



# 2V0-71.23<sup>Q&As</sup>

VMware Tanzu for Kubernetes Operations Professional

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### QUESTION 1

Which Container Network Interface (CNI) is selected by default in a VMware Tanzu Kubernetes Grid workload cluster?

- A. Multus CNI
- B. Antrea
- C. Flannel
- D. Calico

Correct Answer: B

Antrea is the default CNI for new Tanzu Kubernetes Grid workload clusters<sup>8</sup>. Antrea is an open-source Kubernetes networking solution that implements the Container Network Interface (CNI) specification and uses Open vSwitch (OVS) as the

data plane<sup>9</sup>. Antrea supports various features such as network policies, service load balancing, NodePortLocal, IPsec encryption, IPv6 dual-stack, and more<sup>10</sup>.

The other options are incorrect because:

Multus CNI is an open-source container network interface plugin for Kubernetes that enables attaching multiple network interfaces to pods<sup>11</sup>. It is not the default CNI for Tanzu Kubernetes Grid workload clusters. Flannel is an open-source

simple and easy-to-use overlay network that satisfies the Kubernetes requirements<sup>12</sup>. It is not the default CNI for Tanzu Kubernetes Grid workload clusters.

Calico is an open-source network and network security solution for containers, virtual machines, and native host-based workloads<sup>13</sup>. It is not the default CNI for Tanzu Kubernetes Grid workload clusters.

References: Tanzu Kubernetes Grid Cluster Networking, Antrea, Antrea Features, Multus CNI, Flannel, Calico

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### QUESTION 2

Which two package management tools can be used to configure and install applications on Kubernetes? (Choose two.)

- A. Grafana
- B. Fluent bit
- C. Carvel
- D. Helm
- E. Multus

Correct Answer: CD

Two package management tools that can be used to configure and install applications on Kubernetes are: Carvel. Carvel is a set of tools that provides a simple, composable, and flexible way to manage Kubernetes configuration, packaging, and deployment. Carvel includes tools such as kapp, which applies and tracks Kubernetes resources in a



cluster; ytt, which allows templating YAML files; kbuild, which builds and pushes images to registries; kpack, which automates image builds from source code; and vendir, which syncs files from different sources into a single directory. Carvel is integrated with VMware Tanzu Kubernetes Grid and can be used to deploy and manage applications on Tanzu clusters. Helm. Helm is a tool that helps users define, install, and upgrade complex Kubernetes applications using charts. Charts are packages of pre-configured Kubernetes resources that can be customized with values. Helm uses a client-server architecture with a command line tool called helm and an in-cluster component called Tiller. Helm can be used to deploy applications from the official Helm charts repository or from custom charts created by users or vendors. Helm is also integrated with VMware Tanzu Kubernetes Grid and can be used to deploy and manage applications on Tanzu clusters. References: : <https://carvel.dev/> : <https://docs.vmware.com/en/VMware-Tanzu-Kubernetes-Grid/1.6/vmware-tanzu-kubernetes-grid-16/GUID-tkg-carvel.html> : <https://helm.sh/> : <https://docs.vmware.com/en/VMware-Tanzu-Kubernetes-Grid/1.6/vmware-tanzu-kubernetes-grid-16/GUID-tkg-helm.html>

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### QUESTION 3

What is the function of Velero?

- A. Backup and restore Kubernetes clusters
- B. Monitor cluster services
- C. Publish DNS records for applications to DNS servers
- D. Collect data and logs from different sources, unify them, and send them to multiple destinations

Correct Answer: A

Velero is an open source tool that can safely backup and restore, perform disaster recovery, and migrate Kubernetes cluster resources and persistent volumes. Velero can capture both the Kubernetes objects and the persistent volumes associated with an application, and restore them in a different cluster or namespace. Velero also supports different storage providers to store its backups, such as AWS S3, Azure Blob Storage, Google Cloud Storage, and more. References:

1: <https://middleware.io/blog/kubernetes-observability/>

2: <https://docs.vmware.com/en/VMware-Tanzu-Mission-Control/services/tanzumc-using/GUID-0A1AEC6A-3E5C-424F-8EBC-1DDFC14D2688.html>

3: <https://docs.vmware.com/en/VMware-Tanzu-Mission-Control/services/tanzumc-using/GUID-EB507AAF-5F4F-400F-9623-BA611233E0BD.html>

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### QUESTION 4

What statement describes the role of VMware Aria Operations for Applications (formerly VMware Tanzu Observability) in VMware Tanzu for Kubernetes Operations?

- A. Watches defined infrastructure systems to keep track of health of resources.
- B. Automates the remediation of Kubernetes platform resources based on collected data.
- C. Tracks metrics, logs, and alerts based on specified thresholds.
- D. Collects and analyzes traces, metrics, and logs to provide single source of truth for actionable insights.



Correct Answer: D

VMware Aria Operations for Applications (formerly VMware Tanzu Observability) is a SaaS solution that collects and analyzes traces, metrics, and logs from various sources, including Tanzu Kubernetes Grid clusters, applications, and services. It provides a single source of truth for actionable insights into the performance, availability, and behavior of the entire application stack. It also enables users to create dashboards, alerts, and reports based on the collected data. The other options are incorrect because: Watches defined infrastructure systems to keep track of health of resources is a description of VMware Tanzu Mission Control, which is another SaaS solution that provides centralized management and governance for Tanzu Kubernetes Grid clusters across multiple platforms. Automates the remediation of Kubernetes platform resources based on collected data is a description of VMware Tanzu Service Mesh, which is a service that creates an enterprise-class service mesh for consistent control and security for microservices, end users, and data. Tracks metrics, logs, and alerts based on specified thresholds is a partial description of VMware Aria Operations for Applications, but it does not mention the trace analysis and the single source of truth features. References: VMware Tanzu for Kubernetes Operations Getting Started, VMware Aria Operations for Applications Documentation

## QUESTION 5

What are four policy types supported by VMware Tanzu Mission Control? (Choose four.)

- A. Security policy
- B. Pod security policy
- C. Access policy
- D. Cluster group policy
- E. Network policy
- F. Custom policy
- G. Workspace policy

Correct Answer: ACEF

Four policy types that are supported by VMware Tanzu Mission Control are:

**Security policy:** Security policies allow you to manage the security context in which deployed pods operate in your clusters by imposing constraints on your clusters that define what pods can do and which resources they have access to<sup>6</sup>.

**Access policy:** Access policies allow you to use predefined roles to specify which identities (individuals and groups) have what level of access to a given resource<sup>7</sup>. **Network policy:** Network policies allow you to use preconfigured templates to

define how pods communicate with each other and other network endpoints<sup>8</sup>. **Custom policy:** Custom policies allow you to implement additional business rules, using templates that you define, to enforce policies that are not already

addressed using the other built-in policy types<sup>9</sup>.

References: Policy-Driven Cluster Management - VMware Docs



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