

## **COURSE OUTLINE: Technology Infrastructure Program**

### **Level-3[3-Days / 24 Hours]**

#### **Data Center Implementation and Architecture**

- Physical Datacenter and Software defined Datacenter (SDDC)
- Creating a Software defined datacenter using VMware Products

#### **Storage Technologies Overview**

- Storage technologies used in Software Defined datacenter (VMware and Hyper-V)
- Attaching NAS and SAN storage to VMware SDDC
- Storage services offered in the cloud (AWS, Azure and GCP)
- Working with Object, File and Block storages in the cloud

#### **Database Technology Overview**

- Understanding unmanaged, managed and Serverless Databases in the cloud
- Deploy SQL, No-SQL and NoSQL Databases in the cloud (AWS, Azure and GCP)

#### **Network and Security**

- Creating Virtual private networks in the cloud
- Options for establishing Hybrid connectivity from on-prem to cloud
- Network Security – Firewalls at Network, Subnet and interface
- Routing the network Traffic
- Different tools to protect the infrastructure at Layer-3, Layer-4, Layer-6 and Layer-7
- Network Monitoring

#### **Operating Systems**

- Deploy Windows and Linux OS based virtual Machines in Virtual infrastructure
- Deploy Windows and Linux OS based virtual Machines in the Cloud

#### **Microservices and Serverless**

- What is Microservice Architecture
- What is Serverless solutions
- Deploy a simple microservices based solutions in the cloud
- Deploy a simple Serverless solutions in the cloud