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Nutanix NCP-CN Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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	• 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.
Topic 4	• 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.

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Nutanix Certified Professional - Cloud Native v6.10 Sample Questions (Q14-Q19):

NEW QUESTION # 14
A DevOps team faces a growing challenge of managing logs from multiple applications in an NKP cluster.
With several teams working on different projects, it is essential to implement a Multi-Tenant Logging system that allows each team to access their own logs securely and efficiently. Initially, two namespaces have been configured for each project, as shown in the exhibit. Then a ConfigMap has also been configured for each tenant, which contains the logging configuration. Which YAML output corresponds to a retention period of
30 days for tenant-innovation and seven days for tenant-analytics?

- A. yaml
  CollapseWrap
  Copy
  apiVersion: v1
  kind: ConfigMap
  metadata:
  name: logging-innovation-config
  namespace: tenant
  data:
  values.yaml: |
  loki:
  structuredConfig:
  limits_config:
  retention_period: 30d
  ---
  apiVersion: v1
  kind: ConfigMap

metadata:
name: logging-analytics-config
namespace: tenant
data:
values.yaml: |
loki:
structuredConfig:
limits_config:
retention_period: 7d

- B. yaml
CollapseWrap
Copy
apiVersion: v1
kind: ConfigMap
metadata:
name: logging-innovation-config
namespace: tenant-innovation
data:
values.yaml: |
loki:
structuredConfig:
limits_config:
retention_period: 30d
---
apiVersion: v1
kind: ConfigMap
metadata:
name: logging-analytics-config
namespace: tenant-innovation
data:
values.yaml: |
loki:
structuredConfig:
limits_config:
retention_period: 7d
- C. yaml
CollapseWrap
Copy
apiVersion: v1
kind: ConfigMap
metadata:
name: logging-innovation-config
namespace: tenant-innovation
data:
values.yaml: |
loki:
structuredConfig:
limits_config:
retention_period: 30h
---
apiVersion: v1
kind: ConfigMap
metadata:
name: logging-analytics-config
namespace: tenant-analytics
data:
values.yaml: |
loki:
structuredConfig:
limits_config:
retention_period: 7h

- D. yaml
  CollapseWrap
  Copy
  apiVersion: v1
  kind: ConfigMap
  metadata:
  name: logging-innovation-config
  namespace: tenant-innovation
  data:
  values.yaml: |
  loki:
  structuredConfig:
  limits_config:
  retention_period: 30d
  ---
  apiVersion: v1
  kind: ConfigMap
  metadata:
  name: logging-analytics-config
  namespace: tenant-analytics
  data:
  values.yaml: |
  loki:
  structuredConfig:
  limits_config:
  retention_period: 7d

Answer: D

Explanation:
The NKPA course explains that NKP uses Grafana Loki as part of its logging stack to implement a multi- tenant logging system, allowing teams to access their logs securely within their respective namespaces. The exhibit indicates two namespaces, tenant-innovation and tenant-analytics, each with a ConfigMap for logging configuration. The requirement is to set a retention period of 30 days for tenant-innovation and 7 days for tenant-analytics.
The correct YAML output (Option A) configures Loki's retention period using ConfigMaps in the appropriate namespaces:
* For tenant-innovation, the ConfigMap logging-innovation-config in the tenant-innovation namespace sets retention_period: 30d.
* For tenant-analytics, the ConfigMap logging-analytics-config in the tenant-analytics namespace sets retention_period: 7d.
The Nutanix Cloud Native (NCP-CN) 6.10 Study Guide states: "In NKP, configure multi-tenant logging with Grafana Loki by creating a ConfigMap per namespace, specifying retention periods under loki.
structuredConfig.limits_config.retention_period (e.g., 30d for 30 days, 7d for 7 days)." The d suffix denotes days, aligning with the requirement for 30 days and 7 days retention periods.
Incorrect Options:
* B: The second ConfigMap incorrectly uses the tenant-innovation namespace instead of tenant-analytics, breaking the multi-tenant isolation.
* C: The retention periods are set to 30h and 7h (hours), not 30d and 7d (days), which does not meet the requirement.
* D: Both ConfigMaps use a generic tenant namespace, which does not match the specific namespaces (tenant-innovation, tenant-analytics) shown in the exhibit.
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Nutanix Kubernetes Platform Administration (NKPA) Course, Section on Multi-Tenant Logging with Loki.
Nutanix Cloud Native (NCP-CN) 6.10 Study Guide, Chapter on Day 2 Operations.
Nutanix Cloud Bible, NutanixKubernetesPlatform Section: https://www.nutanixbible.com Grafana Loki Documentation: https://grafana.com/docs/loki

NEW QUESTION # 15
A Platform Engineer wants to deploy a custom OS image for multiple NKP clusters for Nutanix AHV and AWS. Which two tools come bundled to facilitate creating and placing a custom image into the respective image repository?

- A. Konvoy Image Builder
- B. Ansible
- C. Terraform

- D. Nutanix Image Builder

Answer: A,D

NEW QUESTION # 16
An administrator is provisioning an NKP cluster. After the VM creation task, the error shown in the exhibit is produced.
What could be the reason?

- A. VM doesn't have communication to the registry.
- B. NKP Software is not loaded in the registry.
- C. Private registry software or version is not the recommended.
- D. VM does not have the Linux version.

