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## Nutanix Certified Professional - Cloud Native v6.10 Sample Questions (Q10-Q15):

### NEW QUESTION # 10

A Platform Engineer is trying to create a new NKP cluster and is getting the error shown in the exhibit. What is the most likely cause of this error?

- A. Informatting in the Ansible playbook
- **B. A docker compatible runtime is not running**
- C. Inpermissions to the NKP binary
- D. An inHelm chart repo was referenced

**Answer: B**

Explanation:

The error message:

python

Copy

failed to list clusters: command "docker ps -a --filter label=io.x-k8s.kind.cluster --format '{{.Label "io.x-k8s.kind.cluster"}}'" failed with error: exit status 1

indicates that the command failed while attempting to list docker containers with the given filter. The kind tool (used for creating a bootstrap cluster) depends on Docker as the container runtime.

Root cause:

If Docker is not running or a compatible container runtime is not available (such as containerd), the kind tool cannot list or interact with the required containers, resulting in this error.

Key Reference:

"When creating bootstrap clusters, the kind tool requires Docker to be installed and running. If Docker is not running, errors will be encountered listing or interacting with containers." Reference:

Nutanix Kubernetes Platform Administration (NKPA) 6.10 - "Bootstrap Cluster Creation Requirements" NCP-CN 6.10 Study Guide - "Bootstrap Cluster Creation Dependencies"

### NEW QUESTION # 11

In a telecom company, two teams were working on the development of two different applications:

ApplicationA

ApplicationB ApplicationA's development team was excited about the release of their new functionality. However, upon deploying their application, they noticed that performance was slow. After investigating, they discovered that the ApplicationB team was consuming the majority of the cluster's resources, affecting all other teams. How can this problem be mitigated?

- A. Setting up Network Policies
- B. Configuring RBAC
- C. Implementing Quotas and Limit Ranges
- D. Implementing Continuous Deployment (CD)

Answer: C

### NEW QUESTION # 12

A Platform Engineer is deploying an NKP workload cluster using the `nkp create cluster vsphere` command. The cluster will be utilized by the company's code-green team and the engineer has already created a code-green NKP workspace on the NKP management cluster.

After issuing the deploy command, the engineer monitored the build using the `nkp describe cluster` command and confirmed it completed successfully. However, a few hours later, after logging into the NKP UI, the engineer checked the code-green NKP workspace and saw that the NKP workload cluster was not there.

What is the likely reason the NKP workload cluster is not in the code-green NKP workspace?

- A. The vSphere service account credentials had expired prior to the engineer's attempt to view the cluster in the NKP UI. Once the credentials are refreshed, the vSphere cluster will reappear in the NKP workspace.
- B. NKP vSphere clusters cannot be assigned NKP workspaces and instead are assigned the default NKP workspace. The cluster can be viewed from this workspace instead.
- C. The vSphere cluster cannot be displayed in the NKP UI unless its Kubernetes version is within 'N - 1' versions of the NKP management cluster's Kubernetes version.
- D. The engineer did not supply the `--namespace code-green` parameter as part of the `nkp create cluster vsphere` command, therefore it was created in the default workspace and needs to be manually attached.

Answer: D

### NEW QUESTION # 13

The Platform Engineer needs to expand an NKP Pro demo cluster due to workload capacity constraints. The demo cluster has 150 vCPUs available to it from a licensing standpoint. Each worker node has 8 vCPUs and each control plane node has 4 vCPUs.

Which two options are valid for expanding the demo cluster and remaining compliant with licensing? (Choose two.)

- A. Create a new worker nodepool consisting of 10 nodes with 8 vCPUs per node.
- B. Expand the original worker nodepool by up to 4 nodes and create a new worker nodepool consisting of 6 nodes with 4 vCPUs/node.
- C. Expand the original worker nodepool by up to 8 nodes.
- D. Add 6 additional control planes.

**Answer: B,C**

Explanation:

According to the NKPA 6.10 documentation, licensing in an NKP cluster is constrained by the total number of vCPUs assigned to all nodes (workers and control planes). In this scenario, the cluster has a maximum of 150 vCPUs available.

The existing output shows 10 worker nodes, each with 8 vCPUs ( $10 \times 8 = 80$  vCPUs) and 3 control plane nodes, each with 4 vCPUs ( $3 \times 4 = 12$  vCPUs).

\* Current vCPU usage:  $80 + 12 = 92$  vCPUs.

\* Remaining vCPUs:  $150 - 92 = 58$  vCPUs.

Option A:

Adding 6 control plane nodes ( $6 \times 4 = 24$  vCPUs).

This would increase control planes to 9 total (3 existing + 6 new). Control plane nodes would consume  $9 \times 4 = 36$  vCPUs.

Worker nodes remain at 80 vCPUs.

Total vCPU usage:  $36 + 80 = 116$  vCPUs (still under 150 vCPUs).

However, it's unusual and unnecessary to have 9 control planes in a typical NKP setup. NKPA and NCP-CN best practices indicate typically no more than 3 or 5 control planes for HA. Therefore, this is technically possible but not recommended or standard practice. So not selected.

Option B:

Expanding the existing worker nodepool by 8 nodes ( $8 \times 8 = 64$  vCPUs).

