CASE STUDY

Migrating ERP application to AWS

About The Client

IEC FabChem, India's leading company in water disinfection and process heat transfer. IEC has always been at the forefront of technology and spends over 5% of turnover on R&D- an anomaly in the industry. IEC FabChem plants are operating for 25 years and counting and decisions are based on long-term goals and reputation is the most important asset.

Executive Summary

IEC FabChem is engaged in water disinfection and the process of heat transfer exclusively. Initially, the Tally Servers were accessed by End-Users within the Organization and the server is located in Gummidipoondi Factory Unit. During the Covid-19 pandemic situation, the employees have no remote access permission, no Firewall appliance for a local connection, and forced to visit the Factory unit to access the server and to switch on the machines. To overcome this situation and to resolve it, IEC Fabchem partnered with Uniware Systems to simplify the complex task by moving the Business application to Amazon Cloud Infrastructure. By moving to Cloud, IEC FabChem was able to improve productivity by constant access to the Amazon EC2 Infrastructure.

Challenges

1. IT Representatives or Security Patrols were not available frequently at the Organization. IEC FabChem faced difficulties in maintaining the Systems and not able to avoid the frequent Power failures.

2. IEC FabChem Team faced connectivity issues to access Tally Application Server during WFH. Due to Power and Network Connectivity issues the End-Users were not able to show improvement in productivity.

3. Sourcing of ERP and Tally application by IEC FabChem 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 invoice needs, causing higher data accumulation.

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

Solution highlights:

- Quicker deployment from ERP server to AWS EC2 instance
- Optimized EC2 environment for server, cost, and availability
- Enabled bucket S3 and Cloud Alarms for VPC logs
- Implementation of VPN server for secure connection
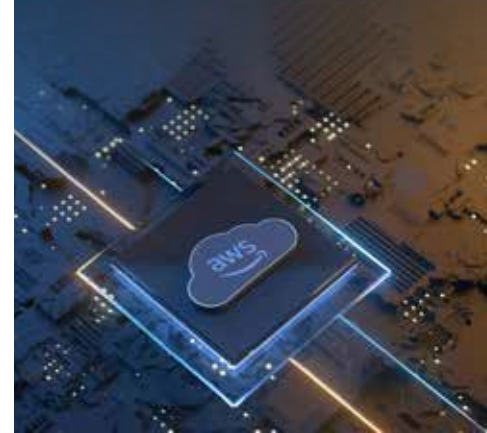
Solution

1. Uniware Systems migrated the 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.

2. Uniware team also implemented the Remote Desktop Client Access License for secured communication to reach Tally Business Application. Uniware offered a solution to buy Firewall and implemented for secure connection to access to EC2, Tally Application. Also to protect the local area network and to connect existing FTP Server available on AWS Cloud. Uniware extends on-premises networks to the cloud by establishing a secure connection from anywhere using Firewall Appliance located in Organization.

3. The SSL VPN Connection is established with a supporting Firewall Appliance for secured connection. With EC2 Service, the bucket S3 and Cloud Alarm service is enabled for the VPC Logs and to have a backup of Database connected to Tally Business Application.

Benefits

1. Uniware Systems was able to complete the migration to windows on the AWS cloud within a short period of time frame. The Tally workload was more responsive and resilient to failure. The client was able to access anytime, anywhere, anyplace without depending on the power resource, the network cut off, and internet connectivity.

2. The client is now able to focus on the business development and productivity by their demands being looked after by Uniware Systems. By establishing connections in two different manners, On-Site to AWS Cloud and WFH to AWS Cloud, the IEC FabChem was able to establish connections and accelerate the Business Operations by not worrying about the Infrastructure.

3. The IEC FabChem Cloud Infrastructure is now managed by Uniware Systems with regular maintenance by staying up to date on Windows OS and Business applications. The IEC FabChem application and data are at minimal risk. The communication and network traffic are in all parts of the application are encrypted to both data on rest and data on transit.

About Uniware Systems

Uniware Systems helps global businesses start and scale their digital business models on Cloud by modernizing IT infrastructure, ensuring backup, security and scalability across public, private and hybrid clouds. With decades of driving innovation, the world's largest companies trust Uniware Systems to deploy our enterprise technology stack to deliver new levels of performance, competitiveness and customer experiences. Learn more about the Uniware Systems, our focus on building technical expertise and customer success at www.uniware.net

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