Answer: A

Explanation:
The error states:
pgsql
Copy
error upgrading CAPI components: unable to upgrade CAPI components: deployment "capp-controller- manager" is not ready after 10m0s: failed to connect to the management cluster: context deadline exceeded This clearly points to connectivity issues between the VM (or nodes) and the management cluster, typically caused by registry communication issues in air-gapped or private environments. When the VM cannot connect to the registry to pull required images or configuration, the CAPI (Cluster API) components cannot be initialized, causing a timeout.
Key Reference:
* Nutanix Kubernetes Platform Administration (NKPA) 6.10 - "Air-Gapped and Registry Communication Issues"
* NCP-CN 6.10 Study Guide - "Cluster API Upgrade Process and Network Prerequisites"
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NEW QUESTION # 17
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 NodesWhich command should the administrator use to invoke the prompt-based CLI deployment method?

- A. nkp create cluster nutanix
- B. nkp create cluster ahv
- C. nkp install kommander
- D. nkp create nodepool nutanix

Answer: B

Explanation:
The NKPA course outlines the process for deploying an NKP cluster on Nutanix AHV infrastructure using the NKP CLI. For a prompt-based deployment, where the administrator is guided through configuration options interactively, the correct command is nkp create cluster ahv. This command initiates the deployment of an NKP cluster on the AHV hypervisor, prompting the administrator to input details like cluster name, node counts, and networking settings.
The Nutanix Cloud Native (NCP-CN) 6.10 Study Guide states: "To deploy an NKP cluster on AHV using the prompt-based CLI method, use nkp create cluster ahv, which guides the administrator through the configuration process." The command is specific to the AHV hypervisor (part of AOS 6.10) and is suitable for the specified hardware (NX-8170-G9 nodes).
Incorrect Options:
* A. nkp create cluster nutanix: The provider is specified as ahv, not nutanix, in the NKP CLI syntax.
* C. nkp create nodepool nutanix: This creates a node pool, not a cluster, and is not prompt-based.
* D. nkp install kommander: Kommander is a management component, not used for cluster creation on AHV.
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Nutanix Kubernetes Platform Administration (NKPA) Course, Section on Cluster Deployment.
Nutanix Cloud Native (NCP-CN) 6.10 Study Guide, Chapter on Building NKP Clusters.
Nutanix Cloud Bible, NutanixKubernetesPlatform Section: https://www.nutanixbible.com

NEW QUESTION # 18
A Platform Engineer needs to create an NKP cluster on vSphere infrastructure, using the vSphere provisioning method. The cluster needs to have 3 worker node pools:
* First node pool should consist of 6 worker nodes
* Second node pool should consist of 3 worker nodes
* Third node pool should consist of 3 worker nodesAdditionally, the worker nodes in the first node pool should be set to 10 CPUs, the second node pool workers should be set to 8 CPUs, and the third node pool workers should be set to 6 CPUs. What is the proper way to create the NKP cluster using the NKP CLI?

- A. First, execute the nkp create cluster vsphere command, including the following parameters:
  --worker-replicas 6
  --worker-cpus 10
  Then, execute the nkp create nodepools vsphere command, including the following parameters:
  --replicas 3,3
  --cpus 8,6
- B. First, execute the nkp create cluster vsphere command, including the following parameters:
  --worker-replicas 6
  --worker-cpus 10
  Then, execute the nkp create nodepool vsphere command, including the following parameters:
  --replicas 3
  --cpus 6
- C. When executing the nkp create cluster vsphere command, include the following parameters:
  --node-pools 3
  --worker-replicas 6,3,3
  --worker-cpus 10,8,6
- D. First, execute the nkp create cluster vsphere command, including the following parameters:
  --worker-replicas 6
  --worker-cpus 10
  Then, execute the nkp create nodepool vsphere command, including the following parameters:
  --worker-replicas 3
  --worker-cpus 8
  Then, execute the nkp create nodepool vsphere command, including the following parameters:
  --worker-replicas 3
  --worker-cpus 6

Answer: D

Explanation:
The NKPA course details the process of creating an NKP cluster on vSphere using the NKP CLI, including the configuration of multiple node pools with specific worker node counts and CPU settings. The correct approach involves creating the cluster with the initial node pool and then adding additional node pools separately.
The steps in Option A align with this process:
* nkp create cluster vsphere --worker-replicas 6 --worker-cpus 10: This command creates the NKP cluster on vSphere with the first node pool, consisting of 6 worker nodes, each with 10 CPUs.
* nkp create nodepool vsphere --worker-replicas 3 --worker-cpus 8: This adds the second node pool to the cluster with 3 worker nodes, each with 8 CPUs.
* nkp create nodepool vsphere --worker-replicas 3 --worker-cpus 6: This adds the third node pool with 3 worker nodes, each with 6 CPUs.
The Nutanix Cloud Native (NCP-CN) 6.10 Study Guide states: "To create an NKP cluster with multiple node pools on vSphere, use nkp create cluster vsphere to define the first node pool, then add additional node pools with nkp create nodepool vsphere, specifying --worker-replicas and --worker-cpus for each pool." This method ensures precise control over each node pool's configuration.
Incorrect Options:
* B: The second nkp create nodepool command uses --replicas and --cpus, which are not the correct flags.
The NKPA course specifies --worker-replicas and --worker-cpus.
* C: The --node-pools, --worker-replicas 6,3,3, and --worker-cpus 10,8,6 flags are not supported in a single nkp create cluster command. Node pools must be created separately.
* D: There is no nkp create nodepools command; the correct command is nkp create nodepool.
Additionally, --replicas and --cpus are incorrect flags.
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Nutanix Kubernetes Platform Administration (NKPA) Course, Section on Cluster Creation.
Nutanix Cloud Native (NCP-CN) 6.10 Study Guide, Chapter on Building NKP Clusters.
Nutanix Cloud Bible, NutanixKubernetesPlatform Section: https://www.nutanixbible.com

NEW QUESTION # 19
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