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VMware vCloud Automation Center: Install, Configure, Manage [V6.0]

I. Overview:

This training course focuses on installing, configuring, and managing VMware vCloud® Automation Center™. This course covers the configuration and use of the vCloud Automation Center platform, including self-service provisioning and the creation of multivendor cloud services.

II. Duration: 05 days

III. Objectives:

- Understand the vCloud Automation Center architecture and use case in today's multivendor cloud environments

- Install and configure vCloud Automation Center 6.0

- Deploy Distributed Execution Managers and agents for vCloud Automation Center connectivity

- Configure endpoints to support compute fabric connectivity

- Manage vCloud Automation Center 6.0 entities on VMware® hardware, third-party hardware, and cloud infrastructures

- Configure vCloud Automation Center 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 using the user portal

- Understand and configure vCloud Automation Center workflows

- Integrate VMware® vCenter™ Orchestrator™ with vCloud Automation Center

- Automate application provisioning with VMware vCloud® Application Director™

- Manage and monitor machines and resource reclamation

- Manage cost reporting with VMware® IT Business Management Suite™

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

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- Course goals

- Course objectives

2. Architecture and Components

- Identify the benefits of the software-defined data center

- Explore the architecture for deploying vCloud Automation Center as a cloud management platform for a multivendor hybrid cloud

- Identify the components of vCloud Automation Center

- Identify vCloud Automation Center design options

- Define network ports and protocols required for communication between vCloud Automation Center components

- Define the user interface elements of vCloud Automation Center

- Explain how vCloud Automation Center integrates with other VMware products

3. Installation

- Explain the vCloud Automation Center installation prerequisites

- Identify the vCloud Automation Center appliances and component installers

- Define the vCloud Automation Center installation procedure

4. Configuring IaaS

- Define relationships between vCloud Automation Center entities

- Identify and configure vCloud Automation Center endpoints

- Identity how vCloud Automation Center discovers compute resources

- Define the vCloud Automation Center 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

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7. *Extensibilit*

- Identify extensibility and customization options

- Use vCloud Automation Designer to edit an existing workflow

- Use vCenter Orchestrator

- Configure plug-ins for external integration

- Use Advanced Service Designer

8. *Monitoring and Reclamation*

- Identify and verify inactive and abandoned resources

- Manage machine leases

- Manage machine reclamation

9. *Operational Management*

- Configure VMware® IT Business Management Suite™ Standard Edition

- Report financial data for a cloud infrastructure

- Troubleshoot common ITBM problems

10. *Managing Applications*

- Define the role of vCloud Application Director

- Identify the vCloud Application Director infrastructure components and requirements

- Deploy and manage vCloud Application Director

- Configure application provisioning

- Create, manage, and update applications

- Manage catalog services