

VMware.2V0-71.23.by.LeHynu.47q

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**Exam Code: 2V0-71.23**

**Exam Name: VMware Tanzu for Kubernetes Operations Professional**



## Exam A

### QUESTION 1

Which statement describes how VMware Tanzu Mission Control and VMware Aria Operations for Applications integrate?

- A. An administrator can enable VMware Aria Operations for Applications using the integrations tab in VMware Tanzu Mission Control.
- B. VMware Aria Operations for Applications is enabled by default in VMware Tanzu Mission Control. No integration is required.
- C. An administrator can login to VMware Aria Operations for Applications and enable VMware Tanzu Mission Control integration from the administration menu.
- D. An administrator can download and install the VMware Aria Operations Observations agent from Tanzu CLI.

**Correct Answer: A**

**Section:**

### QUESTION 2

What is the purpose of a service mesh?

- A. Provides dynamic application load balancing and autoscaling across multiple clusters and multiple sites.
- B. Provides a centralized, global routing table to simplify and optimize traffic management.
- C. Provides service discovery across multiple clusters.
- D. Provides an infrastructure layer that makes communication between applications possible, structured, and observable.

**Correct Answer: D**

**Section:**

### QUESTION 3

Which method describes how Kubernetes clusters are upgraded?

- A. Use rolling upgrade
- B. In-place upgrade of each node
- C. Use canary upgrade
- D. Deploy a new cluster with upgraded Kubernetes release

**Correct Answer: A**

**Section:**

### QUESTION 4

Which two groups can be created to collect and manage objects in VMware Tanzu Service Mesh? (Choose two.)

- A. Node groups
- B. Cluster groups
- C. Security groups
- D. API groups
- E. Service groups

**Correct Answer: B, E**

**Section:**

**QUESTION 5**

Which statement is true about Tanzu package CLI plugin?

- A. It cannot be used to add additional package repositories apart from tanzu-standard.
- B. It can be used to manage packages in public repositories.
- C. It is intended only for CLI-managed packages.
- D. It can be used to install auto-managed packages.

**Correct Answer: B**

**Section:**

**QUESTION 6**

Which L7 ingress mode leverages the integration between NSX Advanced Load Balancer and Antrea?

- A. L7 ingress in NodePort mode
- B. L7 ingress in ClusterIP mode
- C. L7 ingress in NodePortLocal mode
- D. L7 ingress in NodeIntegration mode

**Correct Answer: C**

**Section:**

**QUESTION 7**

What is the Kubernetes component that is responsible for workload creation?

- A. API Sep/er
- B. Scheduler
- C. etcd
- D. Kubelet

**Correct Answer: D**

**Section:**

**QUESTION 8**

Which two methods can be used to install Fluent Bit on a VMware Tanzu Kubernetes Grid cluster? (Choose two.)

- A. Install Fluent Bit using Tanzu CLI login plugin
- B. Install Fluent Bit using VMware Tanzu Kubernetes Grid Installer Interface
- C. Install Fluent Bit from VMware Tanzu Mission Control
- D. Install Fluent Bit from VMware vSphere Client
- E. Install Fluent Bit using Tanzu CLI package plugin

**Correct Answer: C, E**

**Section:**



**QUESTION 9**

Which two resources can External DNS create records for? (Choose two.)

- A. Virtual machines
- B. Kubernetes pods
- C. Kubernetes services
- D. Kubernetes nodes
- E. Contour HTTP Proxy

**Correct Answer: C, E**

**Section:**

**QUESTION 10**

What is the correct resource hierarchy order in VMware Tanzu Mission Control?

- A. Root -> Cluster Groups -> Clusters
- B. Organization -> Cluster Groups -> Namespaces
- C. Organization -> Clusters -> Cluster Groups
- D. Organization -> Cluster Groups -> Clusters

**Correct Answer: D**

**Section:**

**QUESTION 11**

What two steps are required to visualize API connectivity and enable API protection in VMware Tanzu Service Mesh? (Choose two.)

- A. Activate API Discovery for the Global Namespace
- B. Create API Security Policy for the Global Namespace
- C. Enable Threat Detection Policy for the Global Namespace
- D. Set a Distributed Firewall policy for the Global Namespace
- E. Create an Autoscaling policy for API for the Global Namespace

**Correct Answer: A, B**

**Section:**

**QUESTION 12**

An administrator set the following value: ENABLE\_AUDIT\_LOGGING=true during a cluster deployment. What was the purpose of this setting?

- A. Log metadata about all requests made to the Kubernetes API server.
- B. Enable log redirection to external logging server by Fluent Bit.
- C. Run scripts that collect Kubernetes API output, node logs, and node command-line output.
- D. Activate the kubectl describe command for CustomResourceDefinitions (CRDs) introduced by Cluster API.

**Correct Answer: A**

**Section:**

**QUESTION 13**

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: C, D**

**Section:**

#### QUESTION 14

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**

**Section:**

#### QUESTION 15

Where can an administrator register the vSphere management cluster in VMware Tanzu Mission Control?

