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VMware 2V0-71.21

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QUESTION NO: 1

Which two inspections are supported in Tanzu Mission Control? (Choose two.)

- A. Vulnerability Inspection
- B. SAST Inspection
- C. CIS Benchmark Inspection
- D. Security Inspection
- E. Conformance Inspection

ANSWER: C E**Explanation:**

Reference: <https://docs.vmware.com/en/VMware-Tanzu-Mission-Control/services/tanzumc-concepts/GUID-1BB98612-A9BF-494C-8446-1DB2E80BF5F9.html>

QUESTION NO: 2

Which tool is required to install extensions in Tanzu Kubernetes Grid clusters?

- A. k9s
- B. kubectx
- C. knative
- D. ytt

ANSWER: D**Explanation:**

Reference: <https://docs.vmware.com/en/VMware-Tanzu-Kubernetes-Grid/1.2/vmware-tanzu-kubernetes-grid-12/GUID-extensions-index.html>

QUESTION NO: 3

To configure a cluster with user authentication in Tanzu Kubernetes Grid (TKG), which options are needed to deploy Dex on a management cluster running on vSphere? (Choose two.)

- A. Dex with Local Authentication

- B. Dex with Active Directory
- C. Dex with OpenLDAP
- D. Dex with OIDC
- E. Dex with LDAP

ANSWER: D E

Explanation:

Reference: <https://docs.vmware.com/en/VMware-Tanzu-Kubernetes-Grid/1.2/vmware-tanzu-kubernetes-grid-12/GUID-extensions-deploy-auth-cluster.html>

Procedure

This procedure applies to deploying authentication-enabled Tanzu Kubernetes clusters to management clusters that are running on vSphere, Amazon EC2, or Azure.

1. Make sure that `kubectl` is still set to the context of the management cluster on which you deployed Dex.

```
kubectl config use-context auth-mgmt-cluster-admin@auth-mgmt-cluster
```

2. Set one of the following environment variables, depending on whether your management cluster is running on vSphere, Amazon EC2 or Azure.

On Windows platforms, use the `SET` command instead of `export`.

vSphere:

```
export OIDC_ISSUER_URL=https://<MGMT_CLUSTER_IP>:30167
```

QUESTION NO: 4

Which upgrade method can be used for an 'in-place' Kubernetes update?

- A. Run "kubectl patch" command against a Tanzu Kubernetes cluster
- B. Change the VirtualMachineClass on a Tanzu Kubernetes cluster
- C. Change the number of control plane nodes
- D. Change the StorageClass on a Tanzu Kubernetes cluster

ANSWER: A

Explanation:

Reference: <https://docs.vmware.com/en/VMware-vSphere/7.0/vmware-vsphere-with-tanzu/GUID-DF2B3886-4BE0-4E88-B549-DC9C1C653FDB.html>

Tanzu Kubernetes Cluster Update Requirements

Read the release notes before you perform a Tanzu Kubernetes cluster update.

To update Tanzu Kubernetes clusters, first perform a vSphere Namespaces update. When you perform a vSphere Namespace update, all Tanzu Kubernetes clusters must be in a running state. See Update the Supervisor Cluster by Performing a vSphere Namespaces Update.

The Kubernetes software version is a string in the cluster manifest that is semantic version notation. For example, if the version is `1.18.5`, "1" is the major version, "18" is the minor version, and "5" is the patch version.

QUESTION NO: 5

Which command is used to upgrade a Tanzu Kubernetes Grid Cluster (TKG) to a different kubernetes version?

- A. `tkg cluster upgrade --k8s-version`
- B. `tkg upgrade cluster --kubernetes-version`
- C. `tkg cluster upgrade --kubernetes-version`
- D. `tkg upgrade cluster --version`

ANSWER: B**Explanation:**

Reference: <https://docs.vmware.com/en/VMware-Tanzu-Kubernetes-Grid/1.2/vmware-tanzu-kubernetes-grid-12/GUID-upgrade-tkg-workload-clusters.html>

Prerequisites

- You performed the steps in Upgrading Tanzu Kubernetes Grid.
- You performed the steps in Upgrade Management Clusters to upgrade the management cluster that manages the Tanzu Kubernetes clusters that you want to upgrade.
- If you are upgrading clusters that run on vSphere, before you can upgrade clusters to a non-default version of Kubernetes for your version of Tanzu Kubernetes Grid, the appropriate base OS template OVAs must be available in vSphere as VM templates. For information about importing base OVA files into vSphere, see Prepare to Upgrade Clusters on vSphere.
- If you are upgrading clusters that run on Amazon EC2, the Amazon Linux 2 Amazon Machine Images (AMI) that include the supported Kubernetes versions are publicly available to all Amazon EC2 users, in all supported AWS regions. Tanzu Kubernetes Grid automatically uses the appropriate AMI for the Kubernetes version that you specify during upgrade.

