Course : VMware Cloud Foundation: Automate and Operate V9 (VCFAO)

Official Course: Preparation for the 2V0-17.25 Exam

Practical course - 5d - 35h00 - Ref. VWO
Price : 4290 € E.T.

NEW

In this course, you will develop the skills needed to automate and operate a VMware Cloud Foundation (VCF) private cloud using VCF Automation and VCF Operations. You will learn about architecture, provider and organization management, networking, and content libraries. The course also covers templates, catalogs, supervisors, and the deployment of workloads via the Catalog and IaaS portals. Finally, you'll explore VCF Operations: alerts, reports, dashboards, policies, logs, storage, networking, and application monitoring.

Teaching objectives

At the end of the training, the participant will be able to:

- Describe the architecture and components of VMware Cloud Foundation Automation
- Managing Infrastructure as a Cloud Provider: Regions, Organizations, and Resources
- Configure the network and content libraries at the provider and organization levels
- Manage access within organizations (users, groups, access control)
- Create and manage plans, catalogs, and workflows using the built-in orchestrator
- Deploy workloads (VMs) via the Catalog and Kubernetes IaaS deployments
- Leveraging VCF Operations: Dashboards, Alerts, Reports, Policies, Logs, Storage, Network, and Applications

Intended audience

System architects and system administrators.

Prerequisites

Must have completed the courses Ref. AMW or Ref. VMZ, or possess equivalent knowledge. Good understanding of written English.

PARTICIPANTS

System architects and system administrators.

PREREQUISITES

Must have completed the courses Ref. AMW or Ref. VMZ, or possess equivalent knowledge. Good understanding of written English.

TRAINER QUALIFICATIONS

The experts who lead the training courses are specialists in the subjects covered. They are approved by the publisher and certified for the course. They have also been validated by our teaching teams in terms of both professional knowledge and teaching skills for each course they teach. They have at least three to ten years of experience in their field and hold or have held positions of responsibility in companies.

ASSESSMENT TERMS

Assessment of targeted skills prior to training.
Assessment by the participant, at the end of the training course, of the skills acquired during the training course.
Validation by the trainer of the participant's learning outcomes, specifying the tools used: multiple-choice questions, role-playing exercises, etc.
At the end of each training course, ITTCERT provides participants with a course evaluation questionnaire, which is then analysed by our teaching teams. Participants also complete an official evaluation of the publisher.
An attendance sheet for each half-day of attendance is provided at the end of the training course, along with a certificate of completion if the participant has attended the entire session.

Practical details

Teaching methods

The training session will be conducted in French. Official course materials are available in English and in digital format.

Course schedule

1 Overview and Architecture of VCF Automation

- Describe the features, benefits, and objectives of VCF automation.
- Explain the architecture of VCF Automation.

2 Infrastructure Management

- Describe the suppliers' management and consumption portals.
- List the options supported for the provider administrator from the provider portal.
- Explain how to manage tasks and events through the supplier portal.
- Describe the characteristics of the supplier's consumer organization.
- Describe how to discover infrastructure resources.
- Explain how to manage IP address ranges and provider gateways.

3 Identity Management

- Explain how to enable VCF single sign-on for the automation appliance.
- Discuss the configuration of VMware Cloud Foundation® Identity Broker as an identity provider.
- List the supported identity providers (ODIC, SAML, LDAP).
- Discuss how to register a limited-scope identity provider.
- Explain how roles and permissions are managed in VCF automation.
- Discuss user and group management in VCF Automation.
- Discuss the service accounts available to the provider.

4 Regions

- Explain the basics of a region.
- Identify the region's use.
- Discuss the prerequisites and available options for creating a region.

5 Organizations

- Describe the different organizational structures available in VCF Automation.
- Identify use cases for manual configuration and multi-tenancy.
- Identify use cases for quick setup.
- Create a VCF automation VM application organization.
- Create a VCF Automation organization for all applications.

TEACHING AIDS AND TECHNICAL RESOURCES

The teaching resources used are the publisher's official materials and practical exercises.

TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training course.

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you have specific accessibility requirements? Contact Ms FOSSE, disability advisor, at the following address: psh-accueil@orsys.fr so that we can assess your request and its feasibility.