- A. In the VMware Tanzu Mission Control web console or CLI
- B. In the vSphere Management Cluster with Jcubeccl
- C. In the vSphere Client - Workload Cluster settings
- D. In the vSphere Namespace with Jcubeccl

**Correct Answer: A**

**Section:**

#### QUESTION 16

Which two statements describe Kubernetes observability characteristics? (Choose two.)

- A. It provides network insight and detailed Kubernetes network topology view
- B. Provides visibility into Kubernetes clusters for troubleshooting and impact assessment
- C. It observes the code of the applications running in Kubernetes environment
- D. Collects real-time metrics from all layers of Kubernetes
- E. Automatically heals Kubernetes workloads after an issue has been observed

**Correct Answer: B, D**

**Section:**

#### QUESTION 17

Which component must be installed upfront to deploy VMware Tanzu Kubernetes Grid management cluster?

- A. Tanzu CLI
- B. Cluster API
- C. Kubeadm
- D. External DNS

**Correct Answer: A**

**Section:**

#### QUESTION 18

An administrator has a VMware Tanzu Kubernetes Grid management cluster named tanzu-mc01 which needs to be upgraded. Which command can be used to upgrade this cluster?

- A. kubectl management-cluster upgrade
- B. tanzu mc upgrade
- C. tanzu config use-context tanzu-mc01-admin@tanzu-mc01
- D. kubectl tanzu-mc01 upgrade

**Correct Answer: B**

**Section:**

#### QUESTION 19

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**

**Section:**

#### QUESTION 20

Which set of tools can be used to attach a Kubernetes cluster to VMware Tanzu Mission Control?

- A. Tanzu CLI and VMware vSphere Web UI
- B. Tanzu CLI and VMware Tanzu Mission Control Web UI
- C. kubectl and VMware vSphere Web UI
- D. kubectl and VMware Tanzu Mission Control Web UI

**Correct Answer: B**

**Section:**

#### QUESTION 21

A Tanzu Mission Control administrator would like to enforce the following container controls: Which type of policy can be used?

- A. Access
- B. Security
- C. Image Security
- D. Image Registry
- E. Network

**Correct Answer: C**

**Section:**

#### QUESTION 22

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. grafana
- E. contour

**Correct Answer: A, E**

**Section:**

#### QUESTION 23

Which kinds of objects does the Kubernetes RBAC API declare?

- A. CloudPolicyObject
- B. Role, ClusterRole, RoleBinding and ClusterRoleBinding
- C. Container type and Container object
- D. ClusterObject and ClusterNode

**Correct Answer: B**

**Section:**

#### QUESTION 24

What is the role of Prometheus in a VMware Tanzu Kubernetes Grid cluster?

- A. Provide the functionality of a lightweight log processor and forwarder that allows you to collect data and logs from different sources.
- B. Collect metrics from target clusters at specified intervals, evaluate rule expressions, display the results, and trigger alerts if certain conditions arise.
- C. Inject time-series database (TSDB) data into high-quality graphs and visualizations.
- D. Extend the open-source Docker distribution by adding the functionalities usually required by users such as security and identity control and management.

**Correct Answer: B**

**Section:**

#### QUESTION 25

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: A, D, E**

**Section:**

**QUESTION 26**

What are two possible counts of control plane nodes in a Tanzu Kubernetes Grid Workload Cluster? (Choose two.)

- A. 3
- B. 5
- C. 2
- D. 0
- E. 1

**Correct Answer: A, E**

**Section:**

**QUESTION 27**

What are the three Cluster API providers being used in VMware Tanzu Kubernetes Grid? (Choose three.)

- A. CAPI
- B. CAPz
- C. CAPM
- D. CAP
- E. CAPV
- F. CAPA

**Correct Answer: B, E, F**

**Section:**

**QUESTION 28**

What project does Contour leverage for the data plane?

- A. NSX Load Balancer
- B. Istio
- C. Envoy
- D. Prometheus

**Correct Answer: C**

**Section:**





**QUESTION 29**

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**

**Section:**

**QUESTION 30**

Which Kubernetes object must be used to be able to upgrade a pod without disrupting services?

- A. ReplicaSet
- B. Service
- C. Container
- D. Deployment

**Correct Answer: D**

**Section:**

**QUESTION 31**

Which statement about Tanzu Mission Control policies is correct?

- A. Policies can be configured using a tag selector to restrict the scope of the policy.
- B. Policies can only be applied to cluster groups.
- C. Policies allow management and operation of the security posture of Kubernetes clusters, and other organizational objects.
- D. Policies can be enforced using Kubernetes resources (NetworkPolicy, ResourceQuota etc) or using the Kyverno admission controller.

**Correct Answer: A**

**Section:**

**QUESTION 32**

Which two StorageClass objects are supported by the VMware Tanzu Kubernetes Grid? (Choose two.)

- A. Azure Glacier
- B. vSphere Cloud Native Storage (CNS)
- C. Linux Remote File Services
- D. Samba
- E. Amazon EBS

**Correct Answer: B, E**

**Section:**

**QUESTION 33**

Which is a prerequisite for cert-manager installation?



