Data Center Virtualization Fundamentals [V6.5]

- 1. Course Introduction
- Course Introduction
- Course Objectives
- Course Outline
- 2. Introduction to Data Center Virtualization with VMware vSphere
- Module Objectives
- VMware's Integrated Architecture Vision
- VMware's Integrated Architecture Vision (cont'd)
- VMware Cross-Cloud Architecture
- Virtualization Overview
- Virtualization Overview (Cont'd)
- Data Center Virtualization
- Need for Data Center Virtualization
- Need for Data Center Virtualization (Cont'd)
- Introduction to Virtual Machines
- Virtual Machine Capabilities
- Benefits of Using Virtual Machines
- Benefits of Using Virtual Machines (Cont'd)
- Hypervisor
- vSphere ESXi Hypervisor
- vSphere 6.5 The ideal Foundation of Any Unified Cloud Environment
- Capabilities of vSphere 6.5
- Capabilities of vSphere 6.5 (Cont'd)
- Benefits of vSphere 6.5
- Review of Module Objectives
- 3. Components of VMware vSphere
- Module Objectives
- vSphere 6.5: Overview
- vSphere 6.5 Architecture
- Topology of vSphere 6.5 Data Center

- vSphere 6.5 Configuration Maximums
- vCenter Server
- vCenter Server Features
- vCenter Server Appliance 6.5 Feature Benefits
- vCenter Server Appliance 6.5 Exclusive Features
- Migration Tool
- vCenter Server Appliance 6.5 Operational Advantages
- vSphere Management Interfaces
- Shared Storage
- Storage Protocols
- Datastores
- VMware vSAN
- Virtual Volumes
- Networking Features in vSphere
- Virtual Networking
- Virtual Networking
- Virtual Switches
- vSphere Standard Switches
- vSphere Distributed Switches
- Introduction to NSX
- Security Features in vSphere
- vSphere Resource Management Features
- vMotion
- Distributed Resource Scheduler
- Predictive DRS
- Network Aware DRS
- DPM
- Storage vMotion
- Storage DRS
- Storage I/O Control
- Network I/O Control
- vSphere Availability Features
- High Availability
- vSphere HA Orchestrated Restart
- Proactive High Availability
- Fault Tolerance
- vSphere Replication

- vSphere 6.5 Universal App Platform
- vSphere Integrated Containers
- vSphere Integrated Containers How it works
- Key Benefits of vSphere Integrated Containers
- Data Center Virtualization Products: Overview
- vSphere with Operations Management: Introduction
- vSphere with Operations Management: Overview
- vSphere with Operations Management: Features
- vSphere with Operations Management: Capabilities
- vSphere with Operations Management: Capabilities (cont'd)
- vSphere with Operations Management Benefits to
- **Customers/Organizations**
- vRealize Suite
- Software-Defined Storage VSAN
- Software-Defined Networking NSX
- VMware Hyper-Converged Software Offerings
- VMware Integrated OpenStack
- Cloud Services vCloud Air
- Introducing VMware Cloud Foundation
- VMware Cloud Foundation SDDC Manager
- VMware Cloud Foundation Building the Private Cloud
- VMware Cloud Foundation Benefits
- VMware Cloud on Amazon Web Services (AWS)
- Review of Module Objectives
- 4. vSphere Solutions to Data Center Challenges
- Module Objectives
- Data Center Challenges
- Availability Challenges
- Scalability Challenges
- Management Challenges
- Optimization Challenges
- Application Upgrade Challenges
- Cloud Challenges
- vSphere Features based on License Edition
- vSphere Features based on License Edition (cont'd)
- Review of Module Objectives