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Nutanix NCP-CN Exam Syllabus Topics:

| Topic | Details |
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| Topic 1 | <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 2 | <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. |
| Topic 3 | <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 4 | <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. |

Nutanix Certified Professional - Cloud Native v6.10 Sample Questions (Q60-Q65):

NEW QUESTION # 60

A Platform Engineer needs to do an air-gapped installation of NKP. This environment needs to run without Internet access and be fully operational, including updates. Docker has been installed, and the NKP bundle exists on a bastion host. What is the first command that the engineer must run to begin the process?

- A. `nkp create cluster nutanix`
- B. `tar -xzf nkp-air-gapped-bundle_v2.12.0_linux_amd64.tar.gz`
- C. `nkp push bundle --bundle`
- D. `docker load -i konvoy-bootstrap-image-v2.12.0.tar`

Answer: B

Explanation:

In an air-gapped NKP installation, the engineer starts with the NKP Air-Gapped Bundle, a tarball containing all necessary components (e.g., container images, binaries, configuration files) for deployment without Internet access. The NKPA course specifies that the first step is to extract this bundle on the bastion host to make its contents available for the installation process. The correct command is `tar -xzf nkp-air-gapped-bundle_v2.12.0_linux_amd64.tar.gz`, which extracts the bundle into a directory, revealing the container images, CLI tools, and other resources needed for the deployment.

The Nutanix Cloud Native (NCP-CN) 6.10 Study Guide states: "To begin an air-gapped NKP installation, first extract the NKP Air-Gapped Bundle using `tar -xzf <bundle-file>.tar.gz` on the bastion host to access the installation artifacts." After extraction, the engineer can proceed with loading container images (e.g., using `docker load`) and running NKP CLI commands to deploy the cluster, ensuring all dependencies are available locally.

Incorrect Options:

- * A. `nkp push bundle --bundle`: This is not a valid command. The bundle must be extracted before its contents can be used.
- * B. `docker load -i konvoy-bootstrap-image-v2.12.0.tar`: Loading the bootstrap image is a subsequent step after extracting the bundle, which contains this image tarball.
- * D. `nkp create cluster nutanix`: This command creates a cluster but cannot be run until the bundle is extracted and its images are loaded.

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Nutanix Kubernetes Platform Administration (NKPA) Course, Section on Air-Gapped Installations.

NEW QUESTION # 61

A Platform Engineer needs to utilize the Konvoy Image Builder for building a custom operating system image. This image will be used to deploy clusters on various platforms. The engineer has been tasked with creating an OS image compatible with Konvoy's requirements. In order to successfully build a compatible image using the Konvoy Image Builder, the engineer needs to ensure that a development environment meets the necessary prerequisites.

Which system is required to create a compatible OS image with the Konvoy Image Builder?

- A. A virtualized arm64 environment using KVM
- B. A lambda instance within an AWS account
- C. An x86_64-based Linux or MacOS Machine
- D. A 32-bit Windows machine with a USB connection

Answer: C

NEW QUESTION # 62

The cluster arca will host a new application that needs to add more workers. The company cannot get more NKP licenses, so it has decided to delete the demo cluster and add the required workers to the arca cluster.

How should the engineer delete the demo cluster from this UI?

- A. Login with SSH to the kommander cluster and execute `kubectl delete cluster -c demo`
- B. Press the ("demo" cluster line) three-dot menu at the right and select Download kubeconfig, then use that file to execute `kubectl delete cluster -c demo --kubeconfig=demo.conf`
- C. Press the ("demo" cluster line) three-dot menu at the right and select Detach. Then ask the cluster owner to delete the cluster.
- D. Press the ("demo" cluster line) three-dot menu at the right and select Delete.

Answer: D

Explanation:

The exhibit shows the NKP UI with a list of clusters, including "arca," "demo," and "production," each with a three-dot menu on the right side. The NKPA course explains that to delete a cluster directly from the NKP UI, the engineer should use the Delete option available in the cluster's three-dot menu. This action initiates the deletion process, removing the cluster from NKP management and freeing up any associated licenses (e.g., CPU core-based licenses, as per NKP licensing).

The Nutanix Cloud Native (NCP-CN) 6.10 Study Guide states: "To delete a cluster in NKP via the UI, navigate to the cluster list, click the three-dot menu for the target cluster (e.g., demo), and select 'Delete' to remove the cluster and its resources." The UI in the exhibit aligns with this process, showing the three-dot menu next to the "demo" cluster, which includes the Delete option. This is the most straightforward method to delete the demo cluster and reallocate resources to the arca cluster.

