VMware vSphere: Skills for Operators [V6]

Course Details

Course Outline

1. **Course Introduction**
    - Introductions and course logistics
    - Course goals and objectives
    - Online vSphere resources
    - Location of online vSphere documentation
2. **VMware Virtualization Overview**
    - Compare the components and concepts of traditional architecture and virtual architecture
    - Identify the benefits of virtual architecture
    - Describe the VMware virtualization infrastructure
    - Describe vSphere products and features
    - Describe inventory objects managed by vSphere
    - Describe the main features of vCenter Server
3. **vSphere Client and vSphere Web Client**
    - Identify the differences between the VMware vSphere Client and VMware vSphere Web Client interfaces
    - Access, navigate, and customize vSphere Web Client
    - Use vSphere Web Client to monitor and manage vSphere objects
    - Perform searches in vSphere Web Client
    - Explain how roles and permissions can be assigned to users and user groups using vSphere Web Client
4. **Creating and Managing Virtual Machines**
    - Create and manage virtual machines
    - Install a guest operating system and VMware Tools
    - Explain how to use clones and templates to manage virtual machines
    - Explain the importance of content libraries
    - Configure virtual machines
    - Manage virtual machines using snapshots
    - Explain how raw device mapping (RDM) allows a virtual machine to directly access and use a storage device

5. **Monitor Virtual Machine Resources**
    - Explain virtual machine resource monitoring concepts
    - Monitor virtual machine resource usage using vCenter Server performance graphs and alarms
    - Describe and monitor tasks
    - Describe, monitor, and manage events
    - Describe, monitor, manage, and acknowledge alarms
6. **Using vSphere vApp(s)**
    - Describe a vApp
    - Create a vApp
    - Add objects to a vApp
    - Edit vApp settings
    - Clone a vApp
    - Manage power operations for a vApp
7. **Migrating Virtual Machines**
    - Describe the types of vSphere migration
    - Explain the importance of vSphere vMotion
    - Identify and verify vSphere vMotion requirements
    - Perform a vSphere Storage vMotion migration
    - Perform a shared-nothing vSphere vMotion migration
    - Explain how to migrate virtual machines across virtual switches, vCenter Server systems, and long distances
8. **Using vSphere for Scalability and Business Continuity**
    - Explain how vSphere DRS can be used to optimize the performance of the hosts and virtual machines in a cluster
    - Explain how vSphere HA can be used to increase the availability of your virtual machines
    - Explain how vSphere Fault Tolerance can be used for continuous availability of a virtual machine
    - Explain how vSphere Data Protection and vSphere Replication can be used to replicate backup and restore data in your virtual environment.