, that anxiety disappeared. Above all, since the introduction of the system, no problem has occurred until now, so the reliability of the backup system has increased even further.”

Especially, Veritas NetBackup automatically performs backups based on policies and provides high visibility, including reports, so that administrators don’t need to pay much attention to the backup process. A backup status report—delivered every morning—shows how far the backup has progressed. This helps administrators optimize their backup policies. The daily report also shows whether backups completed successfully or are still in progress.

Currently, Gansam Architecture operates three physical servers, including an Active Directory (AD) server, a mail server, and a database server, and a total of three file storage volumes, including 100TB, 80TB, and 50TB. The company plans to expand the system using server virtualization in the future.

In addition, Gansam Architecture plans to back up log data for security systems such as firewalls and virtual private networks (VPNs). These systems generate log data, which make it possible to trace the history of who accessed the system when and what data was viewed. It is necessary to back up this data for post-audit purposes.

The Veritas NetBackup Appliance deployed at Gansam Architecture can accommodate up to 250TB of backup data, and it is expected to be of great help to Gansam Architecture’s IT design as it can be expanded to the petabyte level.

“The Veritas backup solution is highly satisfactory due to its excellent system stability and scalability, as well as its high backup speed,” Myung-Seok Kim says. “If you are considering an introduction of backup system, I highly recommend Veritas NetBackup.”





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— Myung-Seok Kim, Senior Chief of Computer Management, Gansam Architects and Partners

FOR MORE INFORMATION

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

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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