VMware Cloud Foundation: Automate and Operate

Category: Infrastructure & IT Operations | **Vendor:** VMware

Duration: 40.00 hours (5 days) **32.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

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.

About This Course

- VCF Automation Overview and Architecture
- Provider Infrastructure Management
- Provider Identity Management
- Regions
- Organizations
- Provider Networking
- Organization Networking with VPC
- Provider Content Library
- Organization Management
- Organization Content Management
- IaaS Platform Architecture and Deployment
- Deploying Modern Apps with IaaS
- VCF Operations Overview
- VCF Metrics, Views, and Reports
- VCF Dashboards
- VCF Symptoms and Alerts
- VCF Health and Diagnostics
- VCF Logs, Storage, and Network Operations
- VCF Operations Policies
- VCF Centralized Monitoring

Who Should Attend

System architects and system administrators

Prerequisites & Entry Requirements

General Prerequisites:

Before taking this course, students should take the following courses:

- VMware vSphere: Install, Configure, Manage [V8] (VSICM8)
- VMware NSX: Install, Configure, Manage [V4.0] (NSXICM4)

Learning Outcomes

Upon successful completion of this course, participants will be able to:

By the end of the course, you should be able to meet the following objectives:

- Describe VCF Automation components and supporting architecture
- Perform infrastructure management as a cloud provider
- Deploy Regions and Organizations as the cloud provider
- Configure networking at the cloud provider and organization levels
- 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

Detailed Course Outline

VCF Automation Overview and Architecture

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

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

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

Regions

- Explain the basics of a Region
- Identify the utilization of the Region
- Discuss prerequisites and available options for creating a Region

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

Provider Networking

- Discuss prerequisites for creating the provider network
- Discuss the workflow for configuring the provider network
- Describe IP Spaces
- Discuss Edge nodes, Edge clusters, and the network services it offers
- Configure IP Spaces and verify the configuration
- Configure the Provider Gateway and verify the status
- Synchronize Edge clusters and verify the status
- Configure regional networking for an Organization
- Discuss steps to verify the creation of network resources in VMware NSX®, VMware vCenter®, and VCF Automation.
- Discuss the mapping of resources between VCF Automation, NSX, and vCenter

Organization Networking with VPC

- Discuss Organization Networking
- Discuss the architecture of the VPC
- Discuss access modes and subnet types in VPC
- Describe the scope of different subnet types in VPC
- Discuss Outbound Routing and Network Address Translations in VPC
- Configure VPC with a default, custom connectivity profile and verify its status
- Configure Private-TGW IP Block, associate it with a VPC, and verify its status

Provider Content Library

- Describe the Provider Content Library creation workflow
- Explain publishing and subscribing to a Content Library

Organization Management

- Identify the key components of an All Apps Organization
- Explain namespace classes
- Explain creating and managing Projects
- Discuss Chargeback for Organizations
- Integrate identity providers into Organizations
- Manage users and groups in an Organization
- Create and manage deployment-centric policies
- Create and manage Supervisor resource-centric policies

Organization Content Management

- Identify and manage the different content available in Content Hub
- Differentiate between catalog self-service versus IaaS self-service
- Publish content to Catalog for end-user consumption
- Deploy and modify Catalog items
- Configure and use custom forms
- Explain the role of YAML in configuring and managing infrastructure as code
- Publish Content to Catalog for End User Consumption
- Discuss the use of the embedded orchestrator
- Discuss the use cases of an external orchestrator
- Describe orchestrator workflows

IaaS Platform Architecture and Deployment

- Explain Supervisor architecture
- Discuss Supervisor requirements
- List Supervisor use cases
- Discuss the vSphere administrator workflow
- List the components of the Supervisor

- Discuss the types of Supervisor deployment
- Discuss the requirements of Supervisor deployment
- Describe Supervisor deployment during the VI Workload Domain creation

Deploying Modern Apps with IaaS

- Discuss self-service consumption with IaaS services in VCF 9
- Discuss the features of the IaaS console
- Describe how to get instance information from the console
- Explain the YAML Spec for the VM service
- Discuss VCF CLI commands

VCF Operations Overview

- List the key features of VCF Operations
- Outline VCF Operations use cases
- Navigate the VCF Operations console
- Identify the components of a VCF Operations node
- Describe the different roles of the node in a VCF Operations cluster

VCF Metrics, Views, and Reports

- Outline the role of metrics in VCF Operations
- Outline the role of views in VCF Operations
- List the steps to create a basic custom view and configure view settings
- Outline the roles of reports in VCF Operations
- List the steps to create a basic report and configure report settings

VCF Dashboards

- Describe the functions of dashboards
- Create dashboards that use predefined and custom widgets

- Manage dashboards by grouping and sharing with users
- Explain the use cases of predefined dashboards and custom dashboards
- List VCF Operations use cases

VCF Symptoms and Alerts

- Describe the purpose of using alerts
- Identify the components of an alert definition
- Create symptom definitions
- View and manage triggered alerts in the VCF Operations console
- Configure a custom alert using the Create Alert Definition workflow

VCF Health and Diagnostics

- Outline the role of VCF Health and Diagnostics
- Describe the VCF Health and Diagnostic Findings features
- Monitor the operational state of VCF instances
- Explain Troubleshooting Workbench
- Enable support teams with full context using Log Assist

VCF Logs, Storage, and Network Operations

- Describe the VCF Operations for logs overview
- Describe the key benefits of the VCF Operations for logs
- Describe the capabilities of VCF Operations for logs
- Describe the VCF Storage Operations overview
- Identify performance and health issues with the Storage clusters
- Describe the benchmarking and optimization tool to detect issues for a new cluster
- Describe the VCF Network Operations overview
- Discuss the different widgets available in VCF Network Operations
- Identify the performance and health issues with the VCF Network object

VCF Operations Policies

- Describe the purposes of policies in VCF Operations

- Configure policies and other components

VCF Centralized Monitoring

- Describe the infrastructure services monitoring capabilities

- Describe the application monitoring capabilities

- Describe the different types of application metrics

- Outline the requirements to enable service discovery and application monitoring

- Describe the different types of service metrics

- Use collected metrics to interpret the status of services

Skills You Will Learn:

By the end of the course, you should be able to meet the following objectives:

- Describe VCF Automation components and supporting architecture
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Frequently Asked Questions

Q: What delivery options are available for VMware Cloud Foundation: Automate and Operate?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 5-day VMware Cloud Foundation: Automate and Operate course provides up to 32.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the VMware Cloud Foundation: Automate and Operate training?

The training takes place over 5 day(s), with each day lasting approximately 40.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for VMware Cloud Foundation: Automate and Operate?

Yes, we provide corporate training, dedicated training, and closed classes for VMware Cloud Foundation: Automate and Operate. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: VMware Cloud Foundation: Automate and Operate, VMware VCF and VMware Cloud Director, VCFAO

Q: Why choose Nexus Human for VMware Cloud Foundation: Automate and Operate?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your VMware Cloud Foundation: Automate and Operate training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

Professional Training & Development

Email: info@nexushuman.com

Website: www.nexushuman.com

Phone: +353 1 889 8700 (Ireland) | +44 20 8142 8961 (UK)

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