QUESTION NO: 6

A Tanzu Mission Control administrator would like to enforce the following container controls:

- Require Digest.
- Name-Tag Allowlist.

To which type of policies do these controls belong to?

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

ANSWER: B

Explanation:

Reference: <https://docs.vmware.com/en/VMware-Tanzu-Mission-Control/services/tanzumc-using.pdf> (104)

QUESTION NO: 7

What is the default authentication implemented in Tanzu Kubernetes Grid?

- A. Keycloak
- B. Vault
- C. Dex & Gangway
- D. kube-oidc-proxy

ANSWER: B

Explanation:

Reference: <https://www.vaultproject.io/docs/auth/kubernetes>

Via the CLI

The default path is `/kubernetes` . If this auth method was enabled at a different path, specify `-path=/my-path` in the CLI.

```
$ vault write auth/kubernetes/login role=demo jwt=...
```

Copy 

Via the API

The default endpoint is `auth/kubernetes/login` . If this auth method was enabled at a different path, use that value instead of `kubernetes` .

QUESTION NO: 8

What are the infrastructure services prerequisites to enable Tanzu in vSphere? (Choose all that apply.)

- A. DHCP
- B. Active directory
- C. Firewall
- D. DNS
- E. NTP

ANSWER: A D E

Explanation:

Reference: <https://docs.vmware.com/en/VMware-vSphere/7.0/vmware-vmware-with-tanzu/GUID-B1388E77-2EEC-41E2-8681-5AE549D50C77.html>

Configuration Limits for vSphere with Tanzu Clusters

VMware provides configuration limits in the VMware Configuration Maximums tool.

For configuration limits specific to vSphere with Tanzu, including Supervisor Clusters and Tanzu Kubernetes clusters, select **vSphere > vSphere 7.0 > vSphere with Kubernetes > VMware Tanzu Kubernetes Grid Service for vSphere** and click **View Limits**, or follow this link.

Requirements for a Management, Edge, and Workload Domain Cluster

You can deploy vSphere with Tanzu with combined management, Edge, and workload management functions on a single vSphere cluster.

QUESTION NO: 9

What are two ClusterAPI providers being used in Tanzu Kubernetes Grid? (Choose two.)

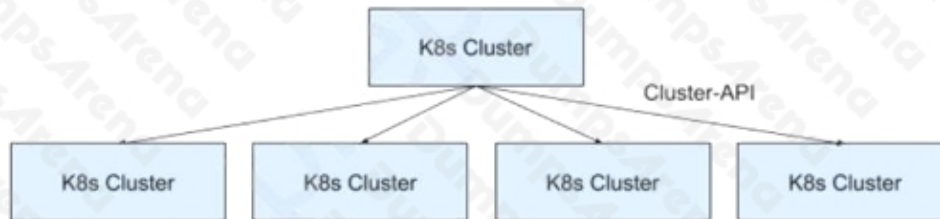
- A. CAPZ
- B. CAPA
- C. CAP
- D. CAPW
- E. CAPV

ANSWER: A B

Explanation:

Reference: <https://tanzu.vmware.com/content/blog/taking-kubernetes-to-the-people-how-cluster-api-promotes-self-service-infrastructure>

Two **key goals of Cluster API** are to manage the full lifecycle of a Kubernetes cluster, including scaling up and scaling down the cluster, and to give infrastructure providers a common framework to build against so that everyone can have a common workflow irrespective of where they intend to consume CPUs, memory, or network resources. That's easier said than done, of course, so here comes the first thing to get your head around—with Cluster API, Kubernetes clusters are provisioned, scaled, and de-provisioned by an external Kubernetes cluster. It is, in effect, turtles all the way down.

**QUESTION NO: 10**

Which two roles are required to attach clusters in Tanzu Mission Control? (Choose two.)

- A. cluster.attach.admin
- B. clustergroup.attach.admin
- C. clustergroup.edit
- D. clusters.admin
- E. cluster.admin

ANSWER: C E**Explanation:**

Reference: <https://docs.vmware.com/en/VMware-Tanzu-Mission-Control/services/tanzumc-using.pdf>