VMware

Exam Questions 2V0-71.21

Professional VMware Application Modernization

NEW QUESTION 1
Refer to the exhibit.

```
apiVersion: storage.k8s.io/v1
kind: StorageClass
metadata:
  name: standard
provisioner: kubernetes.io/aws-ebs
parameters:
  type: gp2
reclaimPolicy: Retain
allowVolumeExpansion: true
mountOptions:
  - debug
volumeBindingMode: Immediate
```

In the following StorageClass manifest, which field is used to specify the Volume Plugin driver used for underlying storage array?

A. type
B. name
C. parameters
D. provisioner

Answer: D

Explanation:
Reference: https://support.purestorage.com/Solutions/VMware_Platform_Guide/User_Guides_for_VMware_Solutions/VMware_Tanzu_User_Guide/Tanzu_User_Guide%3A__vVols_Usage

VMware Tanzu Overview and Prerequisites for Usage with Pure Storage

Using VMware vVols and VMFS within the Tanzu ecosystem combines VMware's premier technologies in powerful and important ways. While a key benefit of containers themselves is that they are efficient and can run on pretty much any infrastructure anywhere - a core requirement for them to be useful is the ability to generate, retain and re-use persistent application data on individual volumes. That requirement is what makes vVols in particular a perfect storage option to use with Tanzu. As a single data vVol maps to a persistent volume (PV) within Tanzu, devops users and vSphere administrators now have a simple and granular storage choice for matching persistent data to its corresponding Kubernetes cluster. This KB article will step through some of the core storage concepts with Tanzu, and show how they map and are used against the Pure Storage FlashArray.

NEW QUESTION 2
Which option of Tanzu Mission Control is used to manage namespaces within and across clusters?

A. Workspaces
B. Workhome
C. Workloads
D. Workgroup

Answer: A

Explanation:
Reference:https://docs.vmware.com/en/VMware-Tanzu-Mission-Control/services/tanzumc-concepts.pdf (6)

NEW QUESTION 3
Under Menu, which section to enable Tanzu Kubernetes Cluster in VMware vSphere for Tanzu on vSphere Client?

A. VMs and Templates
B. Hosts and Cluster
C. Workload Management
D. Content Libraries

Answer: C

Explanation:
Reference: https://docs.vmware.com/en/VMware-vSphere/7.0/rn/vsphere-esxi-vcenter-server-7-vsphere-with-tanzu-release-notes.html

NEW QUESTION 4
Choose two supported functionalities when enabling Workload Management with a VMware vSphere Distributed Switch?
(Choose two.)

A. NSX Advanced Load Balancer
B. NSX Load Balancer
C. Tanzu Kubernetes clusters
D. Embedded Harbor Registry
E. vSphere Pods

Answer: CD

Explanation:

Reference: https://docs.vmware.com/en/VMware-vSphere/7.0/vmware-vsphere-with-tanzu/GUID-EE236215-DA4D-4579-8BEB-A693D1882C77.html

Prerequisites for Configuring vSphere with Tanzu on a Cluster

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Updated on 09/14/2021

Check out the prerequisites for enabling vSphere with Tanzu in your vSphere environment. To run container-based workloads natively on vSphere, as a vSphere administrator you enable **Workload Management** on a vSphere cluster. The result is a Kubernetes management cluster known as a Supervisor Cluster where you run vSphere Pods, provision Tanzu Kubernetes clusters, and VMs.

Create and Configure a vSphere Cluster

A vSphere cluster is a collection of ESXi hosts managed by a vCenter Server system. The Supervisor Cluster runs on a vSphere cluster. Create a vSphere cluster that meets the

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=...                    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`.

NEW QUESTION 6
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: ADE

Explanation:
Reference: https://docs.vmware.com/en/VMware-vSphere/7.0/vmware-vsphere-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.

NEW QUESTION 7
A customer needs to use Kubernetes and wants to use networking solution, Antrea.
Which product from Tanzu portfolio should the customer use?

A. Tanzu Application Catalog
B. Tanzu Kubernetes Grid
C. Tanzu Mission Control
D. Tanzu Observability

Answer: B

Explanation:
Reference: https://serverascode.com/2020/05/02/tanzu-kubernetes-grid-antrea.html

Tanzu Kubernetes Grid

Tanzu Kubernetes Grid, otherwise known as TKG, is the underlying Kubernetes distribution for all of VMware's Kubernete based products. It's part of vSphere with Kubernetes. It's part of TKGI (what was once PKS). But it's not just a distribution…it's also a standalone lifecycle manager that heavily utilizes **Cluster API** to manage virtual machines on which Kubernetes runs.

