

# FUELING EFFICIENCY: REDUCING INFRASTRUCTURE COSTS AND TIME-TO-MARKET FOR THE OIL AND GAS INDUSTRY



## CLOUD: APPLICATION MODERNIZATION

The client is a leading privately owned oil and gas exploration and production company operating primarily in the Middle East. Its focus is on sustainable energy development and innovation.

Their existing infrastructure lacked the scalability and agility required to meet evolving business demands, which was crucial for its continued growth and operational efficiency.

## THE CHALLENGE

The client's key challenge was managing technical debt and modernizing their infrastructure to meet their growing needs. Specifically, they faced:

- **Scalability Issues:** Their existing infrastructure could not dynamically scale based on demand, leading to underutilization during peak times and inefficient resource management.
- **High Infrastructure Costs:** The need for optimized resource allocation and scaling capabilities resulted in higher operational costs.
- **Future Growth Limitations:** The inability to modernize applications restricted the client's ability to support future growth and innovation initiatives.

## ZAINTECH SOLUTION

TO ADDRESS THESE CHALLENGES, ZAINTECH IMPLEMENTED A HOLISTIC MODERNIZATION APPROACH THAT INCLUDED:

- **Designing a DevOps Pipeline** – ZainTECH provided consulting services to design a streamlined DevOps pipeline, which facilitated faster and more reliable deployments, improving development and operations collaboration.
- **Containerization** – The client's monolithic applications were containerized, allowing for a more modular and scalable application environment, leading to improved agility and easier management of application workloads.
- **Deployment Modernization** – The deployment process was updated, allowing for more efficient and faster releases of updates, which minimized downtime and improved overall system responsiveness.
- **Azure Kubernetes Service (AKS) Enablement** – ZainTECH migrated the client's applications to Azure AKS, providing dynamic scaling capabilities, ensuring optimal performance, and reducing resource wastage.

## BUSINESS IMPACT

The modernization effort delivered several critical outcomes:

1

### IMPROVED SCALABILITY



By migrating to Azure AKS, the client gained the ability to scale applications dynamically based on demand, leading to optimal performance and resource utilization. This allowed for greater efficiency in managing workloads.

2

### COST OPTIMIZATION



Azure AKS's efficient resource allocation and scaling capabilities helped the client optimize infrastructure costs by 20% while maintaining performance and reliability.

3

### FUTURE READINESS



With a modernized and scalable platform, the client can now support future growth and innovation initiatives, reducing the time-to-market for new applications by 30%.

## WHY ZAINTECH?

ZainTECH's tailored modernization approach allowed the client to overcome significant infrastructure challenges, transforming their operations into a more agile, scalable, and cost-efficient environment. As a result, the client is better positioned to handle future demands and maintain a competitive edge in the rapidly evolving oil and gas industry.



## ABOUT ZAINTECH

ZainTECH is a regional integrated digital solutions provider, unifying Zain Group's ICT assets to offer a unique value proposition of comprehensive digital solutions and services under one roof. The company drives the digital transformation of customers in the MENA region by providing a center of excellence and managed solutions across cloud, cybersecurity, big data, drones and robotics and digital solutions.

ZainTECH operates in Kuwait, Saudi Arabia, Bahrain, Jordan, Iraq, Sudan, South Sudan, and the United Arab Emirates, as well as in other key markets in the Middle East.

Discover how ZainTECH Cloud Services can **help your organization achieve greater operational resilience and improved business outcomes.**

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