VMware vSphere with Tanzu: Deploy and Manage [v8.0] Training

Duration: **3 Day**

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In this **three-day course**, you'll focus on **deploying and managing VMware vSphere® with Tanzu® in a vSphere 8 environment**. You'll gain hands-on experience in managing **Supervisor Services, VMware Tanzu Kubernetes Grid (TKG) clusters, vSphere Pods, and VM workloads**, as well as **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

Prerequisites

- Experience deploying and managing vSphere
- Understanding of Kubernetes and cluster architecture
- Recommended courses:
  - **VMware vSphere: Install, Configure, Manage**
  - **Kubernetes Fundamentals and Cluster Operations**

Who Should Attend

- vSphere administrators
- Platform operators managing workloads and services in vSphere with Tanzu

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What You Will Learn

By the end of this course, you'll be able to:

- Explain the role of vSphere with Tanzu in the VMware Tanzu portfolio
- Describe vSphere with Tanzu concepts, architecture, and components
- Understand integration with NSX and Distributed Switch
- Deploy and manage Supervisors, VM Service, and Supervisor Services
- Deploy and configure Tanzu Kubernetes Grid workload clusters
- Manage vSphere Pods and deploy applications
- Perform backups with Velero
- Use vSphere UI and CLI for monitoring and troubleshooting

Training Outline

1. Course Introduction

- Introductions and course objectives

2. Introducing vSphere with Tanzu

- Tanzu Kubernetes Grid, Mission Control, and Kubernetes Operations
- Supervisor architecture, Namespaces, and Services
- VM Service and TKG clusters

3. vSphere with Tanzu Infrastructure

- Storage concepts, storage policies, and content libraries
- Container Storage Interface (CSI)
- vSAN Direct datastores
- Network stack options, NSX, and load balancers

4. vSphere with Tanzu Architecture

- Supervisor deployment options and requirements
- Licensing, authentication, and RBAC

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- Namespace resource limits and roles
- CLI tools for vSphere Kubernetes

5. Core Services

- vSphere Pods and their components
- VM Service: parameters, requirements, and use cases
- Tanzu Kubernetes Grid workload clusters

6. Supervisor Services

- Supervisor Services catalog
- Adding and managing services lifecycle

7. Life Cycle Management

- Supervisor and Namespace updates
- TKG cluster update process

8. Day-2 Operations

- Viewing namespace events and monitoring Pods
- Performance tracking and certificate management
- Troubleshooting with logs and support bundles
- SSH access to Supervisor nodes