vmware®

VMware VSphere: Design And Deploy Fast Track V6

Course Details

Course Outline

1. **Course Introduction**
   - Introductions and course logistics
   - Course objectives

2. **Assessment**
   - Define customer business objectives
   - Gather and analyze business and application requirements
   - Document design requirements, constraints, assumptions, and risks
   - Use a systematic method to evaluate and document design decisions
   - Create a conceptual design

3. **Core Management Infrastructure**
   - Determine the number of vCenter Server instances to include in a design
   - Choose appropriate platforms for vCenter Server components and databases
   - Design a vCenter Server deployment topology that is appropriate for the size and requirements of the data center
   - Deploy core management components for the given vSphere design

4. **Virtual Data Center Infrastructure**
   - Calculate total capacity requirements for a design
   - Create a virtual data center cluster design that meets business and workload requirements
   - Evaluate the use of various management services, such as VMware vSphere High Availability and VMware vSphere Distributed Resource Scheduler, in the virtual data center design
   - Deploy virtual data center components for the given vSphere design

5. **Compute Infrastructure**
   - Create a compute infrastructure design that includes the appropriate ESXi boot, installation, and configuration options
   - Choose the ESXi host hardware for the compute infrastructure
   - Deploy and configure ESXi hosts for the given vSphere design
   - Perform a scripted installation of an ESXi host

6. **Storage Infrastructure**

- Calculate storage capacity requirements for a design
- Create a storage infrastructure design that includes the appropriate storage platform and storage management solutions
- Deploy components of the storage architecture for the given vSphere design

7. **Network Infrastructure**

- Create a network component design that includes virtual switch specifications, port group configuration settings, and physical network attributes
- Evaluate network management and monitoring design options
- Deploy components of the network architecture for the given vSphere design

8. **Virtual Machine Infrastructure**

- Create a virtual machine design that considers application requirements and maximizes performance
- Deploy virtual machines for the given vSphere design

9. **Infrastructure Security**

- Evaluate security options for ESXi hosts, vCenter Server, storage, networking, and virtual machines
- Create a security design based on VMware best practices
- Deploy security components for the given vSphere design

10. **Infrastructure Management**

- Evaluate management tools and solutions
- Create a design that includes the management of ESXi hosts, templates, virtual machine snapshots, and events
- Create a design for the VMware vSphere® Update Manager™ architecture
- Deploy management components for the given vSphere design

11. **Infrastructure Recoverability**

- Evaluate ways to provide recoverability in a vSphere environment
- Create a design that includes the recoverability of ESXi hosts, vCenter Server, networks, and virtual machines
- Deploy components that enable the recoverability of the vSphere environment in the given vSphere design