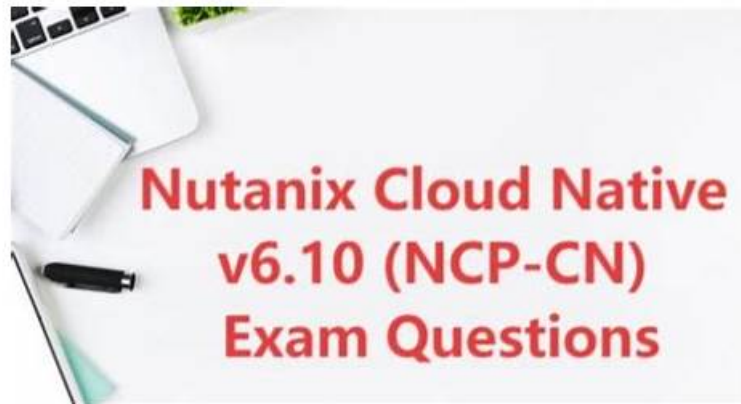


# Reliable NCP-CN Exam Answers - Free PDF NCP-CN - First-grade Nutanix Certified Professional - Cloud Native v6.10 Exam Flashcards



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## Nutanix NCP-CN Exam Syllabus Topics:

| Topic   | Details   |
|---------|---|
| Topic 1 | <ul style="list-style-type: none"><li>• Prepare the Environment for an NKP Deployment: 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 2 | <ul style="list-style-type: none"><li>• Manage Building an NKP Cluster: 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 3 | <ul style="list-style-type: none"><li>• Conduct NKP Fleet Management: 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>  |
| Topic 4 | <ul style="list-style-type: none"><li>• Perform Day 2 Operations: 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>   |

## NCP-CN Exam Flashcards, Latest NCP-CN Study Guide

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### Nutanix Certified Professional - Cloud Native v6.10 Sample Questions (Q39-Q44):

#### NEW QUESTION # 39

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

#### Answer: D

##### 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.

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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, NutanixKubernetesPlatform Section: <https://www.nutanixbible.com> Cluster API Documentation: <https://cluster-api.sigs.k8s.io>

#### NEW QUESTION # 40

Refer to the exhibits.

A Cloud Administrator had provisioned a Kubernetes cluster named demo that is no longer actively being used. A Quick review from the Systems Engineer confirms that the following VMs are part of the demo Kubernetes cluster

How should the demo cluster be properly deleted?

- A. Delete all the VMs and inform of the results.
- B. Run `acli vm.delete demo*` from a CVM.
- C. Run `kubectl config delete-cluster demo -n kommander-default-workspace` and delete the VMs.
- **D. Run `nkp delete cluster -c demo -n kommander-default-workspace`**

**Answer: D**

Explanation:

Comprehensive and Detailed Explanation:

The correct procedure for deleting an NKP cluster involves using the `nkp delete cluster` command with the appropriate cluster name and namespace. This ensures that not only the Kubernetes resources but also the corresponding NKP resources (e.g., nodepools, Kommander integration) are deleted cleanly and consistently.

Simply deleting the VMs does not clean up the associated NKP management objects. This approach is detailed in the NKP documentation for cluster lifecycle management, emphasizing the need to use the provided CLI commands for full removal.

References: NCP-CN-6.10 Course Material - Cluster Deletion Commands

#### NEW QUESTION # 41

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-prepare 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?

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- C. The `nkp create bootstrap` command needs to be executed as root.
- **D. The bootstrap cluster image needs to be loaded prior to creating the bootstrap cluster.**

**Answer: D**

#### NEW QUESTION # 42

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

**Answer: A**

Explanation:

The NKPA course addresses resource contention in Kubernetes clusters, where one application (e.g., ApplicationB) consumes excessive resources, impacting others (e.g., ApplicationA). To mitigate this, the course recommends implementing Quotas and Limit Ranges.

\* Resource Quotas restrict the total amount of CPU, memory, and other resources a namespace can consume, ensuring fair resource allocation across teams.

\* Limit Ranges set minimum and maximum resource limits for individual pods and containers within a namespace, preventing any single application from monopolizing resources.

The Nutanix Cloud Native (NCP-CN) 6.10 Study Guide states: "To prevent resource contention in NKP clusters, apply Resource Quotas to limit namespace resource usage and Limit Ranges to enforce pod and container resource boundaries." For example, the administrator can create a ResourceQuota to cap ApplicationB's namespace resource usage and a LimitRange to restrict its pod resource requests/limits, ensuring ApplicationA has sufficient resources.

Incorrect Options:

\* B. Setting up Network Policies: Network Policies control network traffic, not resource usage.

\* C. Configuring RBAC: RBAC manages access permissions, not resource allocation.

\* D. Implementing Continuous Deployment (CD): CD automates deployments but does not address resource contention.

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

Nutanix Cloud Native (NCP-CN) 6.10 Study Guide, Chapter on Day 2 Operations.

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

<https://kubernetes.io/docs/concepts/policy/resource-quotas>

### NEW QUESTION # 43

When deploying NKP using the Nutanix provisioning method (CAPX), what are the supported OS platforms?

- A. CentOS and Rocky Linux
- **B. Rocky Linux and Ubuntu**
- C. Flatcar, Rocky Linux, and Ubuntu
- D. CentOS and Ubuntu

**Answer: B**

### NEW QUESTION # 44

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There is no doubt they are clear-cut and easy to understand to fulfill your any confusion about the exam. Our Nutanix Certified Professional - Cloud Native v6.10 exam question is applicable to all kinds of exam candidates who eager to pass the exam. Last but not the least, they help our company develop brand image as well as help a great deal of exam candidates pass the exam with passing rate over 98 percent of our NCP-CN real exam materials. Considering many exam candidates are in a state of anguished mood to prepare for the Nutanix Certified Professional - Cloud Native v6.10 exam, our company made three versions of NCP-CN Real Exam materials to offer help. All these variants due to our customer-oriented tenets. As a responsible company over ten years, we are trustworthy. In the competitive economy, this company cannot remain in the business for long.

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