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## Nutanix NCP-CN Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>• <b>Manage Building an NKP Cluster:</b> This section evaluates the skills of Kubernetes administrators and platform engineers in customizing and deploying NKP clusters. Candidates must show proficiency in tailoring cluster configurations to meet specific requirements and deploying Kommander, the management platform, while applying the appropriate licenses to enable cluster features and management capabilities.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>• <b>Perform Day 2 Operations:</b> This part assesses the expertise of site reliability engineers and cluster operators in ongoing cluster management tasks after deployment. It includes configuring authentication and authorization mechanisms, setting up logging systems, and implementing cluster backup and recovery procedures. Candidates also need to demonstrate skills in monitoring cluster performance and health, configuring autoscaling to handle workload changes, and performing lifecycle management functions such as upgrades and maintenance.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• <b>Prepare the Environment for an NKP Deployment:</b> This section of the exam measures the skills of infrastructure engineers and cloud administrators and covers the initial setup tasks needed for NKP deployment. Candidates must demonstrate the ability to seed a private container registry, create a bootstrap Kubernetes cluster, and determine license tiers suitable for clusters. They also need to prepare a bastion host for secure access, build machine images or prepare nodes for deployment, and gather all necessary information to build a cluster on the target cloud or on-premises provider.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• <b>Conduct NKP Fleet Management:</b> This section tests the abilities of platform administrators and cloud operations engineers in managing multiple clusters as a fleet. It focuses on configuring workspaces to organize clusters, deploying workload clusters within these workspaces, and attaching or detaching clusters as needed. Additionally, candidates must be able to configure projects for workload segmentation and manage platform applications that support the overall NKP environment.</li> </ul>

# Perfect Nutanix NCP-CN Exam Objectives Are Leading Materials & Useful NCP-CN: Nutanix Certified Professional - Cloud Native v6.10

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## Nutanix Certified Professional - Cloud Native v6.10 Sample Questions (Q19-Q24):

### NEW QUESTION # 19

Which option is enabled with the NKP Pro licensing tier?

- **A. Fleet Management**
- B. Insights
- C. Kubernetes Dashboard
- D. AI OPS

**Answer: A**

Explanation:

Comprehensive and Detailed Explanation:

The NKP Pro licensing tier includes Fleet Management, which enables centralized lifecycle management of multiple Kubernetes clusters. This feature is critical for managing larger environments, providing visibility and control over fleet-wide configurations and updates. Other features, like AI OPS and advanced observability, are typically associated with higher tiers (e.g., Ultimate).

References: Nutanix Licensing and Features Matrix

### NEW QUESTION # 20

A Platform Engineer manages an NKP environment and is preparing a machine image to become an NKP cluster node. Which statement is correct regarding the default node preparation process?

- A. Ansible is used to make the OS image CAPI-compliant for use as an NKP node.
- B. Terraform is utilized to clone an existing OS image for use as an NKP node.
- **C. Packer is used to make the OS image CAPI-compliant for use as an NKP node.**
- D. Goss is used to harden the OS image for use as an NKP node.

**Answer: C**

Explanation:

The NKPA course details the default node preparation process for NKP cluster nodes, which involves creating a machine image that is compliant with Cluster API (CAPI) standards. The primary tool used in this process is Packer, which automates the creation of machine images by provisioning a base OS image (e.g., Ubuntu or Rocky Linux) with the necessary components for Kubernetes, such as kubeadm, containerd, and other dependencies.

Packer ensures the image is CAPI-compliant by installing the required Kubernetes binaries, configuring the container runtime, and setting up networking and storage components. The Nutanix Cloud Native (NCP-CN)

6.10 Study Guide states: "In the default node preparation process for NKP, Packer is used to build a CAPI-compliant OS image, installing Kubernetes components and dependencies for use as an NKP node." This process is typically orchestrated by NKP Image Builder (NIB) or Kubernetes Image Builder (KIB), both of which rely on Packer for image creation.

Incorrect Options:

\* B. Ansible is used to make the OS image CAPI-compliant: Ansible is used by KIB/NIB to apply configurations during the Packer build process, but Packer is the primary tool for creating the image.

Ansible alone does not make the image CAPI-compliant.

\* C. Goss is used to harden the OS image: Goss is a validation tool that can be used for image hardening, but it is not part of the default NKP node preparation process. Hardening is an optional step.

\* D. Terraform is utilized to clone an existing OS image: Terraform is for infrastructure provisioning, not image creation or cloning. Packer handles image creation in NKP.

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Nutanix Kubernetes Platform Administration (NKPA) Course, Section on Node Preparation.  
Nutanix Cloud Native (NCP-CN) 6.10 Study Guide, Chapter on NKP Deployment Prerequisites.  
Nutanix Cloud Bible, NutanixKubernetesPlatform Section: <https://www.nutanixbible.com> Packer Documentation:  
<https://www.packer.io>

### NEW QUESTION # 21

A Platform Engineer is attempting to delete an attached cluster from the NKP UI, but it is stuck in a 'deleting' state and does not get removed. How can the engineer resolve this attempt to detach the cluster so that it is removed from the UI and no longer managed by NKP?