6 Network

- Discuss the prerequisites for establishing the supplier network.
- Describe the process for configuring the provider's network.
- Describe IP address spaces.
- Discuss Edge nodes, Edge clusters, and the network services they provide.
- Configure the IP address ranges and verify the configuration.
- Configure the provider's gateway and check its status.
- Synchronize the Edge clusters and check their status.
- Configure the regional network for an organization.
- Describe the steps to verify the creation of network resources in VMware NSX, vCenter, and VCF Automation.
- Describe the resource mapping between VCF Automation, NSX, and vCenter.

7 Connecting the organization to a mail-order company

- Discuss organizational networking.
- Discuss the architecture of the VPC.
- Describe the scope of the different types of subnets in a VPC.
- Discuss outbound routing and network address translation in a VPC.
- Configure the VPC with a default and custom connectivity profile, then check its status.
- Configure the Private-TGW IP address block, associate it with a VPC, and check its status.

8 Content Library

- Describe the workflow for creating the vendor's content library.
- Explain how to publish and subscribe to a content library.

9 Organizational Management

- Identify the key components of an All Apps organization.
- Explain namespace classes.
- Explain how to create and manage projects.
- Discuss retroactive billing for organizations.
- Integrating identity providers into organizations.
- Manage users and groups within an organization.
- Create and manage deployment-focused policies.
- Create and manage policies focused on the supervisor's resources.

10 Organizational Content Management

- Identify and manage the various types of content available in the Content Center.
- Distinguish between self-service catalog and self-service IaaS.
- Publish the content in the catalog for end-user access.
- Deploy and modify catalog items.
- Set up and use custom forms.
- Explain the role of YAML in configuring and managing infrastructure as code.
- Publish content in the catalog for end-users to access.
- Discuss the use of the built-in orchestrator.
- Discuss use cases for an external orchestrator.
- Describe the orchestrator's workflows.

11 IaaS Platform Architecture and Deployment

- Explain the architecture of the supervisor.
- Discuss the supervisor's requirements.
- Use Cases for List Supervisor.
- Describe the vSphere administrator's workflow.
- List the components of the supervisor.
- Discuss the different types of supervisor deployment.
- Discuss the requirements for deploying supervisors.
- Describe the deployment of the supervisor when creating the VI workload domain.

12 Deploying Modern Applications with IaaS

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

13 Overview of VCF Operations

- List the main characteristics of VCF operations.
- Overview of Use Cases for VCF Operations.
- Navigate through the VCF Operations console.
- Identify the components of a VCF operation node.
- Describe the different roles of a node in a VCF Operations cluster.

14 VCF Metrics, Views, and Reports

- Describe the role of indicators in VCF operations.
- Describe the role of viewpoints in VCF operations.
- List the steps for creating a basic custom view and configuring the view settings.
- Describe the role of reports in VCF operations.
- List the steps to follow to create a basic report and configure the report settings.

15 VCF Dashboards

- Describe the functions of dashboards.
- Create dashboards using predefined and custom widgets.
- Manage dashboards by grouping them and sharing them with users.
- Explain the use cases for predefined dashboards and custom dashboards.
- List use cases for VCF operations.

16 Symptoms and Warning Signs of VCF

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

17 Health and Diagnostics

- Describe the role of VCF Health and Diagnostics.
- Describe the features of VCF Health and Diagnostic Findings.
- Monitor the operational status of VCF instances.
- Explain the troubleshooting workshop.
- Provide support teams with a complete context using Log Assist.

18 VCF Logs, Storage, and Network Operations

- Present VCF operations to the newspapers.
- Describe the main benefits of VCF operations for newspapers.
- Describe the features of VCF Operations for logs.
- Describe VCF storage operations.
- Identify performance and health issues in storage clusters.
- Describe the benchmarking and optimization tool used to identify problems in a new cluster.
- Present VCF network operations.
- Describe the various widgets available in VCF Network Operations.
- Identify performance and health issues with VCF network objects.

19 VCF's Operational Policies

- Describe the policy objectives in VCF operations.
- Configure policies and other components.

20 VCF Centralized Monitoring

- Describe the monitoring capabilities of infrastructure services.
- Describe the application monitoring features.
- Describe the different types of application metrics.
- Describe the requirements for service discovery and application monitoring.
- Describe the different types of service metrics.
- Use the collected metrics to assess the status of the services.

Options

Certification : 360 € H.T.

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Dates and locations

REMOTE CLASS
2026 : 7 Dec.

2027 : 15 Mar., 21 June, 13 Sep., 6 Dec.

PARIS LA DÉFENSE
2026 : 7 Dec.

2027 : 15 Mar., 21 June, 13 Sep., 6 Dec.