VMWA-5 - VMWARE VSPHERE WITH TANZU: DEPLOY, CONFIGURE, MANAGE [V8]

Categoria: **VMware**

INFORMAZIONI SUL CORSO

Durata:	Categoria:	Qualifica Istruttore:	Dedicato a:	Produttore:
3 Giorni	VMware	VMware Certified Instructor	Professionista IT	VMware

OBIETTIVI

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
-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

PREREQUISITI

-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

CONTENUTI

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
- 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
- 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
-Recognize 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
-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 utilization
-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

INFO

Materiale didattico: Materiale didattico ufficiale VMware in formato digitale
Costo materiale didattico: incluso nel prezzo del corso a Calendario
Natura del corso: Operativo (previsti lab su PC)