

VMware

Exam Questions 2V0-71.21

Professional VMware Application Modernization



NEW QUESTION 1

Which is the correct option to forward logs from Tanzu Kubernetes Grid clusters to Elastic, Kafka, Splunk or an HTTP endpoint?

- A. No action is require
- B. Tanzu Kubernetes Grid automatically forwards the logfiles to syslog.
- C. Use the kubect! get logs command to forward the logs
- D. Deploy the fluent bit plugin to vRealize Log Insight
- E. Deploy Fluent Bit to forward the logs

Answer: D

Explanation:

Reference: <https://docs.vmware.com/en/VMware-vSphere/7.0/vmware-vsphere-with-tanzu/GUID-08DE295D-0327-4FED-804C-FC35EBFBE254.html>

Deploy and Manage the TKG Extension for Fluent Bit Logging



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 Updated on 09/20/2021

Fluent Bit is a fast, lightweight log processor and forwarder that lets you collect application data and logs from different sources, unify them, and send them to multiple destinations. Deploy the TKG Extension for Fluent Bit to collect and forward Tanzu Kubernetes cluster logs to your destination of choice.

Extension Prerequisites

This topic describes how to deploy the TKG Extension v1.3.1 for Fluent Bit. Adhere to the following requirements before deploying the extension.

NEW QUESTION 2

What command would an administrator use to upgrade the Tanzu Management Cluster?

- A. apt-get install -y kubeadm
- B. tkg management-upgrade
- C. tanzu-upgrade-mgt
- D. tkg upgrade management-cluster

Answer: D

Explanation:

Reference: <https://vmtechie.blog/2020/06/17/upgrade-tanzu-kubernetes-grid/>

Upgrade Tanzu Kubernetes Grid

Tanzu Kubernetes Grid make it very simple to upgrade Kubernetes clusters , without impacting availability of control plane and also ensures rolling update for worker nodes.we just need to run two commands to upgrade Tanzu Kubernetes Grid: "tkg upgrade management-cluster" and tkg upgrade cluster CLI commands to upgrade clusters that we deployed with Tanzu Kubernetes Grid 1.0.0. In this blog post we will upgrade Tanzu Kubernetes Grid from version 1.0.0 to 1.1.0

Pre-Requisite

In this post we are going to upgrade TKG from version 1.0.0 to version 1.1.0 and to start upgrading we need to download the new versions of "TKG" client cli , Base OS Image Template and API server load balancer.

NEW QUESTION 3

What does an administrator need to install to attach a Kubernetes cluster to Tanzu Mission Control (TMC)?

- A. TMC service
- B. The agent is already installed
- C. Cluster agent extensions
- D. TMC agent pack

Answer: C

Explanation:

Reference: <https://docs.vmware.com/en/VMware-Tanzu-Mission-Control/services/tanzumc-using/GUID-6DF2CE3E-DD07-499B-BC5E-6B3B2E02A070.html>

Attach a Cluster



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 Updated on 09/20/2021

Attach an existing cluster to your organization using the Tanzu Mission Control console.

To attach a cluster you run a set of extensions on the cluster and associate it with a cluster group in Tanzu Mission Control.

Prerequisites

You use both the Tanzu Mission Control console and the Kubernetes CLI to attach a cluster.

- Open a browser and log in to the Tanzu Mission Control console.

NEW QUESTION 4

What is the advantage of connecting the Tanzu Kubernetes Grid (TKG) CLI to a vSphere with Tanzu Supervisor Cluster?

- A. Tanzu Kubernetes clusters can be managed with vCenter Server Graphical User Interface console.
- B. Kubernetes objects can be created via vCenter Server VAMI interface.
- C. Tanzu Kubernetes clusters can be managed with ESXi Host Client.
- D. Tanzu Kubernetes clusters can be deployed to vSphere with Tanzu and manage their lifecycle directly from the TKG CLI.

Answer: D

Explanation:

Reference: <https://docs.vmware.com/en/VMware-Tanzu-Kubernetes-Grid/1.2/vmware-tanzu-kubernetes-grid-12/GUID-tanzu-k8s-clusters-connect-vsphere7.html>

You can connect the Tanzu Kubernetes Grid CLI to a vSphere with Tanzu Supervisor Cluster that is running in a vSphere 7 instance. In this way, you can deploy Tanzu Kubernetes clusters to vSphere with Tanzu and manage their lifecycle directly from the Tanzu Kubernetes Grid CLI.

vSphere with Tanzu provides a vSphere Plugin for `kubect1`. The vSphere Plugin for `kubect1` extends the standard `kubect1` commands so that you can connect to the Supervisor Cluster from `kubect1` by using vCenter Single Sign-On credentials. Once you have installed the vSphere Plugin for `kubect1`, you can connect the Tanzu Kubernetes Grid CLI to the Supervisor Cluster. Then, you can use the Tanzu Kubernetes Grid CLI to deploy and manage Tanzu Kubernetes clusters running in vSphere.

