



Case Study – Private Cloud + Assured + Secured- Oil & Gas

Yemen LNG reduce operational and capital expenditures while improving business agility by moving to a private managed cloud



About Yemen LNG

Yemen LNG is a joint venture between the government of Yemen and various stakeholders, the largest of which is Total. Launched in 2005 this is the biggest ever foreign investment in Yemen at around 4.5 Billion USD. Yemen LNG exports the Natural Gas resources of Yemen to the world. It is a key pillar to the economic development of Yemen.

Requirement:

As the security situation in Yemen deteriorated in 2014 the leadership team of Yemen LNG decided to de-risk having their IT platform in Yemen and decided to they wanted a Private Managed Cloud hosted in the UAE. A critical requirement was to safely migrate all Yemen LNG's data and complete the migration during a very small change window. As you can imagine IT is critical component to Yemen LNG's plant production.



Outcomes

- ✓ Migration to a private cloud in the UAE with no downtime
- ✓ Restoration of all Data and Applications
- ✓ A private dedicated cloud hosted in a Equinix
- ✓ High performance storage, networking and compute providing blistering performance
- ✓ A dedicated end to end low latency WAN form Dubai to Yemen
- ✓ The ability to consume a dedicated private cloud as an OpEX with a 70% saving when compared to building it themselves
- ✓ A IT infrastructure that requires zero capital expenditure
- ✓ A Managed Service for IT infrastructure
- ✓ A highly secure environment protected by 2FA, multiple Firewalls and Antimalware and monitored by a SIEM and SOC
- ✓ By providing a fully managed service they now comply with their global standards of preventative maintenance of their IT infrastructure, all for a fraction of the price.

Solution:

The solution consisted of Cisco UCS blade servers connected via a 10GB backbone to high performance NetApp storage. Multiple ISP links provided redundancy and load balancing and a managed WAN managed to keep latency to below 80ms.

The migration was a key element in this solution and BIOS worked closely with the Yemen LNG IT team to onboard data and test applications. Seeded Data was then synced using Zerto and then the existing production environment was cut over to the new platform became production. Downtime was less than 30 minutes.

During the project the security situation had worsened leading to greater urgency. From when BIOS received the production data the entire setup was built and ready to be used in 8 days.

The solution is managed by BIOS Assured and Secured by BIOS Secured (Below).

