JESCO Modernizes and Transforms Operations with SAP on AWS

JESCO Modernizes by Transforming Operations with SAP on AWS for Agility, Scalability, and Data Security

About the Customer

Jubail Energy Services Company (JESCO) is a leading manufacturer of carbon steel seamless pipe products for the oil and gas sector. With a state-of-the-art facility in Jubail, Saudi Arabia, the company manufactures and distributes seamless steel pipes of various dimensions mainly in the Middle East but is also growing across other markets. From its ideal location to deliver GCC development projects across the region, JESCO has had a tremendous impact in shortening supply chains by thousands of miles and saving hundreds of days of delays.
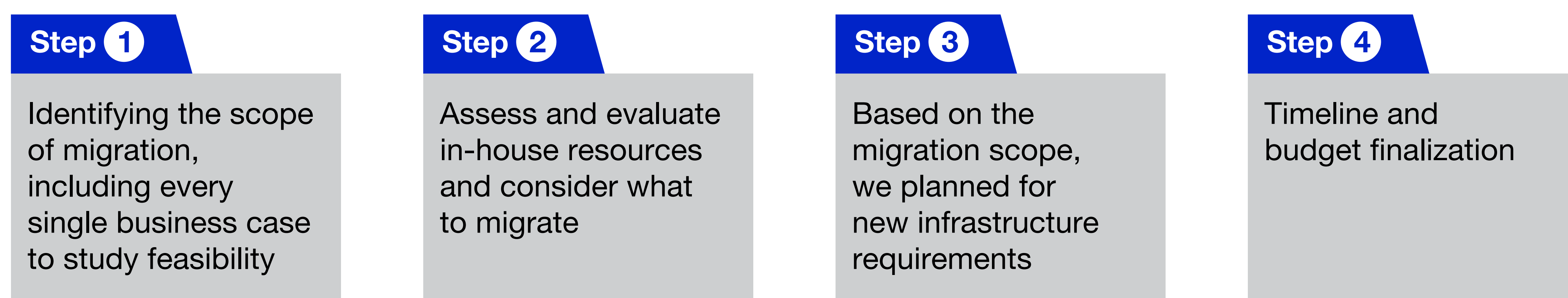
JESCO is recognized as an important player in realizing the Saudi Vision 2030 of growth, empowerment, and leadership. To achieve their goal of becoming a leading SMLs manufacturer, and to be better placed to leverage the current market outlook and global demand, JESCO wanted to revisit their IT setup to modernize their ecosystem for greater efficiency.

The Challenge

- JESCO's existing IT infrastructure and bloated SAP-based ERP systems rendered operational systems highly inefficient in terms of cost, effort, and time.
- There was an unacceptable latency in data access and communication, which delayed delivery further.
- Upgrading critical workloads within their existing infrastructure would not be sufficient to meet business demands.
- Existing security controls had become inadequate, which risked compliance with local and global regulations.
- The client needed an experienced partner who could undertake the entire project, from design to migration and maintenance under a single SLA. The client required a highly scalable, cost-effective solution with assured business continuity.

The Solution

We started with an initial cloud requirement assessment to identify existing organizational workloads (infrastructure, application, data, and workplace), current state, and chart a plan for a seamless and successful migration. For JESCO, our assessment involved the following steps:

Step 1	Step 2	Step 3	Step 4
Identifying the scope of migration, including every single business case to study feasibility	Assess and evaluate in-house resources and consider what to migrate	Based on the migration scope, we planned for new infrastructure requirements	Timeline and budget finalization

After the in-depth cloud assessment, Cloud4C suggested migration with the modernization of existing SAP workloads from their in-house SAP HEC Germany to AWS Cloud.

Overall, the project involved the technical upgrade from the existing EHP 7.0 to 8.0. With detailed planning, Cloud4C was able to complete the zero-friction SAP on AWS migration in record time. We ensured that the IT infrastructure overhaul did not have any business impact on operations or the users.

End-to-end Migration with Modernization

We redesigned their IT architecture on the AWS Cloud platform, customized for hyper agility, scalability, and world-class security. We leveraged AWS Cloud's suite of infrastructure services for a highly available, fault-tolerant, and affordable SAP HANA deployment.

Seamless Migration

Cloud4C provided complete SAP services provisioning on the certified SAP instances for different functionalities such as Network, Monitoring, Security, Backup, High Availability, DR, etc.

Secure, Scalable, and Fast

Cloud4C experts integrated task automation and intelligent workflow management capabilities for a streamlined user experience, which boosted efficiency across the organization. The highly scalable solution has best-in-industry RPO/ RTO on top of SAP certified instances following SAP benchmarks with integrated monitoring, backup, HA/ DR capabilities as required in that particular instance.

Cost-efficiency

We enabled the L1support layer to resolve issues at the initial stage with better tools and access, so the number of tickets raised and resolved at higher levels (L3, L4) has been significantly reduced.

> Cloud4C leveraged SAP on AWS expertise for a seamless migration of JESCO's entire IT infrastructure to the cloud for hyper scalability, streamlined user experience, and cost optimization while ensuring minimal disruption for users

Key Accelerators

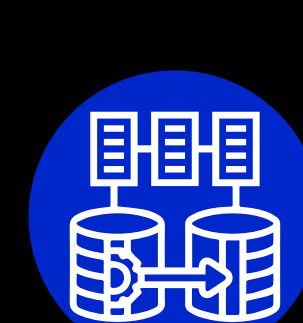- AWS Cloud Assessment and POC to understand JESCO infrastructure cloud readiness.

- SAP Migration Factory - Cloud4C's framework for enterprises to achieve digital transformation, meet regulatory compliance needs, ensure business continuity with an end-to-end suite of security controls and managed services up to SAP Basis support powered by AIOps. It is an SAP ERP-specific Cloud Adoption Framework which has been benchmarked against SAP metrics for a successful migration using an automated approach, industry-best tools, and leading practices. It helps maximize SAPS/4HANA use for your business while ensuring the lowest TCO and highest security. SAP Migration factory for an efficient, streamlined migration.

- End-to-end SAP on AWS migration and management focused on business growth.

- Cloud4C managed services with frameworks as per ITIL, ITSM, COBIT, Six Sigma, PMI, SSR, etc.

- CloudEndure - AWS Disaster Recovery solution that provides scalable, cost-effective business continuity for cloud servers. It minimizes downtime and data loss by providing fast, reliable recovery of physical, virtual, and cloud-based servers into AWS Cloud. CloudEndure protects most critical databases including Oracle, MySQL, and SQL Server as well as enterprise applications such as SAP.

  It continuously replicates an enterprise's machines (including operating system, system state configuration, databases, applications, and files) into a low-cost staging area and in case of a disaster, automatically launches thousands of enterprise machines in their fully provisioned state in minutes. CloudEndure thus significantly reduces disaster recovery costs.

The Results

Cost-saving
50% reduction in overall IT costs

Speed and agility
Integrated task automation for employees that improved workflows, eliminated inefficiencies, and reduced costs with 50% faster resolution

Lowest latency
By updating the infrastructure from on-premise to Bahrain AWS, latency is almost eliminated

Recovery and compliance
The new solution included robust compliance and BCDR capabilities for the client

Greater efficiency
24x7 hour operation and maintenance for uninterrupted business continuity with stringent RTO/ RPO

High availability
99.99% uptime and high availability of applications