

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

Course code: VMWVSKDM7

During this 3-day course, you focus on deploying and managing VMware vSphere® with Kubernetes. You learn about how vSphere with Kubernetes can be used to orchestrate the delivery of Kubernetes clusters and containerized applications in a VMware vSphere® environment.

## Who is the course for

Experienced system administrators and system integrators responsible for designing and implementing vSphere with Tanzu

## What we teach you

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

- Describe vSphere with Tanzu and use cases in on-premises environments
- Deploy vSphere with Tanzu
- Describe VMware Tanzu Mission Control
- Describe the VMware NSX® networking requirements for vSphere with Tanzu.
- Describe vSphere with Tanzu on NSX-T Data Center
- Describe vSphere with Tanzu on vSphere Distributed Switch
- Create and manage vSphere with Tanzu namespaces
- Deploy and run container applications on vSphere with Tanzu
- Deploy and configure Harbor
- Describe the VMware Tanzu™ Kubernetes Grid™ service
- Deploy a Tanzu Kubernetes Grid cluster
- Deploy and run container applications on a Tanzu Kubernetes Grid cluster
- Describe the vSphere with Tanzu lifecycle
- Use logs and CLI commands to monitor and troubleshoot vSphere with Tanzu

## Required skills

This course requires completion of one of the following courses:

- VMware vSphere: Install, Configure, Manage
- VMware vSphere: Optimize and Scale

Experience working at the command line is helpful.

This course requires that a student be able to perform the following tasks with no assistance or guidance before enrolling in this course:

- Create VMware vCenter Server® objects, such as data centers and folders
- Create a virtual machine using a wizard or a template
- Modify a virtual machine's hardware
- Migrate a virtual machine with VMware vSphere® vMotion®
- Migrate a virtual machine with VMware vSphere® Storage vMotion®
- Configure and manage a vSphere DRS cluster with resource pools
- Configure and manage a VMware vSphere® High Availability cluster

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If you cannot perform all of these tasks, VMware recommends that you complete one of the prerequisite courses before enrolling in VMware vSphere with Tanzu: Deploy & Manage.

## Course outline

### 1 Course Introduction

- Introductions and course logistics
- Course objectives

### 2 Introduction to Containers and Kubernetes

- Describe virtual machines and containers
- Describe container hosts
- Describe container engines
- Describe Dockerfile
- Describe container images
- Describe image registry
- Describe the purpose and functionality of Kubernetes
- Describe YAML manifest files
- Explain pods
- Explain Replica Sets
- Explain services
- Explain deployments
- Explain network policies

### 3 Introduction to vSphere with Tanzu

- Introduce the Cloud Native Computing Foundation
- Introduce the VMware Tanzu™ portfolio
- Describe the purpose and functionality of vSphere with Tanzu
- Describe the capabilities of vSphere with Tanzu
- Describe the components of vSphere with Tanzu
- Contrast vSphere with Tanzu to traditional Kubernetes
- Describe the requirements for vSphere with Tanzu
- Describe the NSX components required for vSphere with Tanzu
- Describe the network topology of vSphere with Tanzu
- Explain the networking requirements of vSphere with Tanzu
- Compare NSX networking objects with Kubernetes networking objects
- Describe the kubectl command line interface

### 4 vSphere with Tanzu Core Services

- Explain the architecture of the vSphere with Tanzu core services
- Describe the use cases of vSphere with Tanzu
- Enable vSphere with Tanzu

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- Deploy Harbor Registry
  - Describe a vSphere with Tanzu namespace
  - Describe resource quotas
  - Explain authentication and authorization to vSphere with Tanzu
  - Create a namespace
  - Use kubectl to interact with vSphere with Tanzu
  - Describe using kubectl pod deployment
  - Explain scaling a pod deployment
  - Explain deleting pods
  - Use kubectl to deploy a pod
  - Use kubectl to scale a pod
  - Describe a Container Storage Interface
  - Explain VM Storage Policies and Persistent Volumes
  - Monitor Cloud Native Storage
  - Create a Persistent Volume
  - Describe the NSX Container Plugin
  - Explain Supervisor Cluster Network Topology
  - Explain Container Objects in NSX
  - Describe Kubernetes Services
  - Describe Kubernetes Network Policies
  - Describe vSphere with Tanzu on vSphere Distributed Switch
  - Describe Harbor Image Registry
  - Explain Harbor integration with vSphere with Tanzu
  - Enable Harbor
  - Push container images to Harbor
  - Deploy containers from Harbor
- ## 5 VMware Tanzu Kubernetes Grid service
- Introduce Kubernetes Cluster API
  - Explain Tanzu Kubernetes Grid service
  - Describe the use cases for Tanzu Kubernetes Grid clusters
  - Describe enabling Tanzu Kubernetes Clusters
  - Deploy a Tanzu Kubernetes Cluster
  - Scale a Tanzu Kubernetes Cluster
  - Explain the life cycle of Tanzu Kubernetes Clusters
  - Deploy pods to a Tanzu Kubernetes Cluster
  - Describe monitoring of Tanzu Kubernetes Clusters

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## 6 Monitoring and Troubleshooting

- Describe the monitoring tools for vSphere with Tanzu
- Describe the troubleshooting tools for vSphere with Tanzu
- Describe VMware vRealize® Operations Manager™ integration
- Describe VMware Tanzu Mission Control
- Describe the integration between vSphere with Tanzu and VMware Tanzu Mission Control
- Describe vCenter Server events
- Describe vSphere with Tanzu events
- Describe gathering vSphere with Tanzu support log bundles

## 7 vSphere with Tanzu Life Cycle

- Introduce Kubernetes version
- Explain Kubernetes release cadence
- Describe vSphere with Tanzu life cycle
- Describe NSX component life cycle
- Describe vSphere with Tanzu Certificate Management

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