Incorrect Options:

- * A. Download kubeconfig and use `kubectl delete cluster`: `kubectl delete cluster` is not a valid command for deleting NKP clusters. NKP uses the `nkp` CLI or UI for cluster deletion.
- * C. Select Detach and ask the cluster owner to delete: Detach is for external clusters (e.g., EKS), not NKP-managed clusters like "demo," which is on Nutanix infrastructure. Detaching does not delete the cluster.
- * D. SSH to kommander cluster and execute `kubectl delete cluster`: Kommander is a management component, but `kubectl delete cluster` is not a valid command for NKP cluster deletion.

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

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 # 63

A Platform Engineer is attaching existing Kubernetes clusters to NKP, but a particular Kubernetes Amazon EKS cluster is getting errors with application deployments. These errors are related to persistent volumes. What could be the issue, and what can the engineer do?

- A. There is no default StorageClass. Storage classes should be reviewed, and only one should be set as default.
- B. The storage appliance is having issues. The storage engineer should be contacted to take a look.
- C. There could be a misconfiguration in the ConfigMap. It should be adjusted to NKP requirements.
- D. There is no compatible storage to be attached to the EKS cluster. Ask for compatible storage.

Answer: A

NEW QUESTION # 64

A Platform Engineer is running a Kubernetes cluster version 1.28.1 on AWS that needs to be upgraded to version 1.29.9. This cluster was deployed with Nutanix NKP. Which two actions should the engineer take to complete this requirement? (Choose two.)

- A. Upgrade Workers with `nkp upgrade nodepool aws ${NODEPOOL_NAME} --cluster-name=${CLUSTER_NAME} --kubernetes-version=v1.29.9`
- B. Upgrade Workers with `nkp update nodepool aws ${NODEPOOL_NAME} --cluster-name=${CLUSTER_NAME} --kubernetes-version=v1.29.9`
- C. Upgrade Control Planes with `nkp update controlplane aws --cluster-name=${CLUSTER_NAME} --ami AMI_ID --kubernetes-version=v1.29.9`
- D. Upgrade the Cluster with `nkp update cluster aws --cluster-name=${CLUSTER_NAME} --ami AMI_ID --kubernetes-version=v1.29.9`

Answer: A,C

Explanation:

The NKPA course details the process for upgrading an NKP-managed Kubernetes cluster, such as one running on AWS from version 1.28.1 to 1.29.9. Upgrading a Kubernetes cluster involves two distinct steps:

upgrading the control plane nodes and upgrading the worker nodes, ensuring minimal disruption and maintaining compatibility. The NKP CLI provides specific commands to handle these upgrades separately for AWS clusters.

* Upgrade Control Planes with `nkp update controlplane aws --cluster-name=${CLUSTER_NAME}`

`--ami AMI_ID --kubernetes-version=v1.29.9` (Option B): The control plane must be upgraded first to the target Kubernetes version (1.29.9). The `nkp update controlplane aws` command updates the control plane nodes, specifying the cluster name, the new Kubernetes version, and an updated AMI (Amazon Machine Image) that supports the target version. The Nutanix Cloud Native (NCP-CN) 6.10 Study Guide states: "To upgrade an NKP cluster on AWS, first update the control plane using `nkp update controlplane aws --cluster-name <name> --ami <ami-id> --kubernetes-version <version>` to ensure the control plane runs the desired Kubernetes version." The `--ami` flag is required to specify a compatible image for the upgraded control plane nodes.

* Upgrade Workers with `nkp upgrade nodepool aws ${NODEPOOL_NAME} --cluster-name=${CLUSTER_NAME} --kubernetes-version=v1.29.9` (Option C): After the control plane is upgraded, the worker nodes in each node pool must be upgraded to match the control plane version.

The `nkp upgrade nodepool aws` command updates the specified node pool to the target Kubernetes version (1.29.9). The NKPA course notes: "Upgrade worker nodes using `nkp upgrade nodepool aws`

`<nodepool-name> --cluster-name <cluster-name> --kubernetes-version <version>`, which performs a rolling update to ensure minimal downtime." This command automatically handles the rolling update of worker nodes, replacing them with new nodes running the updated version. Note that the `--ami` flag is not required here, as NKP typically uses the same AMI as the control plane or

retrieves a compatible one based on the version.

Incorrect Options:

* A. `nkp update nodepool aws`: The correct command is `nkp upgrade nodepool`, not `nkp update nodepool`. The NKPA course uses `upgrade` for version changes to node pools.

* D. `nkp update cluster aws`: This command is not the standard approach for upgrading Kubernetes versions in NKP. The course specifies separate commands for control plane and node pool upgrades to ensure a controlled process.

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

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 # 65

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