I'm not going to get into how TKG works, other than to say one of the first things you do with TKG is to deploy a management cluster. That cluster is then used to manage the life cycle of many other k8s "workload" clusters.

Here's all the CRDs that are part of the management cluster.

```
$ k get crds | grep "machine/|vsphere\|cluster"
clusterinformations.crd.projectcalico.org          2020-04-21T19:03:46Z
clusterissuers.cert-manager.io                     2020-04-21T19:03:48Z
```

NEW QUESTION 8
What is a standard solution for a Kubernetes administrator to implement pod security?

A. iptables
B. Add check for validating YAML
C. OPA
D. Use trusted corporate repository

Answer: B

Explanation:
Reference: https://kubernetes.io/docs/concepts/policy/pod-security-policy/

NEW QUESTION 9
On VMware vSphere with Tanzu, which attribute identifies the etcd Leader node using the vSphere Client?
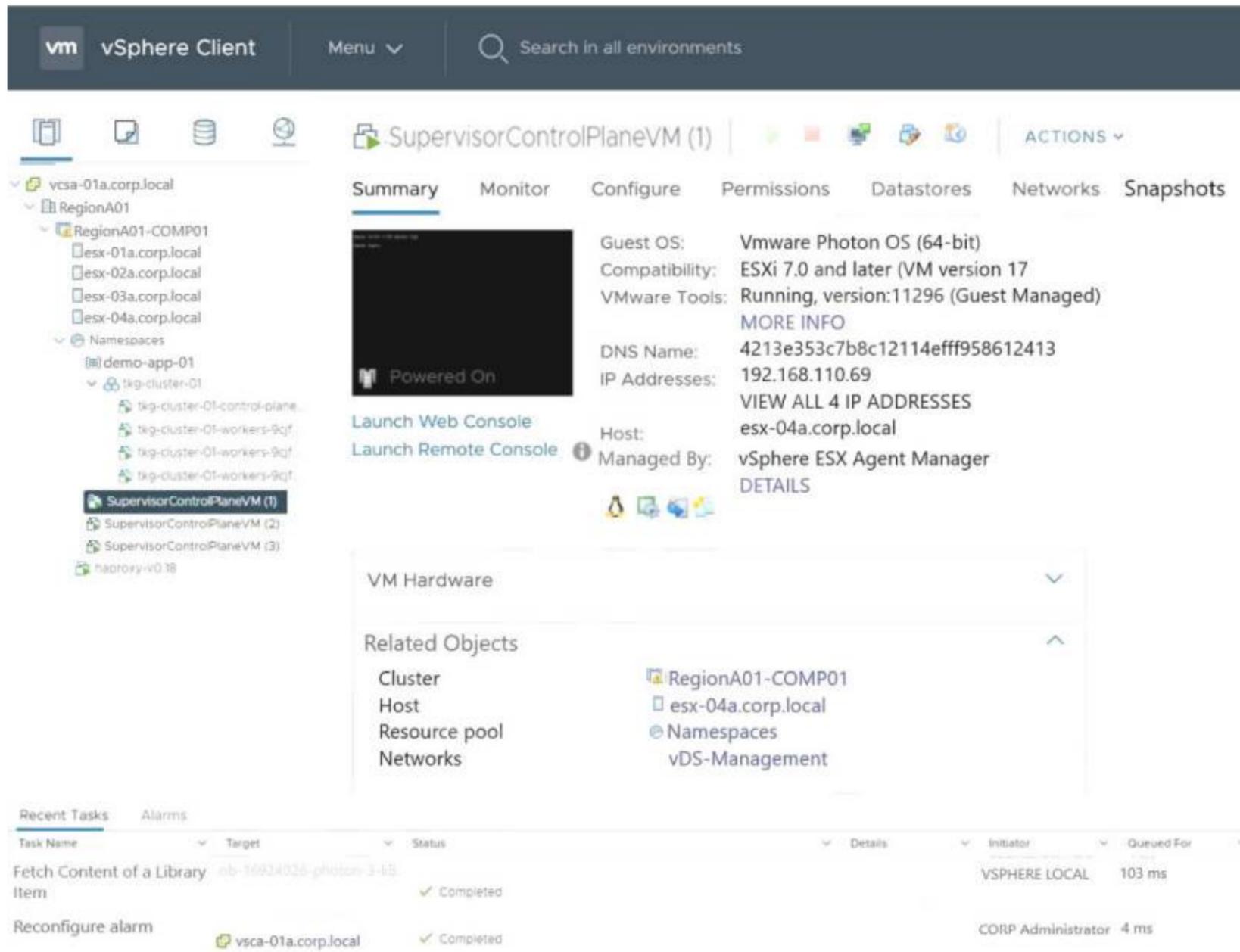
A. amount of memory resources
B. number of Networks
C. number of IP addresses
D. amount of compute resources

