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Nutanix Certified Professional - Cloud Native v6.10 Sample Questions (Q83-Q88):

NEW QUESTION # 83

A Platform Engineer is deploying a new NKP cluster that has internet connectivity. Now, a Cloud Administrator and Security Administrator are discussing the security of communications between the NKP Kubernetes cluster and the container registry. The

engineer proposes to have an on-prem private registry.

What is the most significant reason that the engineer should create a private registry instead of configuring a secure connection between the NKP cluster and Github (SaaS)?

- A. Private registry license is included with NKP.
- **B. Private registry provides security and privacy.**
- C. NKP cannot connect to public clouds.
- D. NKP requires specific registry versions.

Answer: B

NEW QUESTION # 84

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 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.
- B. The command is used to upload OS hardening scripts to the server (must be client supplied).
- **C. The command uploads artifacts to the servers such as the container runtime, the OS bundle, and Kubernetes components.**
- D. 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).

Answer: C

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 # 85

A Platform Engineer is going to deploy NKP to a Nutanix cluster on-prem as well as Amazon EKS. What is the function of the bootstrap cluster for this architecture?

- A. Saves cost by minimizing resources required for provisioning.
- **B. Uses Cluster API for infrastructure-agnostic provisioning.**
- C. Increases security from a single point of entry.
- D. Simplifies the networking requirements for Kubernetes.

Answer: B

Explanation:

The NKPA course explains the role of a bootstrap cluster in NKP deployments, particularly in hybrid architectures involving Nutanix on-prem and Amazon EKS. A bootstrap cluster is a temporary Kubernetes cluster created during the deployment process to initialize Cluster API (CAPI) components, which manage the lifecycle of the target NKP clusters. The primary function of the bootstrap cluster is to use Cluster API for infrastructure-agnostic provisioning (Option D).

CAPI enables NKP to provision clusters across different infrastructures (e.g., Nutanix AHV, AWS EKS) in a consistent, infrastructure-agnostic manner. The bootstrap cluster runs the CAPI controllers (e.g., CAPX for Nutanix, CAPA for AWS) that orchestrate the creation of the target clusters, abstracting the underlying infrastructure details. The Nutanix Cloud Native (NCP-CN) 6.10 Study Guide states: "The bootstrap cluster in NKP uses Cluster API to provide infrastructure-agnostic provisioning, enabling consistent cluster creation across diverse environments like Nutanix AHV and Amazon EKS." This ensures that the same CAPI-

based workflow can deploy clusters on both on-prem Nutanix and cloud-based EKS.

Incorrect Options:

- * A. Increases security from a single point of entry: A bastion host, not a bootstrap cluster, provides a single point of entry for security. The bootstrap cluster is temporary and focuses on provisioning.
- * B. Simplifies the networking requirements for Kubernetes: Networking is managed by the target cluster's CNI (e.g., Calico), not the bootstrap cluster.
- * C. Saves cost by minimizing resources required for provisioning: The bootstrap cluster is temporary and does not significantly impact costs; its purpose is provisioning, not cost-saving.

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Nutanix Kubernetes Platform Administration (NKPA) Course, Section on Bootstrap Cluster Functionality.

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

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

<https://cluster-api.sigs.k8s.io>

NEW QUESTION # 86

A Kubernetes administrator has been tasked with deploying a new cluster to AWS. The administrator has received the following requirements for this deployment:

- * Region us-east-1
 - * AMI rhel8.6
- What is a requirement for deploying a new cluster in AWS?

- A. Set an export `AWS_REGION`
- B. Use `--ami-format` parameter
- C. Set an export `KUBECONFIG`
- D. Use `--dry-run` parameter

Answer: A

Explanation:

For deploying NKP clusters in AWS, setting the `AWS_REGION` environment variable is a key prerequisite to ensure that the AWS CLI and underlying deployment scripts know which region to target. This is essential for provisioning instances using the specified AMI.

Exact extract:

"Set the `AWS_REGION` environment variable to the appropriate region prior to deploying clusters to ensure proper interaction with the AWS API." Reference:

Nutanix Kubernetes Platform Administration (NKPA) 6.10 - "AWS Environment Configuration" NCP-CN 6.10 Study Guide - "Preparing the AWS Environment for NKP"

NEW QUESTION # 87

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

Answer: B

NEW QUESTION # 88

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