VMware vSphere with Tanzu: Deploy Configure Manage (VSTDCM8)

Official course, exam preparation 2V0-71.21

Hands-on course of 3 days - 21h
Ref.: MWZ - Price 2026: CHF2 590 (excl. taxes)

With this course, you'll focus on deploying and managing VMware vSphere® with Tanzu. You'll discover how vSphere with Tanzu provides services for deploying and managing virtual machines, vSphere spaces, supervisor services and VMware Tanzu Kubernetes Grid clusters.

EDUCATIONAL OBJECTIVES

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

Describe the integration of vSphere with Tanzu into the VMware Tanzu® portfolio

Describe the concepts and architecture of vSphere with Tanzu

Describing vSphere with Tanzu on VMware NSX®.

Describing vSphere with Tanzu on VMware vSphere® Distributed Switch™

List load balancing solutions supported by vSphere with Tanzu

Describing vSphere with Tanzu storage components

Deploy and manage supervisors

Describing vSphere Pod features and components

Deploy and configure Contour as a monitoring service

Deploy and configure ExternalDNS as a monitoring service

Deploy and configure Harbor as a monitoring service

Deploy and manage Tanzu Kubernetes Grid workload clusters

Deploy and manage virtual machines with the virtual machine service

Deploying applications in a vSphere with Tanzu environment

Backing up with Velero

Use the vSphere user interface and CLI to monitor the integrity of the vSphere with Tanzu environment

Using logs and CLI commands to troubleshoot the vSphere with Tanzu environment

TEACHING METHODS

Training in French. Official course material in digital format and in English. Good understanding of written English.

CERTIFICATION

Successful completion of the 5V0-23.20 exam leads to VMware Certified Specialist - vSphere with Tanzu certification.

PARTICIPANTS

vSphere administrators and platform operators responsible for deploying and managing workloads and services in vSphere with Tanzu.

PREREQUISITES

Expérience du déploiement et de la gestion de vSphere.
Compréhension de Kubernetes et de l'architecture du cluster Kubernetes. Avoir suivi les formations AMW (recommandé).

TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more.
Participants also complete a placement test before and after the course to measure the skills they've developed.

TEACHING AIDS AND TECHNICAL RESOURCES

• The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
• At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
• A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

TERMS AND DEADLINES

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

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@ORSYS.fr to review your request and its feasibility.

THE PROGRAMME

last updated: 11/2025

1) Introduction to containers and Kubernetes

- Differentiate between containers and virtual machines.
- Identify the parts of a container system.
- List the steps in a basic Docker workflow.
- Explain the importance of Kubernetes.
- Identify the basic architecture of Kubernetes.
- Describe a basic Kubernetes workflow.

2) Introduction to vSphere with Tanzu

- Describe vSphere with Tanzu.
- Describe Tanzu Kubernetes Grid.
- Describe VMware Tanzu® Mission Control.
- Describe VMware Tanzu® for Kubernetes Operations.
- Explain the purpose of vSphere with Tanzu.
- Identify the features of vSphere with Tanzu.
- Describe vSphere with Tanzu Supervisor.
- Identify the components of vSphere with Tanzu Supervisor.
- Describe vSphere namespaces.
- Describe supervision services.
- Describe the virtual machine service.
- Describing Tanzu Kubernetes Grid clusters.

3) vSphere with Tanzu infrastructure

- Discuss storage concepts for vSphere with Tanzu.
- Describe storage strategies.
- Describe content libraries.
- Explain the features of the Container Storage Interface plug-in.
- Discuss storage for Tanzu Kubernetes Grid clusters.
- Describe the vSAN Direct database for vSphere with Tanzu.
- Identify the two network stacks available for vSphere with Tanzu deployments.
- List the VDS components supported by vSphere with Tanzu.
- List the NSX components supported by vSphere with Tanzu.
- Overview of load balancing solutions supported by vSphere with Tanzu.

4) vSphere with Tanzu architecture

- Describe the supervisor architecture.
- List the different supervisor deployment options.
- Describe the requirements for deploying a supervisor.
- Describe licensing requirements for supervisors.
- Describe vSphere namespaces.
- List vSphere namespace resources and Kubernetes object boundaries.
- Define content libraries and virtual machine images.
- Explain virtual machine classes.
- Describe the Kubernetes command-line interface tools for vSphere.
- List the different types of authentication available in vSphere with Tanzu.
- Explain vSphere privileges.
- Explain roles and permissions in vSphere namespaces.
- Explain Tanzu Kubernetes Grid RBAC.
- List Tanzu Kubernetes Grid authentication methods.

- List vSphere with Tanzu services and workloads.
- Identify service and workload support based on supervisor deployment types.

5) vSphere with Tanzu workloads and services

- Describe the characteristics of vSphere spaces.
- Identify the features of vSphere Spaces.
- List vSphere components.
- Explain the concept of supervision services.
- Describe the catalog of supervision services and the services available.
- Discuss how to add supervisor services and manage their lifecycle.
- Describe Tanzu Kubernetes Grid clusters.
- List Tanzu Kubernetes Grid components.
- List deployment options for Tanzu Kubernetes Grid workload clusters.
- List the different types of Tanzu Kubernetes Grid workload clusters.
- Describe the requirements for deploying a Tanzu Kubernetes Grid workload cluster.
- Describe the virtual machine service.
- Explain the use cases of the virtual machine service.
- List virtual machine service parameters.
- Describe the requirements for deploying a virtual machine using the virtual machine service.

6) Operations

- Explain how to display Kubernetes namespace events.
- List vSphere Pod, Tanzu Kubernetes Grid cluster and performance monitoring methods.
- List methods for monitoring virtual machine usage.
- Describe how to manage vSphere with Tanzu control plane certificates.
- Understand certificate management in vSphere with Tanzu.
- Describe the prerequisites and steps for updating vSphere wirh Tanzu.
- Describe supervisor updates.
- Describe vSphere namespace updates.
- Describe the process for updating Tanzu Kubernetes Grid clusters.
- List vSphere backup steps with Tanzu components.
- Explain how to save a supervisor.
- Define the Velero plug-in for vSphere and standalone Velero.
- Identify the steps involved in installing Velero on workload clusters.
- Explain how to back up and restore vSphere with Tanzu workloads using the Velero CLI.
- Describe the different vSphere with Tanzu logs.
- Explain how to generate a vSphere with Tanzu support bundle.
- Explain how to use SSH to connect to supervisor control plane nodes.

DATES

Contact us