NOTE: On VMware Cloud on AWS and Azure VMware Solution, you cannot create a Supervisor Cluster, and need to deploy a management cluster to run `tkg` commands.

NEW QUESTION 5

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=...
```

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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` .

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NEW QUESTION 6

How are Tanzu Kubernetes clusters upgraded?

- A. Deploy a new cluster with upgraded Kubernetes release
- B. Rolling upgrades
- C. Clusters are only upgraded offline
- D. In-place upgrade for each node

Answer: B

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.

When upgrading the Kubernetes version for an existing Tanzu Kubernetes cluster, observe the following requirements:

NEW QUESTION 7

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: CE

Explanation:

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

NEW QUESTION 8

Which access policy control is used in Tanzu Mission Control?

- A. vCenter Server access control
- B. Attribute-based access control
- C. Role-based access control
- D. Active Directory access control

Answer: C

Explanation:

Reference: <https://docs.vmware.com/en/VMware-Tanzu-Mission-Control/services/tanzumc-concepts.pdf> (8)

NEW QUESTION 9

Which log file can be used for troubleshooting when there is a problem with Workload Control Plane (WCP) deployment?

- A. wcpsvc.log
- B. webssso.log
- C. vpxd.log
- D. sps.log

Answer: A

Explanation:

Reference: <https://docs.vmware.com/en/VMware-vSphere/7.0/vmware-vsphere-with-tanzu/GUID-F7B30D53-A839-40D9-8D8C-2262AAA5BAD0.html>

Solution

1. Establish an SSH connection to the vCenter Server Appliance.
2. Log in as the `root` user.
3. Run the command `shell`.

You see the following:

```
Shell access is granted to root
root@localhost [ ~ ]#
```

4. Run the following command to tail the log.

```
tail -f /var/log/vmware/wcp/wcpsvc.log
```

NEW QUESTION 10

Refer to the exhibit.

```
root@photon-client [ ~ ] # kubectl get deployment
NAME          READY    UP-TO-DATE    AVAILABLE    AGE
nginx-d       0/2      0             0            75m
root@photon-client [ ~ ] # kubectl get replicaset
NAME          DESIRED    CURRENT    READY    AGE
nginx-d-66b6c48dd  2         0         0        75m
root@photon-client [ ~ ] #
```

A developer deployed nginx with 2 replicas on a new Tanzu Kubernetes Grid cluster, but the deployment did not move to a ready state. What is the next step to troubleshoot?

- A. kubectl describe pods
- B. kubectl describe replicaset
- C. kubectl get pods
- D. kubectl get errors

Answer: A

Explanation:

Reference: https://docs.hol.vmware.com/HOL-2021/hol-2113-01-sdc_html_en/

NEW QUESTION 10

Refer to the exhibit.

```
File: nginx-service.yaml
1  apiVersion: v1
2  kind: Service
3  metadata:
4    labels:
5      app: nginx
6    name: nginx
7    namespace: default
8  spec:
9    ports:
10   - port: 80
11     protocol: TCP
12     targetPort: 80
13   selector:
14     app: nginx
15 ~  type: ClusterIP
```

Which two options can be modified in order to expose nginx app using Ingress Controller? (Choose two.)

- A. Change type to IngressController
- B. Change type to LoadBalancer
- C. Change type to NodePort
- D. Change type to HostPort
- E. Change type to AntreaCni

Answer: AD

NEW QUESTION 11

What is the definition of Tanzu Kubernetes Grid Instance?

- A. Management cluster and Tanzu Kubernetes clusters
- B. Management cluster and Tanzu Operations
- C. Management cluster and Tanzu Build Service
- D. Management cluster and kubeadm

Answer: A

Explanation:

Reference: <https://docs.vmware.com/en/VMware-Tanzu-Kubernetes-Grid/1.0/vmware-tanzu-kubernetes-grid-10/GUID-tkg-concepts.html>

NEW QUESTION 15

Which tools are required to be installed on your local machine before installing TKG extensions?

- A. kapp, kbld, ytt
- B. ytt, kubens, jq, whoami
- C. kbld, kapp, jq
- D. ytt, yq, certgen, openssl

Answer: A

Explanation:

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

Tanzu Kubernetes Grid includes binaries for tools that provide in-cluster and shared services to the clusters running in your Tanzu Kubernetes Grid instance. All of the provided binaries and container images are built and signed by VMware.

You can add functionalities to Tanzu Kubernetes clusters by installing extensions to different cluster locations as follows:

Function	Extension	Location	Procedure
Ingress Control	Contour	Tanzu Kubernetes cluster	Implementing Ingress Control with Contour
Log Forwarding	Fluent Bit	Tanzu Kubernetes	Implementing Log Forwarding

NEW QUESTION 19

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