

VMware Cloud Foundation: Automate and Operate

Duration: 5 Day(s)

Course Overview

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.

Objectives

- Describe VCF Automation components and supporting architecture
- Perform infrastructure management as a cloud provider
- Configure networking at the cloud provider and organization levels
- Manage access control in the organization using users and groups

Who Should Attend

- System architects
- System administrators

Prerequisites

Before taking this course, students should take the following courses: VMware vSphere: Install, Configure, Manage VMware NSX: Install, Configure, Manage

Course Outline

VCF Automation Overview and Architecture

1. Describe the features, benefits, and purposes of VCF Automation
2. Explain the architecture of VCF Automation

Provider Infrastructure Management

3. Describe the provider management and provider consumption portals
4. List the supported options for provider administrator from the provider portal
5. Explain managing tasks and events from the provider portal

Provider Identity Management

6. Explain how to enable VCF SSO for the Automation appliance

7. Discuss configuring VMware Cloud Foundation® Identity Broker as the identity provider
8. List the supported IdP (ODIC, SAML, LDAP)

Regions

9. Explain the basics of a Region
10. Identify the utilization of the Region

Organizations

11. Describe the different Organizations offered in VCF Automation
12. Identify the use cases for manual setup and multitenancy

Provider Networking

13. Discuss prerequisites for creating the provider network
14. Discuss the workflow for configuring the provider network

Organization Networking with VPC

15. Discuss Organization Networking
16. Discuss the architecture of the VPC

Provider Content Library

17. Describe the Provider Content Library creation workflow
18. Explain publishing and subscribing to a Content Library

Organization Management

19. Identify the key components of an All Apps Organization
20. Explain namespace classes

Organization Content Management

21. Identify and manage the different content available in Content Hub
22. Differentiate between catalog self-service versus IaaS self-service

IaaS Platform Architecture and Deployment

23. Explain Supervisor architecture
24. Discuss Supervisor requirements

Deploying Modern Apps with IaaS

25. Discuss self-service consumption with IaaS services in VCF 9

26. Discuss the features of the IaaS console

VCF Operations Overview

27. List the key features of VCF Operations

28. Outline VCF Operations use cases

VCF Metrics, Views, and Reports

29. Outline the role of metrics in VCF Operations

30. Outline the role of views in VCF Operations

VCF Dashboards

31. Describe the functions of dashboards

32. Create dashboards that use predefined and custom widgets

VCF Symptoms and Alerts

33. Describe the purpose of using alerts

34. Identify the components of an alert definition

VCF Health and Diagnostics

35. Outline the role of VCF Health and Diagnostics

36. Describe the VCF Health and Diagnostic Findings features

VCF Logs, Storage, and Network Operations

37. Describe the VCF Operations for logs overview

38. Describe the key benefits of the VCF Operations for logs

VCF Operations Policies

39. Describe the purposes of policies in VCF Operations

40. Configure policies and other components

VCF Centralized Monitoring

41. Describe the infrastructure services monitoring capabilities

42. Describe the application monitoring capabilities