

# VMware Cloud Foundation: Automate and Operate

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*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