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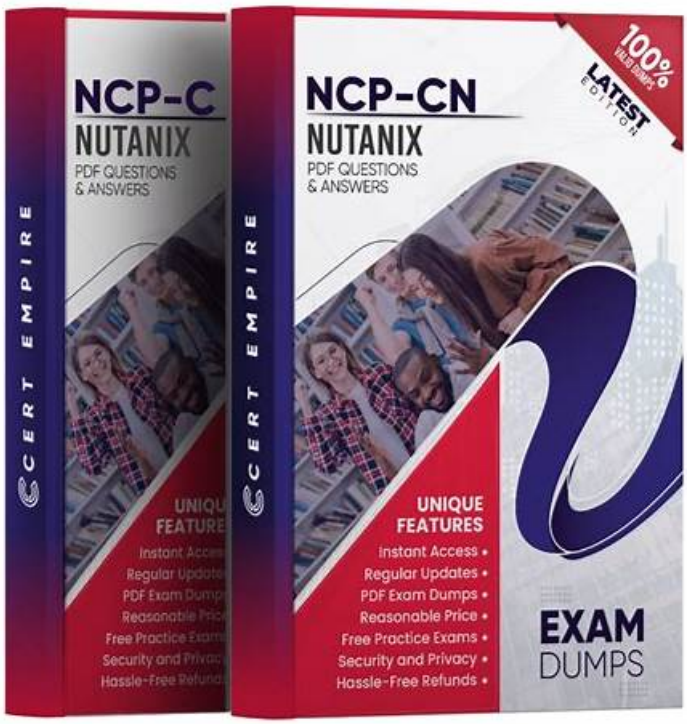

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Nutanix NCP-CN Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 3	• 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 4	• 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.

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Nutanix Certified Professional - Cloud Native v6.10 Sample Questions (Q93-Q98):

NEW QUESTION # 93
Prior to implementing NKP, a company had created a number of Kubernetes (K8s) clusters using kubeadm.
While they are deploying new managed clusters via NKP, the company does not wish to migrate workloads from these pre-existing native K8s clusters over to new NKP clusters just yet.
What are the requirements to have these clusters attached to their NKP management cluster?

- A. An NKP management cluster admin account must be established on the K8s clusters.
- B. The NKP management cluster must be able to reach the services and api-server of the target cluster.
- C. The version of the K8s clusters must be within N - 1 of the Kubernetes version of the NKP management cluster.
- D. The version of the K8s clusters must match the Kubernetes version of the NKP management cluster.

Answer: B

Explanation:
As per the NKPA 6.10 documentation, the primary requirement for attaching external (self-managed) Kubernetes clusters to NKP is network connectivity. Specifically, the NKP management cluster must be able to communicate with the Kubernetes API server and relevant services of the target cluster. This allows NKP to collect metrics, perform health checks, and manage the attached cluster through Kommander and associated tools.
Exact extract:
"For attaching existing Kubernetes clusters, ensure the NKP management cluster can reach the Kubernetes API server of the target cluster and that the kubeconfig used has sufficient permissions." There is no requirement that the Kubernetes versions be exactly matched or within N-1, nor that an NKP admin account be directly established on the target clusters; the connectivity and valid kubeconfig file are the essential requirements.
Reference:
Nutanix Kubernetes Platform Administration (NKPA) 6.10 - "Attaching External Clusters" NCP-CN 6.10 Study Guide - "External Cluster Integration"

NEW QUESTION # 94
When deploying an NKP cluster onto air-gapped, pre-provisioned servers, Konvoy Image Builder is utilized to prepare the servers to become NKP cluster nodes.
What does the konvoy-image upload command do as a part of this preparation process?

- A. The command uploads artifacts to the servers such as the container runtime, the OS bundle, and Kubernetes components, including optional OS hardening scripts (must be client supplied).
- B. The command uploads artifacts to the servers such as the container runtime, the OS bundle, and Kubernetes components.
- C. The command is used to upload OS hardening scripts to the server (must be client supplied).
- D. The command is used to create a konvoy userid on the servers, as well as upload artifacts to them such as the container runtime, the OS bundle, and Kubernetes components.

Answer: B

Explanation:
According to the NKPA 6.10 documentation under "Air-Gapped Preparation with Konvoy Image Builder," the konvoy-image upload command uploads essential artifacts to the target servers to prepare them to serve as cluster nodes. These artifacts include:
* Container runtime (containerd)
* OS bundle
* Kubernetes components
It does not involve user creation or OS hardening scripts (those are separate, client-driven processes).
Key reference from documentation:
"The konvoy-image upload command uploads the required artifacts to the target server(s) to prepare them for Kubernetes deployment in air-gapped environments. This includes the container runtime, OS bundle, and Kubernetes binaries." Reference: Nutanix Kubernetes Platform Administration (NKPA) 6.10 - "Air-Gapped Deployment Preparation" NCP-CN 6.10 Study Guide - "Konvoy Image Builder Workflow"

NEW QUESTION # 95
A current Nutanix cluster is hosting an NKP cluster and a production Kubernetes cluster named production.
Infrastructure administrators recently added three nodes with NVidia GPUs for a new AI initiative, and now a Platform Engineer has been asked to add three workers with the GPUs to the production Kubernetes cluster.
Which first step should the engineer take to achieve this task?

