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

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

**Duration:** 24.00 hours (3 days) **19.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

## Course Information

**Delivery Format:** Instructor Led - Online

## Course Overview

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.

Product Alignment

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

## About This Course

Course Introduction

- Introductions and course logistics
- Course objectives

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

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

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

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

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
- List the different types of Tanzu Kubernetes Grid workload clusters
- Outline the requirements for deploying a Tanzu Kubernetes Grid workload cluster
- Describe the VM Service
- Explain the use cases of the VM Service
- List the VM Service parameters
- Outline the requirements for deploying a VM using the VM Service

Day 2 Operations

- Explain how to view Kubernetes namespace events
- List the ways to monitor vSphere Pod, Tanzu Kubernetes Grid cluster, and VM performance and utilization
- Describe vSphere with Tanzu control plane certificate management
- Describe load balancer certificate management
- Describe the prerequisites and steps for updating vSphere with Tanzu
- Describe the Supervisor updates
- Describe the vSphere Namespace updates
- Describe the update process of Tanzu Kubernetes Grid clusters
- List the steps to back up the vSphere with Tanzu components
- Explain how to back up a Supervisor
- Define Velero Plugin for vSphere and standalone Velero
- Identify the steps to install Velero on workload clusters
- Explain how to back up and restore vSphere with Tanzu workloads with the Velero CLI
- Describe the various 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

## Who Should Attend

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

## Prerequisites & Entry Requirements

**General 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

## 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 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

## Detailed Course Outline

Course Introduction

Introduction to Containers and Kubernetes: containers vs VMs, container system, Docker workflow, Kubernetes architecture and workflow

Introducing vSphere with Tanzu: vSphere with Tanzu and TKG overview, Supervisor, Namespaces, Supervisor Services, VM Service, TKG clusters

vSphere with Tanzu Infrastructure: storage concepts, storage policies, content libraries, CSI plugin, vSAN Direct, VDS and NSX network stacks, load balancer solutions

vSphere with Tanzu Architecture: Supervisor architecture and deployment options, vSphere Namespaces, VM classes, CLI Tools, authentication, RBAC, roles and permissions

vSphere with Tanzu Workloads and Services: vSphere Pods, Supervisor Services (catalog, lifecycle, Contour/ExternalDNS/Harbor), TKG workload clusters, VM Service

Day 2 Operations: monitoring (namespace events, Pod/TKG/VM performance), certificate management, vSphere with Tanzu updates, backup with Velero, logs, support bundle, SSH to control plane nodes

**Skills You Will Learn:**

By the end of the course, you should be able to meet the following objectives:<br><br><br>- Describe how vSphere with Tanzu fits in the VMware Tanzu® portfolio<br>- Describe the vSphere with Tanzu concepts and architecture<br>- Describe vSphere with Tanzu on VMware NSX®<br>- Describe vSphere with Tanzu on VMware vSphere® Distributed Switch™<br>- List the load balancer solutions supported by vSphere with Tanzu<br>- Describe the vSphere with Tanzu storage components<br>- Deploy and manage Supervisors<br>- Describe vSphere Pod capabilities and components<br>- Deploy and configure Contour as a Supervisor Service<br>- Deploy and configure ExternalDNS as a Supervisor Service<br>- Deploy and configure Harbor as a Supervisor Service<br>- Deploy and manage Tanzu Kubernetes Grid workload clusters<br>- Deploy and manage virtual machines using the VM Service<br>- Deploy applications in a vSphere with Tanzu environment<br>- Perform a backup using Velero<br>- Use the vSphere UI and CLI to monitor the health of the vSphere with Tanzu environment<br>- Use logs and CLI commands to troubleshoot the vSphere with Tanzu environment

# Frequently Asked Questions

### Q: What delivery options are available for VMware vSphere with Tanzu: Deploy, Configure, Manage [V8]?

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

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### Q: How many CPD hours does this course provide?

The 3-day VMware vSphere with Tanzu: Deploy, Configure, Manage [V8] course provides up to 19.5 CPD hours of structured learning. CPD certificates can be provided upon request.

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### Q: What is the duration of the VMware vSphere with Tanzu: Deploy, Configure, Manage [V8] training?

The training takes place over 3 day(s), with each day lasting approximately 24.00 hours including breaks for lunch and refreshments.

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### Q: Do you provide corporate training for VMware vSphere with Tanzu: Deploy, Configure, Manage [V8]?

Yes, we provide corporate training, dedicated training, and closed classes for VMware vSphere with Tanzu: Deploy, Configure, Manage [V8]. 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.

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### Q: What related terms do people search for?

Popular related searches include: VMware vSphere with Tanzu: Deploy, Configure, Manage [V8], VMware Kubernetes & Tanzu, VSTDCM8

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### Q: Why choose Nexus Human for VMware vSphere with Tanzu: Deploy, Configure, Manage [V8]?

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

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### Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your VMware vSphere with Tanzu: Deploy, Configure, Manage [V8] training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.


## Nexus Human

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