



CASE STUDY

Offsite backup to cloud using Simple Storage Service (S3)

About The Client

Fives Cail - KCP Limited. With a legacy backed by reputed companies in the industry, Fives Cail-KCP has over 75 years of expertise developing pioneering solutions in close partnership with its customers. From design, supply, installation, commissioning, process optimization, and revamping throughout the equipment life cycle, Fives Cail-KCP offers high-performance sugar and bioenergy solutions and services to its customers while driving projects like True Partners. The equipment at Fives Cail-KCP is designed for sustainable development and to suit the future of manufacturing in this industry.

Executive Summary

Fives Cail-KCP Has Been One Of The World Leaders In Breakthrough Innovations For Decades With The Development Of Equipment Such As Spentwash Incinerators, MSW Boilers, Travelling Grates And Bagasse Reclaimers exclusively.

Uniware Systems is known to Fives Cail-KCP for a decade and is doing maintenance and managing the Cloud IT Infrastructure. With full understanding of their IT infrastructure we consulted and advised them to Migrate to Cloud when they had Tape Backups. The usage of tape backup positioned them in a difficult situation when they decided to place their tape backup at an offsite location during covid situation. So they decided to eliminate it by switching up to a higher valued backup solution with our consultation. Thus Uniware Systems replaced the tape backup by configuring secondary backup from Veeam to cloud (AWS S3).

Challenges

Vulnerability Challenge:

1. The Veeam Tape backup runs on Windows OS. So any kind of malware attack that a normal Windows OS is prone to there were greater possibilities that the Backup might get affected too.

Technical Challenge:

1. The general Technical challenge that is faced from a Tape Backup is the flexibility in storage. As the data input for backup from Fives Cail-KCP grew higher by the years with the purchase of the new and the optimized use of the old became critical
2. Fives Cail-KCP when decided to set up their Tape backup in an offsite location the commutation became critical during Covid.



From Fives Cail-KCP

“Their dedication and real interest to provide the required technology and support to their customers, unlike some vendors who simply push some new technology for commercial interest”

Solution

1. Uniware Systems have deployed a storage gateway in on-prem as a virtual machine and connected S3 to Veeam backup. Then configured backup jobs and completed them successfully.
2. The following AWS services are used to take backup to Cloud - AWS storage gateway and AWS S3
3. Uniware Systems was able to complete the backup within a short period of time frame. The Storage Service was more responsive and resilient to failure. The client is now able to focus on the business development and productivity by their demands they look from Uniware Systems. By establishing a connection, On-Site to AWS Cloud, the Fives Cail-KCP was able to establish a connection and accelerate the Business Operations by not worrying about the Backup Data.

Cloud Storage Service Benefits

AWS Simple Storage Service (S3):

1. Scale your storage resources up and down to meet fluctuating demands, without upfront investments or resource procurement cycles.
2. Store your data in Amazon S3 and secure it from unauthorized access with encryption features and access management tools.
3. S3 maintains compliance programs, such as PCI-DSS, HIPAA/HITECH, FedRAMP, EU Data Protection Directive, and FISMA, to help you meet regulatory requirements.
4. Designed for 99.999999999% of durability, and stores data for millions of applications for companies all around the world.

AWS Storage Gateway:

1. Compression, encryption, and bandwidth management are built-in.
2. Only data that changes are transferred, enabling you to optimize your network bandwidth.
3. AWS Storage Gateway caches data in the local VM or gateway hardware appliance, providing low-latency disk and network performance for your most active data, with optimized data transfers occurring to AWS Cloud storage in the background.
4. Requires no changes to your applications, easily integrating with standard storage protocols on-premises.

Benefits after backing Data to Cloud:

1. Fast, reliable, application-aware, image-based backups.
2. Protect backups with 99.999999999% data durability. Even when following best practices, on-premises capabilities, it cannot match AWS's durability due to our global scale and security.
3. Optimize Data Transfer over the Internet, move petabytes and exabytes of data offline to connect on-prem to AWS.
4. No longer need to wait for weeks to months to procure tapes, disks, and other IT resources to increase your storage infrastructure. This ability to scale on demand can improve operational flexibility, innovation, and business agility.



About Uniware Systems

Uniware Systems represents the world's leading vendors for Hybrid Cloud infrastructure, Cloud Security, Cloud Storage, and Cloud services. With a sustained 25% Annual growth, Uniware Systems Private Limited enhance the benefits of AWS primary storage by extending the functionality of AWS services so that Customer can easily access storage services for workloads of any size. Uniware provides turnkey solutions for companies to start and scale-up. With over 10+ certified cloud experts, Uniware Systems help client extract maximum ROI from their Cloud investments.

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