- A. Download the latest Tanzu Kubernetes Grid OVAs for the OS and Kubernetes version
- B. Obtain the admin credentials of the target workload cluster
- C. Run the canzu login command to see an interactive list of management clusters
- D. After importing the cert-manager OVA, a conversion into virtual machine template must be performed

**Correct Answer: B**

**Section:**

#### QUESTION 34

Which tool can be used to backup and restore workloads on clusters provisioned by the VMware Tanzu Kubernetes Grid Service?

- A. Site Recovery Manager
- B. Restic
- C. VMware vSphere Data Protection
- D. Velero Plugin for VMware vSphere

**Correct Answer: D**

**Section:**

#### QUESTION 35

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: B, D**

**Section:**

#### QUESTION 36

Which steps are required to create a vSphere Namespace?

- A. In the vSphere web client, select Supervisor, select Namespaces tab. and click Create Namespace
- B. Create the Namespace using the Tanzu CLI
- C. In the vSphere web client, select Workload Management, select Namespaces tab. and click Create Namespace
- D. In the vSphere web client, select Supervisor, select Workload, select Namespaces tab. and click Create Namespace

**Correct Answer: C**

**Section:**

#### QUESTION 37

Which statement describes Harbor?

- A. Harbor requires that all images are pulled from GitHub and is used for image validation and verification.



- B. Harbor formerly known as Bitnami, is an image catalog used for downloading verified open source packages.
- C. Harbor is an open source registry that secures artifacts with policies and role-based access control, ensures images are scanned and free from vulnerabilities, and signs images as trusted.
- D. Harbor is an image scanner used to verify that images are free from known vulnerabilities and patches as necessary.

**Correct Answer: C**

**Section:**

#### QUESTION 38

Which command has a valid syntax for scaling VMware Tanzu Kubernetes Grid cluster using Tanzu CLI?

- A. `tanzu cluster scale <cluster_name> --controlplane 5 --worker 10 --namespace=<my_namespace>`
- B. `tanzu cluster scale <cluster_name> --controlplane-machine-count 5 --worker-machine-count 10`
- C. `tanzu scale <cluster_name> --controlplane-machine-count 5 --worker-machine-count 10 --namespace=<my_namespace>`
- D. `tanzu scale <cluster_name> --controlplane 5 ---worker 10`

**Correct Answer: A**

**Section:**

#### QUESTION 39

What steps are required to deploy an application to a Kubernetes cluster using VMware Tanzu Mission Control (TMC) catalog?

- A. From the TMC Console, in Catalog, select the package to install, select Install Package
- B. From the TMC Console, in Catalog, from Available Tanzu Packages, specify the target cluster and the package to install
- C. Using the Tanzu CLI, enter the command `tanzu package install`
- D. Using the TMC CLI, enter the command `tmc cluster tanzupackage create`

**Correct Answer: A**

**Section:**

#### QUESTION 40

Which Kubernetes object controls what traffic is allowed to and from selected pods and network endpoints?

- A. Ingress
- B. NetworkPolicy
- C. PodSecurityPolicy
- D. Secret

**Correct Answer: D**

**Section:**

#### QUESTION 41

Which three can be configured in a VM Class in VMware vSphere with Tanzu? (Choose three.)

- A. Network
- B. Operating system
- C. CPU
- D. Memory

- E. PCI devices
- F. Storage

**Correct Answer: C, D, F**

**Section:**

**QUESTION 42**

Which statement describes a Container Storage Interface (CSI) in VMware Tanzu Kubernetes Grid?

- A. It is a plug-in that only works with vSphere object storage.
- B. It is a plug-in that is only used for clusters which require cloud native storage.
- C. It is a plug-in that allows providers to expose storage as persistent storage.
- D. It is a plug-in that is required for ephemeral storage.

**Correct Answer: C**

**Section:**

**QUESTION 43**

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: A, C, E, F**

**Section:**

**QUESTION 44**

What is the key benefit of Tanzu Service Mesh Autoscaler feature?

- A. Autoscale microservices
- B. Autoscale persistent volumes
- C. Autoscale Supervisor control plane VMs
- D. Autoscale Tanzu Kubernetes Grid cluster

**Correct Answer: A**

**Section:**

**QUESTION 45**

Which VMware product UI allows browsing Global Namespace Topology?

- A. NSX Advanced Load Balancer
- B. NSX



- C. Tanzu Service Mesh Advanced
- D. Tanzu Mission Control

**Correct Answer: C**

**Section:**

**QUESTION 46**

What Kubernetes objects are vSphere with Tanzu storage policies converted to?

- A. Quota policies
- B. Storage classes
- C. Persistent volumes
- D. Storage claims

**Correct Answer: B**

**Section:**

**QUESTION 47**

Which statement describes a Global Namespace in VMware Tanzu Service Mesh?

- A. Apply a single policy to multiple namespaces across multiple clusters.
- B. Automatic placement of the workload to any global cluster based on traffic demand.
- C. Define an application boundary and provides consistent traffic routing, connectivity, resiliency, and security for applications across multiple clusters.
- D. Provide distributed ingress and egress services to support multiple namespaces across multiple clusters.

**Correct Answer: C**

**Section:**