VMware vRealize Automation: Install, Configure, Manage [V7.3]

Course Details

Course Outline

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

2. **vRealize Automation Overview and Architecture**
   - Describe the software-defined data center
   - Explain the purpose of vRealize Automation
   - Explain the concepts of vRealize Automation administration and self-service provisioning
   - Describe where vRealize Automation fits in the VMware product line
   - Discuss use cases for vRealize Automation
   - Identify the components of a vRealize Automation simple deployment
   - Identify the components of a vRealize Automation enterprise deployment
   - Identify the component design options for vRealize Automation
   - Identify how vRealize Automation integrates with other VMware products

3. **Authentication, Fabric, and Tenants**
   - Describe identity management in vRealize Automation
   - Identify the authentication methods available in vRealize Automation
   - Identify the appropriate roles for specific tasks in vRealize Automation
   - Create tenants
   - Explain multitenant leading practices
   - Define relationships between vRealize Automation entities
   - Identify and configure vRealize Automation endpoints
   - Identify how vRealize Automation discovers compute resources
   - Identify fabric groups, business groups, and reservations
   - Create and manage reservations for compute resources

4. **Converged Blueprints, Containers, and Catalog Management**

    *   Define blueprints

    *   Identify the process and options for configuring blueprints

    *   Create a blueprint with a single virtual machine

    *   Create a blueprint with multiple virtual machines

    *   Use parameters in blueprints

    *   Describe containers

    *   Identify the role of the service catalog

    *   Define catalog items

    *   Use entitlements to manage catalog items

5. **Consuming Catalog Services**

    *   Request a single-machine service

    *   Monitor the service provisioning status

    *   Reconfigure a provisioned machine

    *   Manage snapshots

    *   Identify roles involved in creating approval policies

    *   Identify approval policy level

    *   Identify approval phases

    *   Create and apply approval policies for catalog items

    *   Use custom properties to modify the provisioning process

    *   Use property groups to group sets of custom properties

    *   Use the property dictionary to modify the provisioning process

6. **Integrating NSX**

    *   Identify NSX capabilities

    *   Describe the NSX components that vRealize Automation uses

    *   Describe the benefits of NSX integration with vRealize Automation

    *   Integrate vRealize Automation with NSX

    *   Use NSX elements in vRealize Automation blueprints

7. **Application Authoring**

    *   Detail the lifecycle of a vRealize Automation application deployment

    *   Author an application blueprint

    *   Deploy an application blueprint from the service catalog

8. **Monitoring and Reclamation**

   - Identify how to monitor resource use
   - Demonstrate how to reclaim resources
   - Demonstrate how to manage machine leases
   - Monitor system events

9. **vRealize Automation Extensibility**

   - Identify the vRealize Automation extensibility tools
   - Identify the vRealize Automation extensibility use cases
   - Use vRealize CloudClient to export a blueprint
   - Use vRealize Orchestrator
   - Use vRealize Orchestrator plug-ins for external integration
   - Describe anything-as-a-service (XaaS) components
   - Create an XaaS blueprint
   - Describe how the event broker service enhances extensibility
   - Identify the appropriate subscription types and options for a subscription
   - Describe the two event broker event types
   - Identify the three event broker phases
   - Illustrate the master workflow
   - Describe the necessary requirements for passing custom properties to workflows
   - Explain how the event broker helps with day 2 operations
   - Use scale-in and scale-out to size virtual appliances
   - Integrate VMware vSphere® virtual machine storage policies into blueprints

10. **vRealize Automation Installation**

   - Explain the vRealize Automation installation prerequisites
   - Describe the vRealize Automation installation procedure
   - Perform a vRealize Automation appliance deployment
   - Configure the vRealize Automation appliance