- A. Configure Multi-Instance GPU (MIG):
  text
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  kubectl label nodes ${NODE} nvidia.com/mig.config=all-1g.6gb -overwrite
- B. Create a GPU-compatible OS Image with:
  text
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  nkp create image nutanix --gpu \
  --gpu-name=${GPU_NAME} \
  --cluster=${NUTANIX_CLUSTER_NAME} \
  --endpoint=${NUTANIX_PC_ENDPOINT} \
  --subnet=${NUTANIX_SUBNET} ubuntu-22.04
- C. Create a nodepool of workers with GPU:
  text
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  nkp create nodepool nutanix -c $CLUSTER_NAME \
  --vm-image $NAME_OF_GPU_OS_IMAGE_CREATED_BY_NKP_CLI \
  -o yaml --subnets $NUTANIX_SUBNET_NAME \
  --prism-element-cluster $NUTANIX_PRISM_ELEMENT_CLUSTER_NAME \
  $NODEPOOL_NAME
- D. Add the GPU Operator to the new workers:
  text
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  cat <<EOF | kubectl apply -f -
  kind: Installation
  apps:
  nvidia-gpu-operator:
  enabled: true

values: |
toolkit:
nodepool: md-0
EOF

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract of Nutanix Kubernetes Platform Administration (NKPA) Course:
The NKPA course outlines the process of adding GPU-enabled worker nodes to an existing NKP-managed Kubernetes cluster, such as the production cluster in this scenario. The first step in this process is to ensure that a GPU-compatible OS image is available for the new worker nodes, as GPU support requires specific drivers and configurations (e.g., NVIDIA drivers) that are not included in standard OS images.
The correct first step is to create a GPU-compatible OS image using the command:
text
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nkp create image nutanix --gpu \
--gpu-name=${GPU_NAME} \
--cluster=${NUTANIX_CLUSTER_NAME} \
--endpoint=${NUTANIX_PC_ENDPOINT} \
--subnet=${NUTANIX_SUBNET} ubuntu-22.04
(Option D). This command uses the NKP CLI to create a machine image based on Ubuntu 22.04, tailored for Nutanix AHV infrastructure (nutanix) with GPU support enabled (--gpu). The --gpu-name flag specifies the GPU type (e.g., NVIDIA GPU model), and other parameters define the Nutanix cluster, Prism Central endpoint, and subnet for image creation. The resulting image includes the necessary NVIDIA drivers and dependencies, making it suitable for GPU-enabled worker nodes. The Nutanix Cloud Native (NCP-CN) 6.10 Study Guide states: "Before adding GPU-enabled workers to an NKP cluster on Nutanix, the first step is to create a GPU-compatible OS image using nkp create image nutanix --gpu, ensuring the image includes the required GPU drivers for the target infrastructure." This image is then used in subsequent steps (like Option A) to create a node pool with GPU-enabled workers.
Without this image, the node pool creation in Option A would fail due to the lack of a suitable --vm-image.
Incorrect Options:
* A. Create a nodepool of workers with GPU: This step requires a pre-existing GPU-compatible OS image (specified via --vm-image). Since the question does not indicate that such an image already exists, creating the image (Option D) must happen first.
* B. Add the GPU Operator to the new workers: The NVIDIA GPU Operator can be installed to manage GPU resources, but this step occurs after the GPU-enabled workers are added to the cluster, not as the first step.
* C. Configure Multi-Instance GPU (MIG): MIG configuration is an advanced GPU setup step that occurs after the workers are added and the GPU Operator is installed, not as the first step.
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Nutanix Kubernetes Platform Administration (NKPA) Course, Section on GPU Support in NKP Clusters.
Nutanix Cloud Native (NCP-CN) 6.10 Study Guide, Chapter on Managing NKP Clusters.
Nutanix Cloud Bible, NutanixKubernetesPlatform Section: https://www.nutanixbible.com NVIDIA GPU Operator Documentation: https://docs.nvidia.com/datacenter/cloud-native/gpu-operator Before adding GPU-enabled worker nodes to the cluster, a GPU-compatible OS image must be created. This ensures that the required drivers and kernel modules are present for GPU workloads. This step is critical as it ensures the OS image is properly prepared for GPU operations before the nodes are integrated into the cluster.
References: Nutanix Kubernetes Platform Administration Guide - GPU Node Preparation and Image Management

NEW QUESTION # 96
A Platform Engineer is trying to create a new NKP cluster and is getting the error shown in the exhibit.
What is the most likely cause of this error?

- A. A docker compatible runtime is not running
- B. Inpermissions to the NKP binary
- C. Informatting in the Ansible playbook
- D. An inHelm chart repo was referenced

Answer: A

NEW QUESTION # 97
NKP Starter is bundled with which entitlement?

- A. NCI Starter
- B. NCM Pro
- C. NCI Pro
- D. NCM Starter

Answer: A

Explanation:
According to the NKPA 6.10 documentation and Nutanix licensing details, NKP Starter is bundled with the NCI Starter entitlement. This basic licensing tier includes essential capabilities for deploying and managing Kubernetes clusters within a Nutanix environment.
Key reference:
"NKP Starter is included with NCI Starter, providing foundational Kubernetes cluster lifecycle management features for small-scale or starter deployments." Reference:
Nutanix Kubernetes Platform Administration (NKPA) 6.10 - "NKP Licensing and Entitlements" NCP-CN 6.10 Study Guide - "NKP Licensing Overview"

NEW QUESTION # 98
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