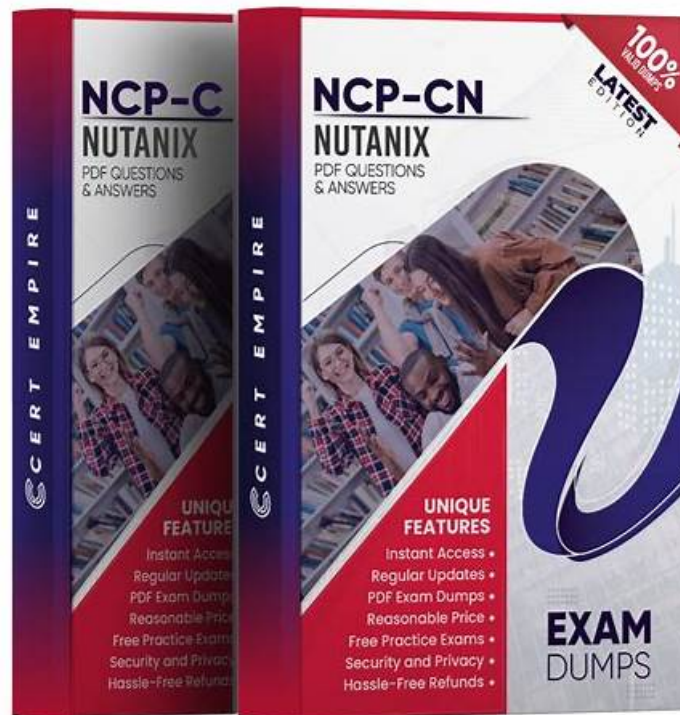


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## Nutanix NCP-CN Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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>
Topic 3	<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 4	<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>
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## Nutanix Certified Professional - Cloud Native v6.10 Sample Questions (Q105-Q110):

### NEW QUESTION # 105

A Cloud Engineer is deploying an NKP cluster into an AWS environment. By default, when deploying NKP on AWS infrastructure, it generates the supporting infrastructure necessary for the cluster (VPC, subnets, ELBs). However, the AWS team has insisted that the NKP cluster be deployed on existing AWS infrastructure. How can the engineer meet this requirement?

- A. When using the `nkp adopt infrastructure aws` command set, include the valid parameters with the pre-existing VPC, subnets, and ELB to use. Deploy the NKP cluster using the `nkp create cluster aws` command set.
- **B. Create an overrides file with the pre-existing VPC, subnets, and ELB to use. When using the `nkp create cluster aws` command set, include the overrides parameter with the overrides file that was created.**
- C. Create an NKP infrastructure provider for AWS in the NKP UI. When deploying the NKP cluster through the UI, specify the pre-existing VPC, subnets, and ELB to use in the appropriate fields of the 'Infrastructure' section of the Create Cluster page.
- D. When using the `nkp create cluster aws` command set, include the valid parameters with the pre-existing VPC, subnets, and ELB to use.

**Answer: B**

### NEW QUESTION # 106

A Platform Engineer is a member of an IT team that provides Kubernetes clusters for three groups within a company named Fin Group, Inc.:

Fin VD

Fin Insurance

Fin TravelThe engineer created workspaces for each group. Fin Group Inc. has its own Active Directory implementation, while each group uses their own Identity Provider. Now, the engineer needs to assign the Tenant Administrators role for each workspace. How will the engineer complete this task?

- A. Create a role named `admin-tenant-X`, where X is the name of the group, and assign that role to manage the corresponding workspace.
- **B. Configure a dedicated identity provider for each group to access their own workspace.**
- C. Configure the global Active Directory and assign a workspace admin user to each group.
- D. Create a role binding and assign it to manage the corresponding workspace.

**Answer: B**

### NEW QUESTION # 107

A Platform Engineer will be deploying an NKP cluster in a dark site with no Internet access. The Cloud Administrator has provided a Linux VM for this purpose, so the engineer needs to prepare this VM to be used as a bastion host. Which two actions should the engineer take to complete this task? (Choose two.)

- A. Install Docker.
- **B. Enable NTP Service.**
- **C. Get or create SSH Keys.**
- D. Install LDAP Server.

**Answer: B,C**

Explanation:

A bastion host in a dark site environment serves as a secure entry point for managing the NKP deployment, providing access to the cluster infrastructure without direct Internet connectivity. The NKPA course outlines the prerequisites for preparing a Linux VM as a bastion host, focusing on secure access and time synchronization, which are critical for air-gapped Kubernetes deployments.

\* Get or create SSH Keys (Option B): The bastion host requires SSH keys to enable secure, passwordless access to the NKP cluster nodes and other infrastructure components (e.g., Nutanix AHV hosts). The NKPA course specifies that SSH keys must be generated or obtained and configured on the bastion host to facilitate secure communication during deployment and management tasks. The Nutanix Cloud Native (NCP-CN) 6.10 Study Guide states: "For a bastion host in an NKP dark site deployment, ensure SSH keys are created or obtained to enable secure access to cluster nodes and infrastructure." The engineer can generate SSH keys using `ssh-keygen` and distribute the public key to the target systems.

\* Enable NTP Service (Option D): Time synchronization is essential in Kubernetes clusters to ensure consistent logging, certificate management, and scheduling. In a dark site with no Internet access, the bastion host must be configured to synchronize time with an internal NTP (Network Time Protocol) server or act as an NTP server itself. The NKPA course emphasizes enabling the NTP service on the bastion host to maintain accurate time across the air-gapped environment. The NCP-CN 6.10 Study Guide notes: "Enable the NTP service on the bastion host to ensure time synchronization in a dark site NKP deployment, as Kubernetes requires accurate time for proper operation." The engineer can enable NTP using commands like `systemctl enable ntpd` and configure it to use an internal time source.

Incorrect Options:

\* A. Install LDAP Server: LDAP is used for centralized authentication, but it is not a requirement for a bastion host in an NKP dark site deployment. The course focuses on SSH access instead.

\* C. Install Docker: While Docker is needed on Kubernetes nodes for container runtimes, the bastion host's role is to provide secure access and management, not to run containers.

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Nutanix Kubernetes Platform Administration (NKPA) Course, Section on Preparing for Dark Site Deployments.

Nutanix Cloud Native (NCP-CN) 6.10 Study Guide, Chapter on NKP Deployment Prerequisites.

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

## NEW QUESTION # 108

Some time ago, an EKS cluster was attached to be managed with NKP (Fleet Management). Now, a Platform Engineer has been asked to disconnect the EKS cluster from NKP for licensing reasons. After disconnecting the cluster, the developers realized that application changes are still being reflected in the EKS cluster, despite the fact that the EKS cluster was successfully detached from NKP. How should the engineer resolve this issue?

- A. Detached cluster must also be deleted from NKP: `nkp delete cluster -c detached-cluster-name`
- **B. Detached cluster's Flux installation must be manually disconnected from the management Git repository: `kubectl -n kommander-flux patch gitrepo management -p '{"spec":{"suspend":true}}' --type merge`**
- C. Forcefully detach EKS cluster: `nkp detach cluster -c detached-cluster-name --force`
- D. Developers must have some bad configuration in the deployment config files. Ask for revision or call AWS technical support.

**Answer: B**

## NEW QUESTION # 109

A Kubernetes administrator needs to deploy a new NKP deployment for a DR Datacenter. Cluster information:

AOS 6.10

Hypervisor is AHV

Six NX-8170-G9 Nodes Which command should the administrator use to invoke the prompt-based CLI deployment method?

- Answer: B**

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