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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"> • 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"> • 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	<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.

Nutanix Certified Professional - Cloud Native v6.10 Sample Questions (Q36-Q41):

NEW QUESTION # 36

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

Answer: A,B

NEW QUESTION # 37

A Platform Engineer is deploying an NKP cluster within an air-gapped AWS environment. However, after an infrastructure planning session with the network team, it's been determined that the default CIDR block range that is used by pods on NKP clusters is already in use in their environment.

How can the engineer ensure there are no collisions between NKP pod traffic and the existing network using that subnet range?

- A. Create the NKP cluster's manifest using the `nkp create cluster` command set and include the pod CIDR block range parameter when generating the cluster manifest. Deploy the NKP cluster manifest.
- B. Because the environment is air-gapped, there will be no network traffic collision concerns and no adjustment needs to be made to the pod network CIDR block range.
- C. Create an NKP infrastructure provider for AWS in the NKP UI. Select the Advanced Options button from the Network section of the Create Cluster page and specify a unique CIDR block range within the pod network field.
- D. Create an NKP infrastructure provider for AWS in the NKP UI. When deploying the NKP cluster through the UI, specify a unique CIDR block range for the pod network field in the Network section of the Create Cluster page.

Answer: A

NEW QUESTION # 38

Some time ago, an EKS cluster was attached to be managed with NKP (Fleet Management). Now, a Platform Engineer has been asked to disconnect the EKS cluster from NKP for licensing reasons. After disconnecting the cluster, the developers realized that application changes are still being reflected in the EKS cluster, despite the fact that the EKS cluster was successfully detached from NKP. How should the engineer resolve this issue?

- **A. Detached cluster's Flux installation must be manually disconnected from the management Git repository: `kubectl -n kommander-flux patch gitrepo management -p '{"spec":{"suspend":true}}' --type merge`**
- B. Forcefully detach EKS cluster: `nkp detach cluster -c detached-cluster-name --force`
- C. Developers must have some bad configuration in the deployment config files. Ask for revision or call AWS technical support.
- D. Detached cluster must also be deleted from NKP: `nkp delete cluster -c detached-cluster-name`

Answer: A

NEW QUESTION # 39

A company was using a test application called temp-shop developed in the temp-e-commerce NKP Starter cluster. Now, the cluster has just been taking up valuable resources that could be used for other projects, so the development team has decided to remove it. Before proceeding, they verified that they had the cluster configuration file temp-e-commerce.conf. What command should the development team execute to delete the cluster with its nodes and application?

- A. `nkp delete cluster --cluster-name=temp-shop --self-managed --kubeconfig=temp-shop.conf`
- **B. `nkp delete cluster --cluster-name=temp-e-commerce --self-managed --kubeconfig=temp-e-commerce.conf`**
- C. `nkp delete cluster --all`
- D. `nkp delete cluster --application-name=temp-shop --self-managed --kubeconfig=temp-e-commerce.conf`

Answer: B

NEW QUESTION # 40

A development team decided to employ an efficient monitoring system with Grafana-logging, which was successfully implemented as can be seen in the following output:

AppDeployment "kommander-default-workspace/grafana-logging" created in namespace "kommander- default-workspace". Which command did the team execute to complete this task?

- A. `kubectl get helmreleases grafana-logging -n kommander-default-workspace -w`
- B. `export WORKSPACE_NAMESPACE=kommander-default-workspace`
`appdeployment`
`nkp create package-bundle grafana-logging`
- **C. `nkp create appdeployment grafana-logging --app grafana-logging-6.57.4 --workspace default-workspace`**
- D. `kubectl get appdeployment -n kommander-default-workspace`

Answer: C

Explanation:

The output indicates that an AppDeployment resource named grafana-logging was created in the kommander- default-workspace namespace, which corresponds to an NKP workspace. The NKPA course explains that NKP Platform Applications, such as Grafana Logging, are deployed using the `nkp create appdeployment` command. This command creates an AppDeployment resource that deploys the specified application (e.g., Grafana Logging) across all clusters in a workspace.

The command in Option A, `nkp create appdeployment grafana-logging --app grafana-logging-6.57.4 -- workspace default-workspace`, matches the output:

* grafana-logging is the name of the AppDeployment.

* `--app grafana-logging-6.57.4` specifies the application and version.

* `--workspace default-workspace` targets the workspace, which corresponds to the namespace kommander-default-workspace in the output (the kommander- prefix is a standard NKP namespace convention).

The Nutanix Cloud Native (NCP-CN) 6.10 Study Guide states: "To deploy a platform application like Grafana Logging, use `nkp`

<workspace-name>, which creates an AppDeployment resource in the workspace namespace." This command aligns with the output provided.

Incorrect Options:

* B. export WORKSPACE_NAMESPACE and nkp create package-bundle: There is no nkp create package-bundle command in NKP for deploying applications. The correct command is nkp create appdeployment.

* `C. kubectcl get appdeployment`: This retrieves the status of an AppDeployment, not creates it. The output indicates creation, not retrieval.

* `D. kubectrl get helmreleases`: This retrieves HelmRelease resources, not AppDeployments, and does not create the Grafana Logging deployment.

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Nutanix Kubernetes Platform Administration (NKPA) Course, Section on Platform Application Deployment.

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 # 41

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