Answer: C

NEW QUESTION 10
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 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: CE

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

NEW QUESTION 15
How can an administrator collect a support bundle for Tanzu Kubernetes cluster (TKC)?

A. Collect with PowerCLI

B. Use TKC Support Bundler
C. Run command kubectl collect tkc support-bundle
D. Download from vCenter Server

Answer: B

Explanation:
Reference: https://docs.vmware.com/en/VMware-vSphere/7.0/vmware-vsphere-with-tanzu/GUID-6390E04F-E511-4DC9-B941-FDD0979F2A2A.html

NEW QUESTION 20
What role is used to run cluster inspection on Tanzu Mission Control console?

A. Cluster.edit role
B. Credential.admin role
C. Credential.view role
D. Create role

Answer: A

Explanation:
Reference: https://docs.vmware.com/en/VMware-Tanzu-Mission-Control/services/tanzumc-using/GUID-DA179B09-DF64-4651-B6E2-4551383BACD8.html

Start a Cluster Inspection

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📅 Updated on 11/15/2019

Intiate an inspection to verify the conformance of a cluster.

Cluster inspections in VMware Tanzu Mission Control are precofigured inspections that allow you to test the conformance of your clusters using Sonobuoy. For more information, see Cluster Inspections in *VMware Tanzu Mission Control Concepts*.

Prerequisites

This procedure assumes that you already have a cluster (either provisioned or attached) that you want to inspect for conformance.

NEW QUESTION 24
An architect is designing the infrastructure for multiple applications and needs to ensure isolation and control over resources and permissions assigned to each application team.
Which is the easiest and least expensive way to satisfy these requirements?

A. Use dedicated Supervisor Cluster per application
B. Use dedicated vSphere Namespace per application
C. Use dedicated vSphere Pod per application
D. Use dedicated Kubernetes Deployments per each application

Answer: B

Explanation:
The dedicated namspace per application ensure isolation and control over resources and permissions in each application team. Namespace is unique entity that is why it can be used to manage resources independently.

NEW QUESTION 27
What is the MINIMUM required version of vSphere to install Tanzu Kubernetes Grid?

A. 6.0 Update 1
B. 6.5 Update 2
C. 6.7 Update 1
D. 6.7 Update 3

Answer: D

Explanation:
Reference: https://www.msystechnologies.com/blog/how-to-deploy-tanzu-kubernetes-grid-cluster-on-vmware-vsphere-infrastructure-in-9-steps/

NEW QUESTION 32
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.

NEW QUESTION 36
Which is the correct statement describing the characteristic of a pod?

A. Pod is the smallest entity managed by Docker.
B. Pod can contain only one container.
C. Containers in a pod start and stop together.
D. Pod is deployed directly on the virtual machine.

