



Case Study

Synology Backup Software



ABOUT THE CUSTOMER

The company is a 100% employee-owned, elite general construction contractor. It offers the best possible experience for the customers and has a strong presence in the Aerospace, Healthcare, Finance, and Data Center industries.

CHALLENGES

All devices such as desktops, tablets, mobiles are inter-connected across the company's offices and construction sites. The company encourages employees to share construction site images, manipulate designs, build information, and updates using the internet over the data servers.

The IT team at the company had been manually backing up these data onto servers, hard drives, and DVDs. However, the backing and storing performance was not ideal with these manual backup solutions, as it took 2-5 days to restore tasks. Besides, the company didn't have an optimal centralized backup method. Satellite offices adopted various backup methods and solutions, which made it difficult for the IT team to manage backup data in different formats.

OBJECTIVE

A system was needed to have a modern data backup solution that would reduce time consumption due to legacy and slow backup mechanism. The company was looking for a backup solution for its business operation that could centrally backup data on employees' PCs, mobiles, tablets, servers, and virtual machines. It was the situation that the company wanted to have a single console to handle cross-platform backups without purchasing other backup solutions or costly user licenses.

TECHNICAL OVERVIEW

- ✔ Intel Xeon D-1527 Quad-core CPU with up to 2.7GHz
- ✔ AES-NI hardware encryption engine
- ✔ 8 GB (up to 64 GB) DDR4 ECC UDIMM Memory
- ✔ Two onboard M.2 NVMe/SATA SSD slots for system cache
- ✔ Sequential reading throughput speed over 1,523 MB/s
- ✔ 162,097 iSCSI random read IOPS
- ✔ Up to 16 drives with Synology RX1217/RX1217RP
- ✔ 10GbE/25GbE NIC support

SOLUTION

After evaluating the requirements of the company, ISSQUARED® proposed to install Synology Active Backup suite with Synology NAS devices. RackStation RS1619xs+ integrated with multiple backup applications were deployed at the company's corporate office. The NAS RS1619xs+, coupled with upgradable memory, M.2 SSD cache, and Raid 10 configuration, enables the company flexibility, reliability, and efficiency in storage management. Synology's iSCSI and virtualization solutions support backup and restoration for all the virtual machines along with hypervisors.

KEY BENEFITS

Synology RackStation RS1619xs+ has simplified virtualization, data management, and storage maintenance with minimal time and cost investment. Synology NAS with Synology DiskStation Manager (DSM) provides advanced security to protect data against a cyber breach, corruption, and loss. Additional benefits are listed below.



Enterprise Applications: RS1619xs+ comes with multiple fully managed applications and services including, Windows AD & LDAP, Windows ACL, Synology File Station, Firewall, HTTPS, and IP auto-block.

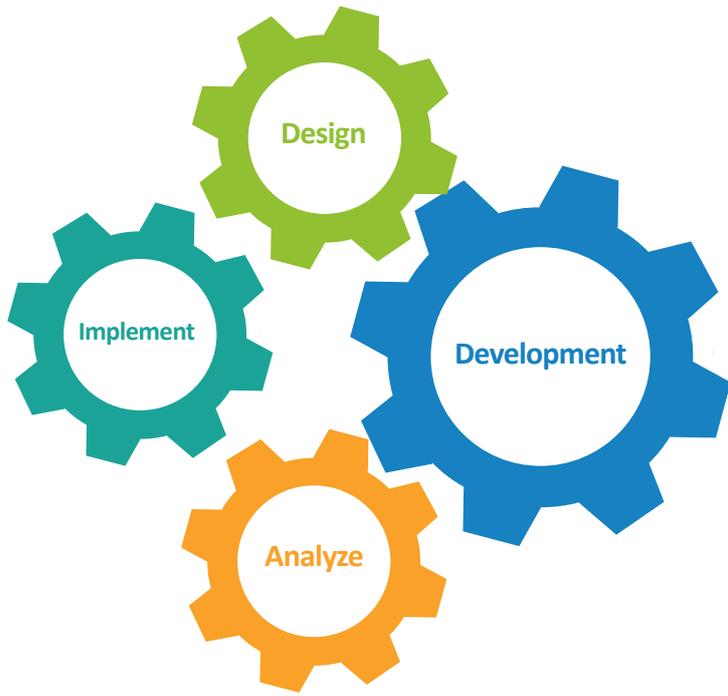
Storage Management: RS1619xs+ brings the most advanced storage solutions such as Btrfs file system, Advanced snapshot technology, Flexible Shared Folder, iSCSI service to manage the needs of modern businesses.

Data Recovery: RS1619xs+ ensures a seamless transition between clustered servers to prevent disaster, loss of data and keeps the server online. Snapshot Replication offers schedulable, enhanced data protection by storing critical business documents in a shared folder.

Collaboration: Synology NAS comes with a collaboration suite that enhances your capability to build a private cloud to collaborate and to improve productivity. Synology suite includes Synology Office, MailPlus, Drive, Chat, & Calendar.

Virtualization: RS1619xs+ empowers virtualization using its Virtual Machine Manager that enables to test of new software in sandboxes, increases the server flexibility, and isolates users' machines.

Future Plans: Even though Synology NAS has its built-in Firewalls, we have proposed the company to install the Cisco firewall into its IT infrastructure. Cisco Firewall is a crucial segment for network security of an organization as it maintains and validates the external access to the network and blocks external threats and accesses.



ISSQUARED®

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ISSQUARED® is headquartered in Westlake Village, California, US. It offers global delivery capabilities with its presence across the UK, Ireland, the Middle East, India, Singapore and other parts of the US too.



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