2V0-71.23^{Q&As}

VMware Tanzu for Kubernetes Operations Professional

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QUESTION 1

An administrator was requested to create a pod with two interfaces to separate the application and management traffic for security reasons.

Which two packages have to be installed in VMware Tanzu Kubernetes Grid cluster to satisfy the requirement? (Choose two.)

A. multus

B. external-dns

C. cert-manager

D. qrafana

E. contour

Correct Answer: AE

Multus is an open-source container network interface plugin for Kubernetes that enables attaching multiple network interfaces to pods. Contour is an open-source Kubernetes ingress controller that provides dynamic configuration updates and makes use of the Envoy proxy as a data plane. By installing these two packages in a VMware Tanzu Kubernetes Grid cluster, an administrator can create a pod with two interfaces and use Contour to route the application and management traffic to different networks. The other options are incorrect because: external-dns is a package that synchronizes exposed Kubernetes services and ingresses with DNS providers. It does not provide multiple interfaces for pods. cert-manager is a package that automates the management and issuance of TLS certificates from various sources. It does not provide multiple interfaces for pods. qrafana is not a valid package name. The correct spelling is Grafana, which is a package that provides visualization and analytics for metrics collected by Prometheus. It does not provide multiple interfaces for pods. References: Install Multus and Whereabouts for Container Networking, Install Contour for Ingress

QUESTION 2

Which statement correctly describes the Cluster API?

A. It is a specialized toolset to bring declarative, Kubernetes-style APIs to cluster creation, configuration, and management in the Kubernetes ecosystem.

B. It enables pod networking and enforces network Kubernetes policies.

C. It is responsible for scanning language-specific packages in container images, such as Java, Python, Go, and others.

D. It is a native Kubernetes certificate management controller that adds certificates and certificate issuers as resource types in Kubernetes clusters.

Correct Answer: A

The statement that correctly describes the Cluster API is that it is a specialized toolset to bring declarative, Kubernetes-style APIs to cluster creation, configuration, and management in theKubernetes ecosystem. Cluster API is a Kubernetes sub-project that provides declarative APIs and tooling to simplify provisioning, upgrading, and operating multiple Kubernetes clusters5. Cluster API uses a set of custom resource definitions (CRDs) to represent clusters, machines,

and other objects. Cluster API also relies on providers to implement the logic for interacting with different infrastructure platforms5. References: Introduction - The Cluster API Book

QUESTION 3

What are three capabilities of VMware Aria Operations for Applications (formerly known as Tanzu Observability)? (Choose three.)

A. Create Alerts

B. Set Application Container security policy

C. Set Service Level Objectives

D. Create Kubernetes Clusters

E. Create Charts and Dashboards

F. Create Queries

Correct Answer: AEF

VMware Aria Operations for Applications (formerly known as Tanzu Observability) is a unified observability platform that provides full-stack visibility using metrics, traces, and logs across distributed applications, application services, container services, and multi-cloud environments. Some of the capabilities of VMware Aria Operations for Applications are: Create alerts: Users can monitor for certain behaviors and get smart notifications based on query conditions. Users can create alerts independently or directly from charts, and use advanced and accurate alerting powered by AI/analytics and query language1. Create charts and dashboards: Users can visualize their data based on query results in various chart types (such as line plot, point plot, table, pie chart, etc.) and organize them in dashboards. Users can also interact with charts and dashboards in real time, such as zoom in, zoom out, change the time window, change the focus, and so on1. Create queries: Users can use the Wavefront Query Language (WQL) to extract the information they need from their data. Users can use the Chart Builder for easy query creation or the Query Editor for advanced query editing. Users can also use functions, operators, variables, macros, and expressions to manipulate their data1. References: VMware Aria Operations for Applications Documentation, Unified Observability Platform by VMware Aria Operations for Applications

QUESTION 4

Which two are installed on the target cluster when VMware Tanzu Mission Control Data Protection is enabled? (Choose two.)

A. VMware Tanzu Mission Control agent

B. Velero

C. FluentBit

D. Data protection extension

E. Antrea

Correct Answer: BD

Two components that are installed on the target cluster when VMware Tanzu Mission Control Data Protection is

enabled are Velero and data protection extension. VMware Tanzu Mission Control Data Protection is a feature that allows users to backup and restore Kubernetes resources and persistent volumes across clusters using a centralized management platform6. To enable data protection for a cluster, users need to install Velero and data protection extension on the cluster7. Velero is an open source tool that performs backup and restore operations using custom resource definitions and controllers6. Data protection extension is a component that enhances Velero\'s functionality by providing additional features such as backup scheduling, retention policy, backup hooks, restore hooks, and backup encryption8. References: Data Protection - VMware Docs, Protecting Data - VMware Docs, Enable Data Protection for a Cluster - VMware Docs

QUESTION 5

What are three VMware products that VMware Tanzu Kubernetes Grid natively integrates with? (Choose three.)

A. NSX Advanced Load Balancer

B. NSX-T Data Center

C. BOSH

D. vSphere with VMware Tanzu

E. vRealize Network Insight

F. Tanzu Mission Control

Correct Answer: ABD

VMware Tanzu Kubernetes Grid is an enterprise-ready Kubernetes runtime that streamlines operations across multi-cloud infrastructure1. Tanzu Kubernetes Grid natively integrates with the following VMware products: NSX Advanced Load Balancer: A solution that provides L4 and L7 load balancing and ingress control for Kubernetes clusters. NSX Advanced Load Balancer can be used as the default load balancer provider for both management and workload clusters on vSphere, AWS, Azure, and other platforms2. NSX-T Data Center: A network virtualization and security platform that provides consistent networking and security for applications running across private and public clouds. NSX-T Data Center can be used as the default network plugin for both management and workload clusters on vSphere, AWS, Azure, and other platforms3. vSphere with VMware Tanzu: A solution that enables you to run Kubernetes workloads natively on a vSphere cluster, and to provision and manage Kubernetes clusters using the vSphere Client. vSphere with VMware Tanzu can be used as the platform to deploy Tanzu Kubernetes Grid management clusters and workload clusters4. The other options are incorrect because: BOSH is an open-source tool that provides release engineering, deployment, lifecycle management, and monitoring of distributed systems. BOSH is not a VMware product, nor does it natively integrate with Tanzu Kubernetes Grid5. vRealize Network Insight is a solution that delivers intelligent operations for software-defined networking and security. It helps optimize network performance and availability with visibility and analytics across virtual and physical networks. vRealize Network Insight is not natively integrated with Tanzu Kubernetes Grid6. Tanzu Mission Control is a centralized management platform for consistently operating and securing your Kubernetes infrastructure and modern applications across multiple teams and clouds. Tanzu Mission Control is not natively integrated with Tanzu Kubernetes Grid, but rather works with it as a separate product7. References: VMware Tanzu Kubernetes Grid Overview, NSX Advanced Load Balancer, NSX-T Data Center, vSphere with VMware Tanzu, BOSH, vRealize Network Insight, Tanzu Mission Control Overview

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