VMware vRealize Automation: Install, Configure, Manage [V6.2]

I. Overview:

This training course focuses on installing, configuring, and managing VMware vRealize™ Automation. This course covers the configuration and use of the vRealize Automation platform, including self-service provisioning and the creation of multivendor cloud services. This class also helps students understand and achieve the benefits of automation as a component of the software-defined data center.

II. Duration: 05 days

III. Objectives:

- Describe the vRealize Automation architecture and use case in today's multivendor cloud environments
- Install and configure vRealize Automation 6.2
- Deploy Distributed Execution Managers and agents for vRealize Automation connectivity
- Configure endpoints to support compute fabric connectivity
- Manage vRealize Automation 6.2 entities on VMware hardware, third-party hardware, and cloud infrastructures
- Configure vRealize Automation infrastructure services
- Configure and manage tenants and blueprints
- Configure and manage a service catalog
- Configure and manage role-based access control
- Request and manage machines through the user portal
- Analyze and configure vRealize Automation workflows
- Integrate VMware vRealize™ Orchestrator™ with vRealize Automation
- Automate application provisioning with VMware vRealize™ Application Services
- Manage and monitor machines and resource reclamation
- Manage cost reporting with VMware vRealize™ Business™

IV. Intended Audience:

- Experienced system administrators, cloud administrators, system integrators, and operational developers

V. Prerequisites:

- VMware vSphere: Install, Configure, Manage [V5.x] or equivalent knowledge

VI. Course outlines:

1. Course Introduction

- Introductions and course logistics
- Course outline
- Course goals
- Course objectives

2. Architecture and Components

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- Identify the components of a vRealize Automation deployment that is used to manage a multivendor hybrid cloud
- Identify the component design options for vRealize Automation
- Explain the concepts of vRealize Automation administration and self-service provisioning
- Identify how vRealize Automation integrates with other VMware products
- Explain the concept of multitenancy
- Identify the abstraction layers of the vRealize Automation cloud
- Identify the administrator roles used by vRealize Automation

3. Installation

- Explain the vRealize Automation installation prerequisites
- Identify the vRealize Automation appliances and component installers
- Define the vRealize Automation installation procedure

4. Configuring IaaS

- Define relationships between vRealize Automation entities
- Identify and configure vRealize Automation endpoints
- Identity how vRealize Automation discovers compute resources
- Define vRealize Automation roles
- Identify fabric groups, business groups, and reservations
- Create tenants
- Create and manage reservations for compute resources

5. Blueprints and Catalog Services

- Create and manage single-machine and multimachine blueprints
- Manage service catalog items with entitlements and approval policies

6. Provisioning Services

- Provision new machines and services
- Manage self-provisioned machines
- Create approval policies
- Identify approval policy levels and approval phases
- Use custom properties
- Use build profiles
- Use the property dictionary

7. Extensibility

- Identify extensibility and customization options
- Use vRealize Orchestrator
- Configure plug-ins for external integration
- Use the Advanced Service Designer
- Create custom forms and services

8. Monitoring and Reclamation

- Identify and verify inactive and abandoned resources
- Manage machine leases
- Manage machine reclamation

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9. *Operational Management*

- Configure vRealize Business
- Report financial data for a cloud infrastructure
- Troubleshoot common vRealize Business problems

10. *Managing Applications*

- Define the role of vRealize Application Services
- Identify vRealize Application Services infrastructure components and requirements
- Deploy and manage vRealize Application Services
- Configure application provisioning
- Create, manage, and update applications
- Manage catalog services