- A. Run the `nkp delete kommandercluster` command in the context of the NKP attached cluster.
- **B. Run the `kubectl delete kommandercluster` command in the context of the NKP management cluster.**
- C. Run the `nkp delete cluster` command in the context of the NKP attached cluster.
- D. Run the `kubectl delete cluster` command in the context of the NKP management cluster.

**Answer: B**

Explanation:

When an attached cluster (e.g., an external cluster like EKS) is stuck in a 'deleting' state in the NKP UI, it indicates an issue with the reconciliation process in the NKP management cluster. The NKPA course explains that attached clusters are represented in NKP as `KommanderCluster` custom resources in the management cluster. To resolve a stuck deletion, the engineer must manually delete the `KommanderCluster` resource using `kubectl` in the context of the NKP management cluster.

The correct command is `kubectl delete kommandercluster`, executed in the context of the NKP management cluster (not the attached cluster). For example: `kubectl delete kommandercluster <cluster-name> -n <namespace>`.

The Nutanix Cloud Native (NCP-CN) 6.10 Study Guide states: "If an attached cluster is stuck in a 'deleting' state, delete the corresponding `KommanderCluster` resource in the NKP management cluster using `kubectl delete kommandercluster` to remove it from management." This ensures the cluster is fully detached and removed from the UI.

Incorrect Options:

\* A. `kubectl delete cluster`: There is no cluster resource type in this context; the correct resource is `kommandercluster`.

\* B. `nkp delete kommandercluster`: The `nkp` CLI does not have a `delete kommandercluster` subcommand.

\* D. `nkp delete cluster` in the attached cluster: This command is for deleting NKP-managed clusters, not detaching external clusters, and it should be run from the management cluster context.

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Nutanix Kubernetes Platform Administration (NKPA) Course, Section on Fleet Management.

Nutanix Cloud Native (NCP-CN) 6.10 Study Guide, Chapter on Detaching Clusters.

Nutanix Cloud Bible, NutanixKubernetesPlatform Section: <https://www.nutanixbible.com>

### NEW QUESTION # 22

A Platform Engineer sees no insight in all workspaces, and it is a critical feature to control all the alerts on all company's Kubernetes clusters. What does the engineer need to do to begin generating NKP Insights?

- **A. Create a persistent volume claim and assign it to `nkp-insights`; this application requires volumes to save logs and data. Install `nkp-insights` with `nkp create appdeployment nkp-insights --app nkp-insights-1.2.2 --workspace kommander-workspace`**
- B. Acquire the NKP Insights Add-on license.
- C. Install `nkp-insights` in every Kubernetes cluster with `kubectl apply -f nkp-insights-1.2.2 --kubeconfig=<cluster>.conf`

**Answer: A**

### NEW QUESTION # 23

Refer to Exhibit:

Using an NKP Ultimate license, a Platform Engineer has created a new workspace and needs to create a new Kubernetes cluster within this workspace. However, the engineer discovers that the Create Cluster option is grayed out, as shown in the exhibit. How should the engineer resolve this issue?

- A. Create the cluster only using YAML and not the GUI.
- B. Ensure NKP is upgraded to a minimum version of 2.12.

- C. Attach existing clusters instead of creating a new cluster.
- **D. Create an Infrastructure provider for the workspace.**

**Answer: D**

Explanation:

The exhibit shows the NKP UI with the "Create Cluster" option grayed out in a new workspace, indicating that a prerequisite for cluster creation is missing. The NKPA course explains that to create a new Kubernetes cluster in a workspace, an Infrastructure Provider must be configured for that workspace. An Infrastructure Provider defines the underlying infrastructure (e.g., Nutanix AHV, AWS, vSphere) where the cluster will be provisioned, and without it, the Create Cluster option remains disabled in the UI. The NKP Ultimate license supports creating clusters across various infrastructures, but the workspace must be associated with an Infrastructure Provider to enable cluster creation. The Nutanix Cloud Native (NCP-CN)

6.10 Study Guide states: "Before creating a cluster in a new workspace, ensure an Infrastructure Provider is configured for the workspace in the NKP UI; otherwise, the Create Cluster option will be grayed out." The engineer should navigate to the Infrastructure Providers section in the NKP UI (typically under the Global or Administration view), create a provider (e.g., for Nutanix AHV, AWS, or vSphere), and associate it with the workspace. Once this is done, the Create Cluster option will become available.

Incorrect Options:

- \* A. Create the cluster only using YAML and not the GUI: The issue is not with the GUI itself but with the missing Infrastructure Provider, which affects both GUI and CLI cluster creation. YAML alone does not resolve this.
- \* B. Attach existing clusters instead of creating a new cluster: Attaching existing clusters is an alternative but does not address the requirement to create a new cluster.
- \* D. Ensure NKP is upgraded to a minimum version of 2.12: The NKP Ultimate license implies a recent version, and the course does not indicate that version 2.12 is specifically required for this functionality. The issue is configuration-related, not version-related.

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Nutanix Kubernetes Platform Administration (NKPA) Course, Section on Cluster Creation Prerequisites.

Nutanix Cloud Native (NCP-CN) 6.10 Study Guide, Chapter on Workspace Configuration.

Nutanix Cloud Bible, NutanixKubernetesPlatform Section: <https://www.nutanixbible.com>

## NEW QUESTION # 24

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