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:

- Describe how vSphere with Tanzu fits in the VMware Tanzu® portfolio
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- 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

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

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.

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.

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.

Q: What related terms do people search for?

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

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

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

Professional Training & Development

Email: info@nexushuman.com

Website: www.nexushuman.com

Phone: +353 1 889 8700 (Ireland) | +44 20 8142 8961 (UK)

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