CASE STUDY

Enhanced End-User Connectivity using FSX Windows File Server on AWS Cloud

About K J QUARRIES

K J Quarries is an Indo-Japanese Joint Venture Company in that is one of the pioneers in conducting quarrying & mining activities under professional Japanese management & supervision. KJQ has been operating Granite Quarries for the last 6 years.

K J Quarries is engaged in extraction & export of Granite Rough Blocks exclusively. K J Quarry granites are the Architect's choice due to reliable supply, scientifi¬c quarrying practices, consistency of quality & timely delivery. The success of K J Quarries in providing high return on investing in India is a gateway for overseas investors to set up their projects.

Executive Summary

The Client had been using multiple business automation applications like ERP, Tally Servers and they are hosted with AWS Cloud infrastructure. and was accessed by End-Users from remote workplace and continued to evolve from the year 2019 after Covid Pandemic Situation. Due to Covid-19 lockdown, End-Users were not able to access the In-House Servers frequently due to which they faced complications and business productivity challenges. As their technology partner, Uniware Systems addressed those challenges by moving complete IT Business applications to AWS Cloud. By moving business applications to AWS Cloud, KJ Quarries was able to improve productivity by high-availability to their Amazon EC2 Infrastructure.

Challenges

The Business Applications were on Cloud but not the File Server and storage as they were managed on-prem in a central office. Once moving Business applications, it is indeed a logical roadmap that KJ Quarries thought about moving their file servers and storage servers to Cloud too as users had to use Cloud to access Business Applications and still files were left in their endpoints.

With the insights around increased security breaches and cyber-security threats on end users machines that were geographically distributed, KJ Quarries decided to move File Storage and critical data on Cloud. As an AWS Consulting Partner, Uniware Systems proposed a futuristic solution to move their file servers on AWS Cloud

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Uniware Systems helped us use Amazon FSx for Windows File Server so that we now can securely deliver cost-effective file storage to all our internal and external users at scale. We witnessed increased reliability and scalability with no disruption to our applications. We no longer worry about protecting file data on individual laptops.

Why Uniware Systems?

Uniware Systems has a long-standing vendor relationship with K J Quarries as they support in managing IT Infrastructure both from a hardware and software perspective in a value-adding manner. Uniware Systems as an AWS consulting partner, supports the client with continuous monitoring, maintenance and management of the cloud infrastructure with security guidelines and governance.

The Solution

Uniware Systems moved ERP and Tally application to an EC2 instance running the Windows operating system in the Amazon Web Services (AWS) cloud long period of time. The team together with the customer decided to migrate File server and started using FSX Service to Cloud.

Once the system was stabilized, the team optimized the environment for cost, reliability, and performance. The Open VPN Connection is established with supporting Firewall Appliance available with K J Quarries Organization for secured connection to connect FSX gateway. On additional recommendation, Uniware included AWS VPN Service as well to establish EC2 in case of Firewall Hardware Failure and network connectivity challenge. With existing EC2 Service, the bucket S3 and Cloud Alarm service is enabled for the VPC Logs and to have backup of Database connected to ERP and Tally Business Application.

With this File Servers migration to AWS Cloud, the Client was able to quickly take advantage of the automation and scalability of the cloud, while resolving their latency performance challenges.

Results and Benefits.

•KJ Quarries was able to consolidate multiple file servers and reduce their hardware footprint. Using Amazon FSx for Windows File Server, Client is able to replace huge volumes of self-managed Windows file shares with fully managed SMB file storage.

•The end users witness better performance while accessing their files and business applications in a cloud environment.

•The client also is now meeting their standards for compliance and scalability using FSx for Windows File Server to manage single-tenant customer database environments within a globally consistent storage architecture with virtually no downtime for customers.

•The Client was able to lower their Storage TCO while improving durability with multi-AZ file systems.

•Most importantly, they no longer worry about managing hardware and expanding file storage capacity

About Uniware Systems

Uniware Systems over the decades has helped medium to large enterprise modernize their business model by helping them adapt to IT and Cloud infrastructure, alongside ensuring backup, security and scalability across public, private and hybrid clouds. The Tally ERP application migration to AWS was done by Uniware Systems, a AWS Premier partner for KJ Quarries in a small time frame .The cloud deployment was safe and secure which enforced our End user's work from home (WFH) condition to be back on foot as now they have the means to conduct their bookkeeping and financial compliance anytime anywhere

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