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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>

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### Nutanix Certified Professional - Cloud Native v6.10 Sample Questions (Q89-Q94):

#### NEW QUESTION # 89

A Platform Engineer is preparing machine images for NKP through the NIB or KIB process. What is the purpose of doing this?

- A. Creating a custom user account for NKP admins to ensure access to NKP nodes
- **B. Creating a CAPI-compliant image for use as NKP cluster nodes**
- C. Tagging the image to be used specifically for NKP
- D. Hardening an OS image with client-supplied hardening scripts

**Answer: B**

#### NEW QUESTION # 90

A Platform Engineer would like to deploy an NKP Platform Application to all the clusters within an NKP workspace from the command line. What is the command set to use, and what parameters must be specified with it?

- A. The `nkp deploy app` command set would be utilized. The application ID, as well as the NKP workspace of the clusters, must be provided.
- B. The `nkp deploy platform-app` command set would be utilized. The application ID, as well as the NKP workspace of the clusters, must be provided.
- C. The `kubectl create appdeployment` command set would be utilized. The application ID, as well as the NKP workspace of the clusters, must be provided.
- **D. The `nkp create appdeployment` command set would be utilized. The application ID & version, as well as the NKP workspace of the clusters, must be provided.**

**Answer: D**

Explanation:

NKP Platform Applications (e.g., Rook Ceph, Prometheus, Fluent Bit) are pre-integrated tools that can be deployed to Kubernetes clusters within a workspace to provide services like storage, monitoring, and logging.

The NKPA course specifies that to deploy a platform application to all clusters in a workspace from the command line, the engineer uses the `nkp create appdeployment` command. This command creates an application deployment resource that targets the specified workspace and clusters.

The required parameters include the application ID (to identify the platform application), the version (to specify the desired version of the application), and the NKP workspace (to define the scope of clusters). For example: `nkp create appdeployment --app-id prometheus --version 2.30.0 --workspace fin-vd`. The Nutanix Cloud Native (NCP-CN) 6.10 Study Guide states: "Use the `nkp create appdeployment` command to deploy platform applications, specifying the application ID, version, and target workspace to apply the deployment across all clusters in that workspace." Incorrect Options:

\* B. `nkp deploy platform-app`: This is not a valid NKP command. The correct command is `nkp create appdeployment`.

\* C. `nkp deploy app`: This is not a recognized command in the NKPA documentation.

\* D. `kubectl create appdeployment`: `kubectl` interacts with Kubernetes resources, not NKP-specific platform applications.

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Nutanix Kubernetes Platform Administration (NKPA) Course, Section on Platform Application Deployment.

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

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

#### NEW QUESTION # 91

A Platform Engineer has been tasked with setting up a secure and isolated environment for managing an NKP environment. The

environment will have no access to the Internet but will be required to create additional NKP clusters in the future. The security team has recommended using a bastion host to achieve this goal. What is the primary purpose of a bastion host in this scenario?

- A. To act as a firewall for the cluster, blocking all incoming traffic.
- B. To serve as a load balancer for the NKP clusters.
- **C. To provide a secure point for creating and operating NKP clusters.**
- D. To store and manage sensitive data related to the cluster.

**Answer: C**

#### **NEW QUESTION # 92**

To keep an NKP cluster and applications healthy and drive productivity forward, a Platform Engineer needs to stay informed of all events occurring within the cluster. What component of kube-prometheus-stack will help the engineer to stay informed of these events in NKP?

- A. prometheus-operator
- B. service monitors
- C. node-exporter
- **D. alertmanager**

**Answer: D**

Explanation:

The kube-prometheus-stack is a key component of NKP's monitoring stack, providing tools for metrics collection, visualization, and alerting. The NKPA course explains that Alertmanager, a component of the kube-prometheus-stack, is responsible for handling alerts generated from Prometheus metrics. It aggregates, deduplicates, and routes notifications to the appropriate channels (e.g., email, Slack, PagerDuty), ensuring that the Platform Engineer stays informed of critical events and anomalies in the NKP cluster, such as node failures, resource exhaustion, or application errors.

The Nutanix Cloud Native (NCP-CN) 6.10 Study Guide states: "Alertmanager in the kube-prometheus-stack processes alerts from Prometheus, enabling administrators to stay informed of cluster events through configured notification channels." By configuring Alertmanager with appropriate routing rules and receivers, the engineer can receive real-time notifications about cluster events, driving proactive management and productivity.

Incorrect Options:

- \* A. prometheus-operator: The operator manages Prometheus and related resources but does not directly handle event notifications.
- \* B. service monitors: Service monitors define how Prometheus scrapes metrics, not how events are communicated.
- \* D. node-exporter: Node-exporter collects node-level metrics, not event notifications.

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Nutanix Kubernetes Platform Administration (NKPA) Course, Section on Monitoring and Alerting.

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

Nutanix Cloud Bible, NutanixKubernetesPlatform Section: <https://www.nutanixbible.com> Prometheus Documentation: <https://prometheus.io/docs/alerting/alertmanager>

#### **NEW QUESTION # 93**

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. 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.**
- B. 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.
- C. When using the nkp create cluster aws command set, include the valid parameters with the pre-existing VPC, subnets, and ELB to use.
- D. 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.

**Answer: A**

