

VCP-Tanzu for Kubernetes Operations



Online Course

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Course Modules

1. Architecture and Technologies

- Describe Kubernetes Lifecycle Management Concepts
- Describe Application Modernization Concepts
- Describe Kubernetes logical objects
- Describe Kubernetes Platform and Service Administration Concepts
- Describe Kubernetes Cluster and Application Security Concepts
- Kubernetes Application Deployment & Lifecycle Management Concepts
- Describe Kubernetes networking and storage concepts
- Describe the concepts of service mesh
- Describe the concept of observability for Kubernetes
- Describe the concept of application package management
- Describe the concept of Cluster API

2. VMware Products and Solutions

- Understand and Explain Common Administration Requirements for Tanzu
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- Describe the features and benefits of Aria Operations for App
- Describe the features and benefits of Tanzu Service Mesh



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3.VMware Tanzu for Kubernetes Operations

- Tanzu for Kubernetes Operations Common
- Describe the role of cert-manager
- Describe the role of Harbor image registry
- Describe the role of Fluent Bit
- Describe the role of Contour ingress controller
- Describe the role of External DNS
- Describe the role of Prometheus and Grafana
- Describe the role of Velero
- Describe the role of Multus Container Network Interface (CNI) TMC
- Describe the steps to attach a management or supervisor cluster
- Deploy a workload cluster
- Attach a Kubernetes cluster
- Steps to upgrade the Kubernetes version on a workload cluster
- Understand the role of the policies
- Define Cluster Groups and Workspaces
- Describe access policies and roles
- Describe network policies
- Describe image registry policies
- Backup and restore a cluster
- Deploy an app to a workload cluster using the TMC Catalog TKG
- Describe the benefits of Tanzu Kubernetes Grid



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- Describe the components that run in Tanzu Kubernetes Grid
- Describe cluster lifecycle management in Tanzu Kubernetes Grid
- Describe the steps to scale a cluster up/down
- Describe package management
- Authentication & authorization methods for Tanzu Kubernetes Clusters
- Describe Container Network Interface (CNI) options
- Describe Container Storage Interface (CSI) vSphere with Tanzu
- Describe the Supervisor Cluster
- Describe the steps to provision a Supervisor Cluster
- Describe vSphere Namespaces
- Describe Tanzu Kubernetes Grid Service
- Describe Tanzu Kubernetes Grid workload clusters
- Describe Virtual Machine (VM) Class in vSphere with Tanzu
- Describe Storage Policies in vSphere with Tanzu
- vSphere with Tanzu shared datastores types Tanzu Service Mesh
- Describe the purpose of Global Namespaces
- Describe application connectivity services and traffic control benefits
- Describe applications autoscaling functionality
- Objective 3.39 Describe the benefits of Tanzu Service Mesh user interface
- Aria Operations for Applications (Observability)
- Describe Aria Operations for Applications capabilities and features
- Describe the components of Aria Operations for Applications
- Aria Operations for Applications integration with Tanzu Mission Control



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- Describe NSX Advanced Load Balancer capabilities and features
- Describe the components of NSX Advanced Load Balancer
- How Tanzu Kubernetes Grid integrates with NSX Advanced Load Balancer

4. VMware Tanzu for Kubernetes Operations Security

- Describe registry Policies for deploying images
- Explain registry scanning policies for identifying CVE's in images



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