



Enterprise Computing Solutions - Education Services

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CODE:	LÄNGE:	PREIS:
VMW_VSKDM7	24 Hours (3 Tage)	€2,250.00

Description

Dieses dreitägige Seminar konzentriert sich auf die Bereitstellung und Verwaltung von VMware vSphere® mit Tanzu. Sie lernen, wie vSphere mit Tanzu verwendet werden kann, um die Bereitstellung von Kubernetes-Clustern und containerisierten Anwendungen in einer VMware vSphere®-Umgebung zu koordinieren.

Lernziel

Nach Abschluss dieses Seminars haben die Teilnehmer*innen Wissen zu folgenden Themen:

- 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

Zielgruppe

erfahrene Systemadministrator*innen und Systemintegrator*innen, die für das Entwerfen und Implementieren von vSphere mit Tanzu verantwortlich sind.

Voraussetzungen

Dieses Seminar erfordert den Besuch folgender Seminare:

VMware vSphere: Install, Configure, Manage ODER VMware vSphere: Optimize and Scale UND

VMware NSX-T Data Center: Install, Configure, Manage Erfahrung in der Kommandozeile ist hilfreich.

Für dieses Seminar muss der Teilnehmer*innen in der Lage sein die folgenden Aufgaben ohne Unterstützung oder Anleitung auszuführen:

- 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

Inhalt

	Introductions and course logistics	
Course Introduction	Course objectives	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

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

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

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

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

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

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

Kurstermine

Auf Anfrage. Bitte [kontaktieren Sie uns](#)

Zusätzliche Information

[Diese Schulung ist auch als Vor-Ort-Schulung verfügbar. Bitte kontaktieren Sie uns, um mehr zu erfahren.](#)