

## VMware 6.0(2V0-621D)

**Exam Description:** Install, Configure, manage is one of the best course for virtualization. It features intensive hands-on training that focuses on installing, configuring, and managing VMware vSphere® 6, which includes VMware ESXi 6 and VMware vCenter Server 6. This course prepares you to administer a vSphere infrastructure for an organization of any size and forms the foundation for most other VMware technologies in the software-defined data center.

- 1.0 Introduction**
- 2.0 Software Define Data Center**
- 3.0 Introduction to Virtual Machines**
- 4.0 vCenter Server**
- 5.0 Configuring and Managing Virtual Networks**
- 6.0 Configuring and Managing Virtual Storage**
- 7.0 Virtual Machine Management**
- 8.0 Resource Management and Monitoring**
- 9.0 vSphere HA and vSphere Fault Tolerance**
- 10.0 Host Scalability**
- 11.0 vSphere Update Manager and Host Maintenance**

### **1. Introduction**

- 1.1. Introduction to VMware
- 1.2. Introduction to Virtualization
- 1.3. Role of virtualization in Cloud
- 1.4. Introduction to different types of Hypervisors

### **2. Software Define Data Center**

- 2.1. What is ESX and ESXi
- 2.2. Installing, Configuring & Managing ESXi
- 2.3. Installing vSphere

### **3. Introduction to Virtual Machines**

- 3.1. Introduce virtual machines, virtual machine hardware and virtual machine files.
- 3.2. Create and work with virtual machines and templates

### **4. vCenter Server**

- 4.1. Introduce the vCenter Server architecture
- 4.2. Deploy and configure vCenter Server
- 4.3. Use vSphere Web Client
- 4.4. Manage vCenter Server inventory objects and licenses



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- 5. Configuring and Managing Virtual Networks**
  - 5.1. Describe, create, and manage standard switches
  - 5.2. Configure virtual switch security and load-balancing policies
  - 5.3. Create, configure, and manage vSphere distributed
  - 5.4. switches, network connections and port groups
  
- 6. Configuring and Managing Virtual Storage**
  - 6.1. Introduce storage protocols and storage device types
  - 6.2. Discuss ESXi hosts using iSCSI and NFS storage
  - 6.3. Create and manage VMFS and NFS datastores
  - 6.4. Introduce VMware Virtual SAN™
  - 6.5. Introduce Virtual Volumes
  
- 7. Virtual Machine Management**
  - 7.1. Use templates and cloning to deploy new virtual machines
  - 7.2. Modify and manage virtual machines
  - 7.3. Perform vSphere vMotion and vSphere Storage
  - 7.4. vMotion migrations
  - 7.5. Create and manage virtual machine snapshots
  - 7.6. Create vApps
  - 7.7. Introduce the types of content libraries and how to
  - 7.8. deploy and use them
  
- 8. Resource Management and Monitoring**
  - 8.1. Introduce virtual CPU and memory concepts
  - 8.2. Configure and manage resource pools
  - 8.3. Describe methods for optimizing CPU and memory usage
  - 8.4. Use various tools to monitor resource usage
  - 8.5. Create and use alarms to report certain conditions or events
  - 8.6. Identify and troubleshoot virtual machine resource issues
  - 8.7. Introduce vRealize Operations Manager for data center
  - 8.8. monitoring and management
  
- 9. vSphere HA and vSphere Fault Tolerance**
  - 9.1. Explain the vSphere HA architecture
  - 9.2. Configure and manage a vSphere HA cluster
  - 9.3. Use vSphere HA advanced parameters
  - 9.4. Introduce vSphere Fault Tolerance
  - 9.5. Enable vSphere Fault Tolerance on virtual machines
  - 9.6. Introduce vSphere Replication
  - 9.7. Use vSphere Data Protection to back up and restore
  - 9.8. data

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### 10. Host Scalability

- 10.1. Describe the functions and benefits of a vSphere DRS cluster
- 10.2. cluster
- 10.3. Configure and manage a vSphere DRS cluster
- 10.4. Work with affinity and anti-affinity rules
- 10.5. Use vSphere HA and vSphere DRS together for business continuity
- 10.6. continuity

### 11. vSphere Update Manager and Host Maintenance

- 11.1. Use vSphere Update Manager to manage ESXi patching
- 11.2. Install vSphere Update Manager and the vSphere Update Manager plug-in
- 11.3. Update Manager plug-in
- 11.4. Create patch baselines
- 11.5. Use host profiles to manage host configuration compliance
- 11.6. Scan and remediate hosts



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