SERVICE PROVIDER

USE CASE

GLOBAL SERVICE PROVIDER ENGAGES COMPUTACENTER TO DESIGN AND DEPLOY THEIR NEW CONVERGED INFRASTRUCTURE

OBJECTIVE:

This customer had a requirement to upgrade their legacy data centers in order to accomplish the following key objectives; modernize existing EOL system inventory, eliminate local storage liability, reduce need for additional shared storage purchase and integration, eliminate EOL ESXi 5.5/6.0 OS's, enable HA/DRS for platform resiliency, enable Kubernetes "Infrastructure wide" capability, enable user portal for self-provisioning of approved ASPR compliant systems and consolidate physical Infrastructure and reduce data center footprint.

These objectives were based on the following challenges the customer was facing including; EOL Hardware – servers 8.5 years old average, local storage issues/outages caused by lack of High Availability/Distributed Resource Service as well as capacity constraints, with minimal capacity to provision more VM's. In addition, the Customer's ESXi 5.5 OS and RHEL 6.x OS were out of date, they had to use manual scripts/disparate tools to accomplish their operational tasks and they needed a uniform infrastructure monitoring capability to support their operational and customer requirements.

SOLUTION:

Technical Design

- Storage, compute and networking virtualization, advanced management capabilities including automation .
- In partnership with the customer, Dell and VMware, developed site project plans, checklists and pre-deployment requirements for the VXRail, VCF/Tanzu topology.

Deployment

- Computacenter deployed the VXRail infrastructure in California, setup up the VMware VCF Management and Payload Clusters and prepared the environment for the Tanzu deployment.
- The deployment included rack infrastructure assembly, connectivity to power, network and management systems, integration with customer network, firmware updates and RASR procedures. Computacenter, then configured DRACs, VXRail Manager, JSON installation script populated with PEQ information, Management Cluster with vCenter, and relevant ESXi bundles. These steps were done in preparation for the VCF deployment.
- The final steps were to deploy Cloud Builder, setup VCF design data, configure 1st Workload Cluster and Network Fabric and integrate VXRail into the VCF Workload Domain.

OUTCOME:

- Designed and deployed customer's next generation platform to standardize the infrastructure supporting all of their applications and services.
- Modern data center based on extensible architecture, cloud features including centralized management, provisioning and governance in addition to a predictable cost model based on known building blocks.