VMware Cloud Foundation: Automate and Operate [V9.0]

Course code: VMW_VCFAOP

This five-day course provides you with the knowledge, skills, and abilities to achieve competence in automating and operating a VCF private cloud using VMware Cloud Foundation Automation and VMware Cloud Foundation Operations. You will learn about the architecture of VCF Automation, provider and organization management, provider and organization networking, and content library management. The course covers blueprints, catalogs, Supervisor management, and deploying workloads using the Catalog and IaaS portals.You will learn about VCF Operations overview, architecture, and navigating the user interface. You will explore customizing alerts, views, reports, dashboards, and policies. This course also explains VCF logs, storage, and network operations, health and diagnostics, service discovery, and application monitoring concepts.

Who is the course for

System architects and system administrators

What we teach you

- Configure and manage content libraries at the provider and organization levels
- Manage access control in the organization using users and groups
- Create and manage infrastructure blueprints and catalogs
- Describe the use of the embedded orchestrator to create workflows
- Deploy VM workloads using catalog deployment and Kubernetes-based IaaS deployments
- List the key features of VCF Operations
- Outline VCF Operations use cases
- Create custom views and reports
- Describe the functions of dashboards
- Create custom dashboards
- Create custom symptoms and alert definitions
- Outline the role of VCF Health and Diagnostics
- Explain Troubleshooting Workbench
- Describe the VMware Cloud Foundation Operations for logs overview
- Identify performance and health issues with the Storage clusters using Storage Operations
- Identify performance and health issues with the VCF Network objects
- Create policies to meet the operational needs of your environment
- Configure service discovery and application monitoring

Required skills

Before taking this course, students should take:

- VMware vSphere: Install, Configure, Manage
- VMware NSX: Install, Configure, Manage

Course outline

1. VCF Automation Overview and Architecture

- Describe the features, benefits, and purposes of VCF Automation
- Explain the architecture of VCF Automation

2. Provider Infrastructure Management

- Describe the provider management and provider consumption portals
- List the supported options for provider administrator from the provider portal
- Explain managing tasks and events from the provider portal
- Describe the features of the provider consumption organization
- Describe how to discover infrastructure resources
- Explain how to manage IP spaces and provider gateways

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3. Provider Identity Management
   - Explain how to enable VCF SSO for the Automation appliance
   - Discuss configuring VMware Cloud Foundation® Identity Broker as the identity provider
   - List the supported IdP (ODIC, SAML, LDAP)
   - Discuss how to register a provider-scoped identity provider
   - Explain managing VCF Automation roles and rights
   - Discuss managing VCF Automation users and groups
   - Discuss provider-scoped service accounts
4. Regions
   - Explain the basics of a Region
   - Identify the utilization of the Region
   - Discuss prerequisites and available options for creating a Region
5. Organizations
   - Describe the different Organizations offered in VCF Automation
   - Identify the use cases for manual setup and multitenancy
   - Identify use cases for Quick Setup
   - Create a VCF Automation VM Apps Organization
   - Create a VCF Automation All Apps Organization

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