VMware vCenter Site Recovery Manager: Install, Configure, Manage (6.1)

Course Details

Course Outline

1. **Course Introduction**
   - Outline the necessary information to effectively undertake this course
   - Identify resources for additional information
   - Outline an overview of Site Recovery Manager

2. **Overview and Architecture**
   - Examine disaster recovery options with Site Recovery Manager
   - Describe Site Recovery Manager integration with VMware vSphere® Web Client
   - Discuss Site Recovery Manager features
   - Analyze Site Recovery Manager storage policies and integration options
   - Discuss how Site Recovery Manager supports several disaster recovery topologies
   - Identify use cases for Site Recovery Manager across various scenarios
   - Compare disaster recovery with VMware vCloud Air and Site Recovery Manager

3. **Installing Site Recovery Manager**
   - Identify the necessary components to deploy and use Site Recovery Manager
   - Describe prerequisites for installing a Site Recovery Manager server and the associated database
   - Describe prerequisites for the Site Recovery Manager database
   - Discuss requirements for VMware ESXi™ hosts and virtual machines with which Site Recovery Manager operates
   - Install the Site Recovery Manager software
   - Describe the Site Recovery Manager site-pairing process
   - Define the credentials required for Site Recovery Manager site pairing

4. **Configuring Inventory Mappings**
   - Outline the importance of inventory mappings
   - Examine configuration options for inventory mappings
   - Outline the importance of placeholders

5. **Storage Replication**

- Describe array-based replication
- Describe vSphere Replication
- Compare Site Recovery Manager storage replication options

6. **Deploying Replication**

- Describe storage replication adapters
- Describe the process for adding an array manager in Site Recovery Manager
- Explore vSphere Replication architecture
- Examine vSphere Replication functionality
- Formulate use cases for vSphere Replication
- Deploy a vSphere Replication appliance
- Configure vSphere Replication appliance settings
- Configure a vSphere Replication appliance connection
- Deploy a vSphere Replication server
- Register a vSphere Replication server

7. **Configuring vSphere Replication**

- Configure vSphere Replication for virtual machines
- Explain the importance of datastore mappings
- Describe vSphere Replication recovery point objective scheduling
- Describe the vSphere Replication disk transfer protocol

8. **Building Protection Groups**

- Define protection group functionality
- Examine the differences between array-based protection group, protection groups based on vSphere Replication, and storage profile protection groups
- Create a protection group
- Discuss protection group settings
- Remove protection from a virtual machine
- Create a storage profile protection group

9. **Building Recovery Plans**

- Discuss recovery plan concepts
- List recovery plan steps
- Discuss network planning
- Discuss customization options in recovery planning

- Recognize Site Recovery Manager alarm options

- Outline how to implement a recovery plan

- Investigate recovery plan options

- Describe the customization of recovery plans

10. Testing and Running a Recovery Plan

- Discuss use cases for Site Recovery Manager

- Describe planned migration

- Identify Site Recovery Manager workflows

- Discuss the importance of VMware vSphere® VMFS resignaturing

- Examine Site Recovery Manager integration with various vSphere technologies

- Outline how to conduct a recovery plan test

- Perform recovery plan test execution

- Identify the effects on the storage layer during recovery steps

- Review recovery plan reports

- Explain a recovery plan execution in planned migration or disaster recovery mode

- Understand storage layer changes for plan execution types

- Identify the recovery steps for each execution type

- Describe how to reprotect a data center

- Examine failback steps