Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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VMware vSphere with Tanzu: Deploy, Configure, Manage [V8]

CODE:	LENGTH:	PRICE:
VMW_VSTDCM8	24 Hours (3 days)	£2,295.00

Description

During this three-day course, you focus on deploying and managing VMware vSphere® with VMware Tanzu® in a VMware vSphere® 8 environment. You learn how vSphere with Tanzu provides services to deploy and manage virtual machines,vSphere Pods, Supervisor Services, and VMware Tanzu® Kubernetes Grid™ clusters.

You will also gain experience with day 2 operations and life cycle management of a vSphere with Tanzu environment.

Objectives

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

• Describe how vSphere with Tanzu fits in the VMware Tanzu® portfolio
• Describe the vSphere with Tanzu concepts and architecture
• Describe vSphere with Tanzu on VMware NSX®
• Describe vSphere with Tanzu on VMware vSphere® Distributed Switch™
• List the load balancer solutions supported by vSphere with Tanzu
• Describe the vSphere with Tanzu storage components
• Deploy and manage Supervisors
• Describe vSphere Pod capabilities and components
• Deploy and configure Contour as a Supervisor Service
• Deploy and configure ExternalDNS as a Supervisor Service
• Deploy and configure Harbor as a Supervisor Service
• Deploy and manage Tanzu Kubernetes Grid workload clusters
• Deploy and manage virtual machines using the VM Service
• Deploy applications in a vSphere with Tanzu environment
• Perform a backup using Velero
• Use the vSphere UI and CLI to monitor the health of the vSphere with Tanzu environment
• Use logs and CLI commands to troubleshoot the vSphere with Tanzu environment

Audience

vSphere Administrators & Platform Operators who are responsible for deploying and managing workloads and services in vSphere with Tanzu

Prerequisites

• Experience deploying and managing vSphere
• Understanding of Kubernetes and the Kubernetes cluster architecture

Attending one of the following courses is recommended:

• VMware vSphere: Install, Configure, Manage
• Kubernetes Fundamentals and Cluster Operations

Programme

Course Introduction

• Introductions and course logistics
• Course objectives

2 Introduction to Containers and Kubernetes
• Differentiate between containers and virtualmachines
• 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

3 Introducing 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 capabilities of vSphere with Tanzu
• Describe the vSphere with Tanzu Supervisor
• Identify the components of the vSphere with Tanzu Supervisor
• Describe vSphere Namespaces
• Describe the Supervisor Services
• Describe the VM Service
• Describe Tanzu Kubernetes Grid clusters

4 vSphere with Tanzu Infrastructure
• Discuss storage concepts for vSphere with Tanzu
• Describe storage policies
• Describe content libraries
• Explain the Container Storage Interface plug-in functionalities
• Discuss storage for Tanzu Kubernetes Grid clusters
• Describe the vSAN Direct datastore for vSphere with Tanzu
• Identify the two network stacks available for vSphere with Tanzu deployments
• List the VDS components that vSphere with Tanzu supports
• List the NSX components that vSphere with Tanzu supports
• Outline the supported load balancer solutions by vSphere with Tanzu

5 vSphere with Tanzu Architecture
• Describe the Supervisor architecture
• List the different options for deploying the Supervisor
• Outline the requirements for deploying a Supervisor
• Outline the licensing requirements for the Supervisor
• Describe vSphere Namespaces
• List vSphere Namespace resources and Kubernetes object limits
• Define content libraries and VM images
• Explain VM classes
• Describe Kubernetes CLI 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 the Tanzu Kubernetes Grid authentication methods
• List the vSphere with Tanzu services and workloads
• Identify the supportability for vSphere with Tanzu services and workloads based on the Supervisor deployment types

6 vSphere with Tanzu Workloads and Services
• Describe the characteristics of vSphere Pods
• Identify the capabilities of vSphere Pods
• List the components of vSphere Pods
• Explain the concept of Supervisor Services
• Describe the Supervisor Services catalog and its available services
• Discuss how to add Supervisor Services and manage their life cycle
• Describe Tanzu Kubernetes Grid clusters
• List the components of Tanzu Kubernetes Grid
• List the options for deploying Tanzu Kubernetes Grid workload clusters

Further Information

Product Alignment

• VMware vSphere® 8 Update 1
• VMware NSX® Advanced Load Balancer™ 22.1.3
• VMware Tanzu® Kubernetes Grid™ 2.0

Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
07 Dec 2026	Virtual Classroom	GMT	English	Instructor Led Online		£2,295.00

Additional Information

This training is also available as onsite training. Please contact us to find out more.