



CASE STUDY

Offsite backup to cloud using Simple Amazon Glacier Storage for Avant-Garde

About The Client

Avant Garde Systems And Control Pvt Ltd

Avant-Garde is an ASME Certified, ISO 9001:2015 and ISO 17020:1998 accredited Organization with over 30 years of service excellence in Concept-to-Commissioning EPCM (Engineering, Procurement and Construction Management) Services.

Avant-Garde is amongst the few engineering organizations providing total engineering solutions in all disciplines for complete project implementation under one roof with energy efficiency and environmental friendly designs

The Challenges

Ever since COVID Pandemic, like any other large organizations Avant-Garde had to reimagine their cloud IT infrastructure, data operations and secured backups in order to ensure distributed computing, access and storage of latest data, data security, preparedness for any eventuality.

Avant-Garde had been engaging Uniware Systems for a long time for their maintenance and managing the inhouse Datacenter With full understanding of their IT infrastructure, Uniware Systems consulted and advised Avant-Garde to Migrate data Backup to Cloud as Tape Backups may limit their full potential. The client already had been facing challenges as their tape backups resided at an offsite location where unable to maintain frequently by taking backup on periodic basis and their IT team were not able to maintain the Storage media as well for long time.

Also the client's business had exponentially exploded and very much needed elastic storage, enhanced data security while balancing increasing data storage costs. From a manageability perspective too, the client found it was presenting a lot of administrative challenges.

To address the growing list of challenges, Uniware Systems decided to help the client switching to a Cloud-based backup solution.



From Avant-Garde, India

Uniware Systems came up with a well-thought out presentation that precisely matched our vision for modern storage. They see to that Compliance and Governance are taken care of while committed to deliver all proposed deliverables as per the roadmap. We are truly relieved off the pressure aggregated around secure data storage on Cloud.



Uniware Solution Deployment and process :

Uniware have configured the S3 bucket in veeam backup software and moved the backup from on-prem to s3. Created the schedule in veeam backup software, to backup daily with retention based on thier requirement. Backups will be moved to glacier after 10 days , as the schedule is configured in lifecycle controler.

Solution

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.

The following AWS services are used to take backup to Cloud - AWS storage gateway and AWS S3 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, Avant-Garde was able to establish a connection and accelerate the Business Operations by not worrying about the Backup Data.

Secure Cloud Storage Meeting Regulatory Compliance:

The client was able to meet fluctuations in the storage capacity without upfront capex investments or going through resource procurement cycles. By Storing data in Amazon S3 GLACIER, the client was able to secure data from unauthorized access with encryption features and access management tools. By switching to AWS, Avant Garde was able to meet international regulatory compliance needs. This boosted the confidence level among their customers.

AWS Storage Gateway:

With built-in compression, encryption, and bandwidth management the client was able to optimize their network bandwidth. AWS Storage Gateway caches data in the local VM or gateway thereby optimizing data transfers to AWS Cloud storage in the background without having to make no changes to business applications

Arresting Storage Costs with Amazon S3 Glacier Storage Classes:

Uniware Systems enabled the Amazon S3 Glacier storage classes that are purpose-built for data archiving with highest performance, retrieval flexibility, and lowest cost for storage in the cloud.

The Amazon S3 Glacier storage classes provided fastest retrieval access to fit client's performance needs. The S3 Glacier storage classes offered three different forms of encryption and helped the customer meet security standards and compliances.

Benefits after backing Data to Cloud:

- The AWS backend model provided virtually infinite capacity where the customer henceforth is being charged only for the storage capacity utilized
- The client improved operational flexibility, innovation, and business agility by moving their data storage to cloud
- The storage costs got significantly reduced by moving to cheaper, modern and secure storage with Amazon Web Services (AWS)
- Huge volumes of disparate data sets were unified in a secure cloud infrastructure and the migration happened seamlessly with no downtime or user impact
- Users are able to access mission-critical business applications and latest version of information



About Uniware Systems

Uniware Systems promotes the world's leading Cloud Storage vendors for Hybrid Cloud infrastructure, Cloud Security, Cloud Storage, and Cloud services. Uniware Systems maximizes benefits of AWS Cloud Storage Solutions by extending multiple functionality of AWS services so that Customers migrate their workloads to Cloud and easily manage workloads of any size. Uniware provides turnkey solutions for businesses to start and scale-up data storage on Cloud. With our team of certified cloud experts, Uniware Systems help client extract maximum ROI from their Cloud investments.

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