



VMware vSphere with Tanzu: Deploy, Configure, Manage

LENGTH

3 days

PRICE (Excl. GST)

NZD 3700

VERSION

8

VMWARE AT LUMIFY WORK

VMware is the world leader in server virtualisation technologies. Lumify Work is a VMware Education Reseller Partner (VERP), offering training in vSphere, vRealize, vSAN, Horizon, NSX-T, Workspace ONE, Carbon Black, and other VMware technologies and platforms.



WHY STUDY THIS COURSE

This course focuses on deploying and managing VMware vSphere® with VMware Tanzu® in a VMware vSphere® 8 environment. Learn how vSphere with Tanzu provides services to deploy and manage virtual machines and vSphere Pods. You will also gain experience with managing Supervisor Services and VMware Tanzu® Kubernetes Grid™ clusters in addition to day 2 operations and life cycle management.

Product Alignment

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

WHAT YOU'LL 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
- › 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
- › Deploy and manage virtual machines using the VM Service
- › Deploy and configure Contour as a Supervisor Service
- › Deploy and configure ExternalDNS as a Supervisor Service

<https://www.lumifywork.com/en-nz/courses/vmware-vsphere-with-tanzu-deploy-and-manage/>



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My instructor was great being able to put scenarios into real world instances that related to my specific situation.

I was made to feel welcome from the moment I arrived and the ability to sit as a group outside the classroom to discuss our situations and our goals was extremely valuable.

I learnt a lot and felt it was important that my goals by attending this course were met.

Great job Lumify Work team.



AMANDA NICOL
IT SUPPORT SERVICES
MANAGER - HEALTH WORLD
LIMITED

- › Deploy and configure Harbor as a Supervisor Service
- › Deploy and manage Tanzu Kubernetes Grid workload clusters
- › 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

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COURSE SUBJECTS

1. Course Introduction

- Introductions and course logistics
- Course objectives

2. 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 the Tanzu Kubernetes Grid clusters

3. vSphere with Tanzu Infrastructure

- Explain the storage concepts in vSphere with Tanzu
- Describe storage policies
- Describe content libraries
- Describe Container Storage Interface
- Discuss storage for Tanzu Kubernetes Grid clusters

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Lumify Work Customised Training

We can also deliver and customise this training course for larger groups saving your organisation time, money and resources.

For more information, please contact us on [0800 835 835](tel:0800835835).



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- Explain vSAN Direct datastores for vSphere with Tanzu
- Identify the two network stacks available for vSphere with Tanzu deployments
- Describe the VMware vSphere® Distributed Switch™ components that are used by vSphere with Tanzu
- List the VMware NSX® components that are used by vSphere with Tanzu
- List the load balancer solutions supported by vSphere with Tanzu

4. 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 Namespaces resources and Kubernetes object limits
- Describe content libraries and VM images
- Describe VM classes
- List the different type 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
- Describe Kubernetes CLI Tools for vSphere
- List the vSphere with Tanzu services and workloads

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- Identify the supportability for vSphere with Tanzu services and workloads based on the Supervisor deployment types

5. vSphere with Tanzu Core Services

- Describe the characteristics of vSphere Pods
- Recognise the capabilities of vSphere Pods
- Identify the components of vSphere Pods
- 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
- Describe Tanzu Kubernetes Grid clusters
- List the components of a Tanzu Kubernetes Grid workload cluster
- 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

6. vSphere with Tanzu Supervisor Services

- Explain the concept of Supervisor Services
- Describe the Supervisor Services catalog and its available services
- Explain how to add and manage the life cycle of Supervisor Services

7. vSphere with Tanzu Life Cycle

- List the prerequisites and steps for updating vSphere with Tanzu
- Explain the Supervisor updates
- Explain the vSphere Namespace update

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- Discuss the update process of Tanzu Kubernetes Grid clusters

8. Day 2 Operations

- Explain how to view Kubernetes namespace events
- List ways to monitor vSphere Pod utilisation
- Identify how to monitor vSphere Pod performance
- Explain vSphere with Tanzu control plane certificate management
- Identify the various vSphere with Tanzu logs
- List the steps to generate a vSphere with Tanzu support bundle
- Explain how to use SSH to connect to the Supervisor control plane nodes

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CLOUD COMPUTING AND VIRTUALISATION

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WHO IS THE COURSE FOR?

- vSphere administrators and 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

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