Answer: C

Explanation:
Reference: https://kubernetes.io/docs/concepts/workloads/pods/

NEW QUESTION 40
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: DE

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
   ```

NEW QUESTION 43
What Kubernetes feature would be used to force the scheduler to place instances of the application on different nodes?

A. nodeAffinity/nodeAntiAffinity
B. nodeAuthorization
C. kubectl
D. namespaces

Answer: A

Explanation:
Reference: https://www.magalix.com/blog/influencing-kubernetes-scheduler-decisions
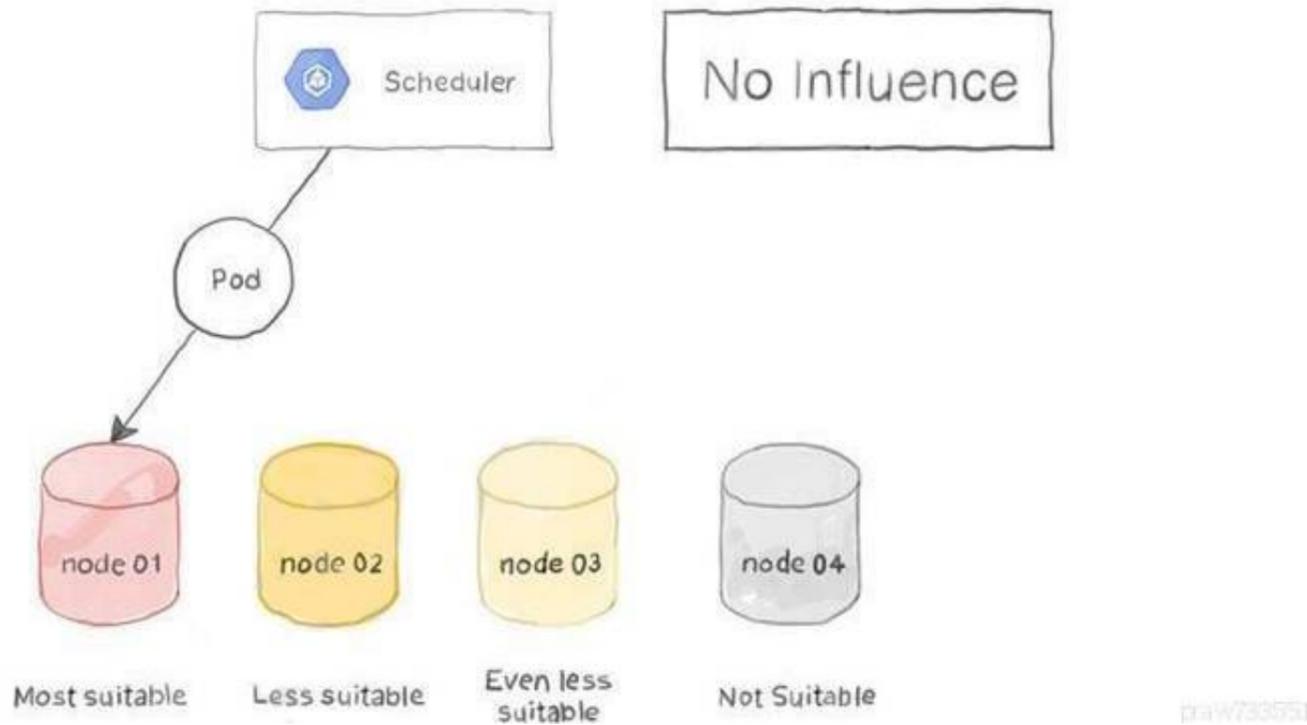
NEW QUESTION 46
How is the Tanzu Kubernetes Grid (TKG) management cluster created?

A. There is no need for a management cluster in Tanzu Kubernetes Grid.
B. The administrator creates the management cluster in vCenter.
C. Download the kubernetes management agent.
D. The TKG CLI creates a temporary bootstrap cluster.

Answer: D

Explanation:
Reference: https://docs.vmware.com/en/VMware-Tanzu-Kubernetes-Grid/1.2/vmware-tanzu-kubernetes-grid-12/GUID-mgmt-clusters-deploy-management-clusters.html

NEW QUESTION 47
What is the period of time to consider DISCONNECTED state for a cluster in Tanzu Mission Control?

A. 3 minutes
B. 1 minute
C. 2 minutes
D. 5 minutes

Answer: A

Explanation:
Reference: https://docs.vmware.com/en/VMware-Tanzu-Mission-Control/services/tanzumc-concepts.pdf (18)

NEW QUESTION 52
Which option provides a configuration blueprint to deploy Tanzu Kubernetes clusters?

A. Tanzu Kubernetes Cluster Spec
B. Tanzu Kubernetes Grid Installer
C. Tanzu ClusterAPI Provider
D. Tanzu Kubernetes Cluster Plan

Answer: D

Explanation:
Reference: https://docs.vmware.com/en/VMware-Tanzu-Kubernetes-Grid/1.4/vmware-tanzu-kubernetes-grid-14/GUID-tkg-concepts.html

NEW QUESTION 54
Which component can intercept requests to the Kubernetes API?

A. Network Policy
B. RBAC Authorization
C. Pod Security Policies
D. Admission Controllers

Answer: D

Explanation:
Explanation/Reference:
Reference: https://kubernetes.io/docs/reference/access-authn-authz/admission-controllers/

NEW QUESTION 58
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