



CASE STUDY

Tally ERP Application Migration To AWS

About The Client

K J Quarries, is an Indo-Japanese Joint Venture Company, in which Katti-Ma has invested to spearhead the 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 Quarries are the Architect's choice due to reliable supply, scientific 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 work with Katti-Ma to set up their projects.

Challenges

K J Quarries is engaged in extraction & export of Granite Rough Blocks exclusively. Initially the Application ERP and Tally Servers was accessed by End-Users within the organization and continued to evolve over the year. Due to Covid-19, the End-Users was not able to Access the In-House Servers frequently which seemed to be a complex task to handle the Power resource systems. To resolve, K J Quarries partnered with Uniware Systems to simplify the complex task by moving the Business application to Amazon Cloud Infrastructure. By moving to Cloud, K J Quarries was able to improve productivity by constant access to the Amazon EC2 Infrastructure.

1. KJ Quarries faced maintenance challenge when the IT Representatives or Security Patrols were not available frequently at the organization. K J Quarries faced difficulties on maintaining the Systems and they were not able to avoid the frequent Power failures.

2. KJ Quarries team faced connectivity issues to access ERP and Tally

Application Server while Working from Home which is a great technical challenge for them. Due to the Internet Bandwidth, Firewall VPN Connection failure and Network Connectivity issues, the End Users were not able to show improvement on the productivity.

3. IT Representatives were unable to monitor & manage the System Updates and Patches for the Applications, Servers, Firewall Desktop machine .The IT representative were worried about security and health status of both Software and Hardware Appliance which stimulated as a big monitoring challenge.

4. Sourcing of ERP and Tally application by KJ Quarries rendered them quite a big slay on their investments on servers and data storage devices . They used it to carry out the processing of day-to-day accounts and invoices needs, causing higher data accumulation.

5. The higher data accumulation, affected server performance issues causing the flooding of OS and they faced situations nearer to server downtime.



Solutions procured:

- Integrated Remote Desktop Gateway from Windows platform to AWS EC2
- Extended on-premises networks to the cloud with secured connection
- Established AWS VPN service
- Indulged bucket S3 and Cloud Alarm service



Solution

Uniware Systems migrated the ERP and Tally application to an EC2 instance running the Windows operating system in the Amazon Web Services (AWS) cloud. The team together with the customer decided to lift & shift the application, to quickly perform the migration. Once the system was stabilized, the team optimized the environment for cost, reliability, and performance. The migrated workloads are hosted on load balanced EC2 instance with a Windows Server 2012/2016 as the operating system, and they are configured to support both Microsoft and Business Applications.

- Uniware Systems' team also implemented the Remote Desktop Gateway integrated on a Windows EC2 instance with secured communication to reach Tally Business Application.
- For ERP, the Uniware Systems configured SSL VPN Client individual End User Machine to have secured access to EC2, ERP Application.
- Uniware Systems extended on-premises networks to the cloud by establishing secure connection from anywhere using Firewall Appliance located in Organization.
- The Open VPN Connection is established with supporting Firewall Appliance available with KJ Quarries Organization for secured connection.
- On additional recommendation, Uniware Systems included AWS VPN Service as well to establish EC2 in case of Firewall Hardware Failure and network connectivity challenge.
- With 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.

Benefits

Uniware Systems was able to complete the migration to windows on the AWS cloud within a short period of time frame.

- The ERP and Tally workload was more responsive and resilient to failure.
- The client was able to access anytime, anywhere, any place without depending on the power resource, network cut off and internet connectivity.
- Tally on AWS cloud became a multi-tier application making it user friendly over the internet and can be used in a distributed manner to use at different branches and at different locations.
- The client is now able to focus on the business development and productivity by their demands they look from Uniware Systems.
- By establishing connection in two different manner, On-Site to AWS Cloud and WFH to AWS Cloud, the K J Quarries were able to establish connection and accelerate the Business Operations by not worrying about the Infrastructure.
- The K J Quarries Cloud Infrastructure is now managed by Uniware Systems with regular maintenance by staying up to date on Windows OS and Business applications.
- The K J Quarries application and data is on minimal risk.
- The communication and network traffic in all parts of application is encrypted for data on rest and data on transit.



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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