

Course : VMware Cloud Foundation: Build, Manage, and Secure V9 (VCFBMS)

Official Course: Preparation for the 2V0-17.25 Exam

Practical course - 5d - 35h00 - Ref. VCF

Price : 4100 € E.T.

NEW

In this course, you will develop the knowledge, skills, and abilities needed to deploy, administer, operate, and secure a private cloud based on VMware Cloud Foundation (VCF). You'll explore the VCF architecture, as well as storage and network management, while incorporating aspects related to licensing and certificates. The course also covers workload domain management, high availability, the platform lifecycle, and key upgrade scenarios.

Teaching objectives

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

- ✓ Understanding the Key Concepts of VMware Cloud Foundation and Its Architecture
- ✓ Implement the deployment of a VCF private cloud and its key components
- ✓ Configure VCF management services (Operations, Logs, Networks, Identity)
- ✓ Manage platform access: SSO, accounts, groups, certificates, and licenses
- ✓ Create, import, and manage Workload Domains and their associated resources
- ✓ Implement storage in VCF (vSAN and external storage) and ensure monitoring
- ✓ Managing the VCF Lifecycle: Upgrades, Security, Compliance, and Resilience

Intended audience

System administrators, solutions engineers, consultants, architects, and support staff.

PARTICIPANTS

System administrators, solutions engineers, consultants, architects, and support staff.

PREREQUISITES

Completion of the VMware Cloud Foundation Level 1 course. Hands-on experience and knowledge of VMware vSphere, VMware NSX, and vSAN environments. Good written English skills.

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.

Prerequisites

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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 VMware Cloud Foundation (VCF) Private Cloud: Overview and Architecture

- Define VCF and its main characteristics.
- Describe the use cases for VCF.
- Explain the capabilities of the VCF.
- Describe the security features built into every level of VCF.
- Explain VCF's advanced services.
- Explain the architecture of the VCF private cloud.
- Identify the components of the VCF private cloud.
- Distinguish between components at the VCF fleet level and components at the VCF instance level.
- Describe the different roles in the VCF private cloud.

2 Deployment of the VCF Private Cloud

- Identify considerations related to the deployment of the VCF fleet.
- Describe the process of planning and preparing for a VCF deployment.
- Identify the information required for the planning and preparation manual.
- Explain the key steps in deploying a VCF private cloud.
- Describe the deployment process for the VCF private cloud.
- Describe the deployment configuration of the main components of the VCF instance.
- Explain the deployment configuration of VCF fleet management components.
- Use the VCF Installer deployment wizard to deploy a new VCF fleet.
- Use a JSON deployment specification file to deploy a new VCF fleet.
- Describe the different roles in the VCF private cloud.

3 VCF Post-Deployment Tasks

- Navigate the VCF operations user interface.
- Navigate the VMware Cloud Foundation® Automation user interface.
- Navigate through the vSphere client user interface.
- Explain VCF operations for networks, VCF operations for logs, and the VCF identity broker.
- Deploy VCF Operations for Networks, VCF Operations for Logs, and VCF Identity Broker.

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.

4 VCF Fleet Management

- Describe the VCF licensing model.
- Assign and manage VCF licenses.
- Identify the key log files to resolve licensing issues.
- Discuss single sign-on in VCF.
- Describe the single sign-on (SSO) architecture in VCF.
- Discuss the VCF identity broker in VCF.
- Identify the steps for configuring single sign-on in VCF.
- List the directories and identity providers supported in VCF.
- Configure single sign-on (SSO) and enable it for all components of a VCF instance.
- Manage users and user groups in VCF.
- Describe the steps involved in password management.

5 VCF Workload Domain

- Explain VCF domains.
- Describe how workload domains are managed.
- Identify considerations related to the design of lists for workload areas.
- Describe the design requirements for a workload domain.
- Describe the steps for creating a workload domain.
- Describe vCenter groups.
- Configure vCenter-linked groups.
- Import vCenter as a workload domain using VCF operations.

6 VCF Network

- Describe the role of VMware NSX in VCF.
- Describe the default NSX objects created during VCF deployment.
- Discuss networking options for the workload domain.
- Describe network structures in NSX.
- Explain the concepts and structures of a virtual private cloud.
- Distinguish between centralized and distributed network connectivity.
- Configure distributed network connectivity.
- Configure centralized network connectivity.
- Identify the key CLI commands to determine the status of the NSX Edge cluster and BGP peering.
- Create a virtual private cloud.
- Create subnets within a virtual private cloud.

7 VCF Storage Management

- Define the key components of Fibre Channel storage systems.
- Describe the process for configuring Fibre Channel storage.
- Identify the components of an iSCSI storage system.
- Explain how iSCSI addressing works.
- Describe the benefits and considerations when using multipathing with iSCSI storage.
- List the requirements for using NFS as primary and secondary storage.
- Describe the process of provisioning NFS storage on ESX hosts.
- Describe the steps required to deploy a vSAN cluster.
- Identify and use the built-in tools to verify the successful deployment of vSAN.
- Apply a custom storage strategy to a virtual machine or an individual virtual disk.
- Compare the various tools used to monitor a vSAN cluster.
- Explain the types of vSAN reports available in VCF Operations.
- Compare the different maintenance mode options and their impact on the condition of the objects.
- Summarize the steps for powering down a vSAN cluster in a workload domain.

8 VCF Certificate Management

- Describe the public-key infrastructure.
- Explain the purpose of requests for certificate signatures.
- Describe the steps for integrating certificates into VCF.
- List the certificate authority options available in SDDC Manager.
- Integrate VCF operations with the Microsoft Certificate Authority and OpenSSL.
- Manage certificates in VCF.

9 VCF Lifecycle Management

- Discuss life cycle management in the VCF.
- Explain the lifecycle management of VCF fleet management.
- Describe how to configure software repositories.
- Describe how to upgrade and troubleshoot fleet management components.
- Explain the lifecycle management of VCF components.
- Describe how to upgrade and troubleshoot VCF management components.
- Explain the process for backing up and restoring management components at the fleet level.
- Explain the process for backing up and restoring VCF management components.

10 VCF Security

- Defining Security, Compliance, and Resilience in VCF.
- Describe the security features built into all levels of VCF.
- Explain VCF's advanced networking and security features.
- Describe the steps involved in monitoring the security of users and the infrastructure.
- Explain how Compliance Benchmark works.
- Describe the steps for monitoring configuration drift.

11 Upgrade Paths

- Identify the supported upgrade paths to VCF 9.0.
- Explain the key factors to consider during the upgrade.
- Evaluate existing and future compatibility assessments.
- Explain the procedure for upgrading the VCF 9 cluster using an existing vSphere environment.
- Explain the upgrade process to the VCF 9 fleet using existing vSphere and VCF operations.
- Migrate a VCF 5.2 fleet to VCF 9 while preserving and integrating several VMware Aria components.

Options

Certification : 360 € H.T.

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Dates and locations

REMOTE CLASS

2027 : 1 Mar., 7 June, 30 Aug., 22 Nov.

PARIS LA DÉFENSE

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