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NCP-CN

**CERTIFIED
PROFESSIONAL CLOUD
NATIVE PRACTICE EXAM**



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Nutanix NCP-CN Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• 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.
Topic 2	<ul style="list-style-type: none">• 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.
Topic 3	<ul style="list-style-type: none">• 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.
Topic 4	<ul style="list-style-type: none">• 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.

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Nutanix Certified Professional - Cloud Native v6.10 Sample Questions (Q51-Q56):

NEW QUESTION # 51

A company recently deployed NKP. A Platform Engineer was asked to attach the existing Amazon EKS. A workspace and project were created accordingly, and resource requirements were met. What does the engineer need to do first to prepare the EKS clusters?

- A. Create a service account with cluster-admin permissions.
- B. Configure a ConfigMap according to EKS configuration.
- C. Deploy cert-manager in the EKS clusters.
- D. Configure HAProxy to get connected to EKS clusters.

Answer: A

NEW QUESTION # 52

A Platform Engineer is preparing to deploy a new NKP cluster on Nutanix infrastructure into an air-gapped environment. As part of the preparation process, the engineer is supplying a Ubuntu 22.04 instance to be used for NKP cluster nodes that conforms to the corporate OS image hardening standards. However, during the NIB preparation process, the error shown in the exhibit is received. What is the likely reason the NIB preparation attempt has failed?

- A. The engineer has supplied the inartifacts directory for the OS package bundle in the NIB-prep command.
- B. The engineer has not seeded the local registry with the required NKP images prior to the NIB-prep attempt.
- C. The engineer has not created the OS package bundle prior to the NIB-prep attempt.
- D. Ubuntu 22.04 is not a supported OS for NKP nodes on Nutanix infrastructure, therefore the necessary OS package bundle does not exist.

Answer: C

NEW QUESTION # 53

A Cloud Engineer would like to configure an NKP cluster that is running in the cloud to dynamically expand and compact its resource capacity for running container workloads. This will help ensure efficient use of resources without impacting online retail transaction performance that is increasingly hitting unpredictable spikes and lulls. Which autoscaling method does NKP use and how does it scale?

- A. Horizontal-Pod autoscaler and worker node CPU/memory sizing
- B. Horizontal-Pod autoscaler and worker node replicas
- C. Cluster autoscaler and worker node CPU/memory sizing
- D. Cluster autoscaler and worker node replicas

Answer: D

Explanation:

NKP uses the Cluster Autoscaler to scale worker node replicas up or down. This ensures that resource availability dynamically matches workload demand by adjusting the number of worker nodes. Pod-level autoscaling (Horizontal-Pod autoscaler) is also supported for pod scaling but is not responsible for node pool expansion or compaction.

Key Reference:

"NKP uses the Cluster Autoscaler to dynamically adjust worker node pool replicas in response to cluster resource demands."

Reference:

Nutanix Kubernetes Platform Administration (NKPA) 6.10 - "Cluster Autoscaler for Node Pools" NCP-CN 6.10 Study Guide - "Cluster Autoscaler vs Horizontal Pod Autoscaler"

NEW QUESTION # 54

A dev team needed to optimize their logging system to be more robust, because the CPU and memory limits were insufficient, which caused delays in log collection and processing during times of high demand.

After a deep performance analysis, they decided to increase the CPU limits from 1 to 4 and the memory from 1000Mi to 4Gi. Which ConfigMap should the development team run with custom resource requests and limit values for fluentd?

- A. bashCopy
[nutanix@nkp-boot ~]\$ cat <<EOF > configmap.yamlapiVersion: v1kind: ConfigMapmetadata.name: logging-operator-logging-overridesnamespace: kommanderdata.values.yaml: |fluentd.resources.limits.cpu: 4memory: 4Girequests.cpu: 4memory: 4GiEOF
- B. bashCopy
[nutanix@nkp-boot ~]\$ cat <<EOF > configmap.yamlapiVersion: v1kind: ConfigMapmetadata.name: logging-operator-logging-overridesnamespace: kommanderdata.values.yaml: |fluentd.resources.limits.cpu 4memory 1000Mirequests.cpu 1memory 4GiEOF
- C. bashCopy
[nutanix@nkp-boot ~]\$ cat <<EOF > configmap.yamlapiVersion v1kind ConfigMapmetadataname logging-operator-logging-overridesnamespace kommanderdatavalues.yaml |fluentd.resources.limitscpu 4EOFvalues.yaml |fluentd.resources.limitscpu 4memory 4Girequestscpu 1memory 1000MiEOF
- D. bashCopy
[nutanix@nkp-boot ~]\$ cat <<EOF > configmap.yamlapiVersion v1kind ConfigMapmetadataname logging-operator-logging-overridesnamespace kommanderdatavalues.yaml |fluentd.resources.limitscpu 1memory 1000Mirequestscpu 4memory 4GiEOF

Answer: A

NEW QUESTION # 55

A Platform Engineer is looking to backup and restore persistent volumes and other cluster resources. Which two NKP licenses include backup and restore functionality? (Choose two.)

- A. NKP Starter
- B. NKP Essential
- C. NKP Ultimate
- D. NKP Pro

Answer: C,D

NEW QUESTION # 56

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