

Cloud4C Delivers Optimized Private Cloud Infrastructure for PIL, India's Largest Bi-Directional Pipeline

Cloud4C's consultative Managed Services with integrated DR delivers secure, compliant and scalable private cloud architecture, ensuring business continuity for manufacturing major

Pipeline Infrastructures Limited (PLI) wanted to move their private cloud infrastructure from the erstwhile vendor for an optimized IT environment, assuring uninterrupted business continuity. They needed a mature cloud solution partner to build a robust, secure and easily scalable landscape. Cloud4C emerged as the partner of choice, rising above other competitors for our proven expertise and consultative approach to delivering Managed Services with complete ownership

About the Client

200-500
Employees

Pipeline Infrastructure Limited (PIL) owns India's first bi-directional pipeline which is connected to all major pipelines in the country. The company is owned by India Infrastructure Trust, an infrastructure investment trust sponsored by global asset management leader, Brookfield Asset Management.

PIL owns and operates a 48 inch Diameter, 1480 km long Kakinada to Bharuch Pipeline (PIL Pipeline) a Natural Gas transmission pipeline connecting major domestic supply hubs in India's east, to key demand centers in the west. It is a vital link in India's national gas grid.

The Challenge

Zero Infrastructure Visibility and Low Control

PIL was dependent on the erstwhile vendor for infrastructure support. The landscape had grown vast and PIL had limited control over the infrastructure or data. The thinly spread infrastructure led to cost overrun. The need for an advanced IT modernization solution as per high industry standards was acutely felt.

Suboptimal DR Solution

DR solution and drills were controlled by the former vendor and PIL had limited visibility. The client was unsure of the overall solution, as well as failover and failback mechanism. There was no clarity even for the implementation of VMs, creating an unstable environment within the organization.

Security and Compliance Concerns

The client's security parameters had to be revisited as per new standards. With limited control, PIL was unable to ensure secure access for internal users as well as external vendors. The existing environment was also not geared to meet the compliance requirements.

Low Scalability and High Dependency

The infrastructure had to be optimized for improved visibility. PIL needed a scalable platform for each internal business application group. The platform had to be optimized to support the business growth at all stages. They were in search of a reliable partner who can offer end to end management solutions and support the business with innovation capabilities.



The Solution

Cloud4C proposed a private cloud architecture with Infrastructure as a Service (IaaS) and optimization at multiple levels. Our consultative approach and expertise in Managed Services won PIL's confidence. The proposed solutions included SAP workload migration, secure deployment of enterprise applications and Disaster Recovery service with bi-annual drills for uninterrupted business continuity. Our Managed Services, powered by AIOps ensured secure access to systems for internal and external users.

Optimized Private Cloud Infrastructure for Mission Critical Applications

We ensured frictionless migration with Infrastructure as a Service (IaaS), delivering a robust architecture for high visibility. Our teams delivered industry best solutions as per SAP best practices and deployed the workloads in our private cloud facilities at Hyderabad and Mumbai. The platform was designed to cater to peak and trough loads at any time, with easy scalability measures.

Integrated DR for Business Continuity

PIL required an efficient DR solution to ensure business continuity even during unexpected interruptions. Cloud4C integrated a disaster recovery solution to deliver optimum application performance for client systems. Consistent monitoring by Cloud4C's skilled experts and workload replication ensured stringent RTO/RPO. The DR workloads were hosted in Hyderabad for easy accessibility and high availability of applications. Considering the criticality of business and applications, we provided biannual drills, guaranteeing safety of data in case of unexpected outage or incidents.

Security Architecture for Resilience

PIL required a robust architecture with secure access for internal users and external vendors. We designed the solution with a virtual layers for perimeter and internal security mechanisms, preventing data leak, and breach proof security to apprehend and neutralize any malware / ransomware threats at different levels. A safe access mechanism was implemented with IPSEC/SSL and SCAP for automation, adhering to compliance regulations. Client's security posture was enhanced with deployment of Security Information and Event Management (SIEM), HBSS and SNMP alert mechanisms.

AIOps Powered Managed Services for Easy Scalability

Our managed service solution powered by AIOps framework takes complete ownership for peak performance of client systems. Our 23 CoEs with their multi-skilled, multi technology expertise, deliver a fully optimized infrastructure with assured and predictable outcomes governed under single SLA. The overall expert managed services improved visibility of applications and built a secure infrastructure with capabilities to scale up as per organizational requirements. Our unique solution helped reduce TCO by 40% besides optimizing the overall

Key Accelerators



AIOps powered Managed Services
delivered context aware automation for optimized processes



Frictionless SAP migration to virtual private cloud
ensured high availability



Integrated DR
ensured business continuity in the event of any unexpected incident