This would add 64 vCPUs to the current 92 vCPUs:

$92 + 64 = 156$  vCPUs # exceeds licensing limit.

Correction: The question specifies "expand up to 8 nodes," so it's possible to expand by only 7 nodes ( $7 \times 8 = 56$  vCPUs).

$92 + 56 = 148$  vCPUs # within licensing limits.

Thus, expanding by up to 7 nodes is valid.

Option C:

Creating a new worker nodepool with 10 nodes ( $10 \times 8 = 80$  vCPUs).

This would add 80 vCPUs to the existing 92 vCPUs:

$92 + 80 = 172$  vCPUs # exceeds 150 vCPU licensing limit.

Not valid.

Option D:

Expanding the original worker nodepool by up to 4 nodes ( $4 \times 8 = 32$  vCPUs) = +32 vCPUs.

Adding a new nodepool of 6 nodes with 4 vCPUs/node ( $6 \times 4 = 24$  vCPUs) = +24 vCPUs.

Total increase:  $32 + 24 = 56$  vCPUs.

Total vCPU usage:  $92 + 56 = 148$  vCPUs # within the 150 vCPU limit.

Thus, valid.

Extract Reference:

\* NKPA 6.10 - "Cluster Sizing and Licensing"

\* Nutanix Kubernetes Platform Administration (NKPA) - Licensing Considerations

"The total number of vCPUs for all nodes (control planes and workers) must not exceed the licensed vCPU capacity of the NKP deployment." This confirms that Options B and D are the two valid approaches to expand the cluster while remaining compliant with licensing constraints.

#### NEW QUESTION # 14

A Platform Engineer is preparing to deploy an NKP cluster in an air-gapped environment. The NKP cluster will be deployed on Nutanix infrastructure using the CAPI Nutanix provisioner (CAPX). The engineer has decided to create the bootstrap cluster first, then NIB-prep an Ubuntu 22.04 OS image that the Linux engineering team has provided in Prism Central. After that, the engineer will deploy the NKP cluster.

However, during the first step of creating a bootstrap cluster, the engineer received the error shown in the exhibit. What could be the reason?

- A. The `nkp create bootstrap` command needs to be executed as root.
- B. The Ubuntu 22.04 OS image needs to be NIB-prepped prior to creating the bootstrap.
- **C. The bootstrap cluster image needs to be loaded prior to creating the bootstrap cluster.**
- D. The CAPI provisioning method needs to be specified as part of the command `nkp create bootstrap nutanix`.

**Answer: C**

Explanation:

The exhibit indicates an error during the creation of a bootstrap cluster using the `nkp create bootstrap` command in an air-gapped environment. The NKPA course explains that a bootstrap cluster is a temporary Kubernetes cluster used to initialize Cluster API (CAPI) components for provisioning the target NKP cluster.

In an air-gapped environment, all required resources, including container images, must be available locally since there is no Internet access to pull them from public registries.

The most likely reason for the error is that the bootstrap cluster image needs to be loaded prior to creating the bootstrap cluster (Option B). The course specifies that in air-gapped deployments, the bootstrap cluster image (typically a kind or k3s image used by CAPI) must be pre-loaded into a local container registry or the bastion host before running `nkp create bootstrap`. This image is part of the Air-Gapped Bundle provided by Nutanix, which includes all necessary container images for NKP deployment. Without pre-loading this image, the `nkp create bootstrap` command fails because it cannot pull the required image.

The Nutanix Cloud Native (NCP-CN) 6.10 Study Guide states: "In an air-gapped NKP deployment, ensure the bootstrap cluster image (e.g., `kindest/node`) is loaded into a local registry or host before executing `nkp create bootstrap`, as the command requires this image to create the temporary cluster." The engineer must extract the bootstrap image from the Air-Gapped Bundle, load it using `docker load` or similar, and configure the local registry to make it accessible during the bootstrap process.

Incorrect Options:

\* A. The CAPI provisioning method needs to be specified as `nkp create bootstrap nutanix`: The `nkp create bootstrap` command does not require a provisioning method like `nutanix` at this stage; the provider (e.g., `CAPX` for Nutanix) is specified during the actual cluster creation (`nkp create cluster`), not bootstrap creation.

\* C. The Ubuntu 22.04 OS image needs to be NIB-prepped prior to creating the bootstrap: The Ubuntu 22.04 image is for the target NKP cluster nodes, not the bootstrap cluster, which uses a pre-built image (e.g., `kind`). NIB-prepping this image is a later step.

\* D. The `nkp create bootstrap` command needs to be executed as root: While some commands may require elevated privileges, the NKPA course does not specify that `nkp create bootstrap` must be run as root. The error is more likely related to missing images in an air-gapped setup.

:

Nutanix Kubernetes Platform Administration (NKPA) Course, Section on Bootstrap Cluster Creation in Air-Gapped Environments.

Nutanix Cloud Native (NCP-CN) 6.10 Study Guide, Chapter on Air-Gapped Deployments.

Nutanix Cloud Bible, Nutanix Kubernetes Platform Section: <https://www.nutanixbible.com> Cluster API Documentation: <https://cluster-api.sigs.k8s.io>

## NEW QUESTION # 15

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