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Nutanix NCP-CN Exam Syllabus Topics:

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

Nutanix Certified Professional - Cloud Native v6.10 Sample Questions (Q53-Q58):

NEW QUESTION # 53
In a financial company, a DevOps team is responsible for supporting all of the company's critical applications. Although the team was experienced, the manual management for cluster health checking was becoming increasingly complicated and prone to errors. The team consulted its company's Platform Engineer on how to best address these issues. They told the engineer that events such as these were occurring
1.Omitting pod security standards.
2.Crashlooping cases.
3.Failed nodes when deploying or running kube-bench.
What recommendation should the engineer provide to the DevOps team?

- A. Create a MachineHealthCheck resource in YAML format.
- B. Use override ConfigMaps to configure alert rules.
- C. Run the nkp describe cluster --cluster-name=${CLUSTER_NAME} command.
- D. Use AlertManager and NKP Insights together.

Answer: D

NEW QUESTION # 54
An organization is setting up a new set of NKP clusters for R&D. The R&D director requires full admin access for the team on infrastructure dedicated to R&D.
What is the proper method for the engineer to ensure these objectives are met?

- A. Create an 'R&D' NKP workspaceCreate an 'R&D' infrastructure provider in this workspaceCreate an 'R&D' NKP group for the R&D team members and assign admin-level roles withinDeploy the NKP clusters into the 'R&D' workspace
- B. Create an 'R&D' NKP workspace and project within this workspaceCreate an NKP infrastructure provider in the 'R&D' NKP projectCreate an 'R&D' NKP group for the R&D team members and assign admin-level roles within this projectDeploy the NKP clusters into the 'R&D' workspace
- C. Create an 'R&D' NKP connector and infrastructure providerCreate an 'R&D' NKP group and assign it admin-level rolesAssign the 'R&D' NKP group to the 'R&D' NKP connectorDeploy the NKP clusters into the 'R&D' workspace
- D. Create an 'R&D' NKP connector and infrastructure providerCreate an 'R&D' NKP group and assign it admin-level rolesAssign the 'R&D' NKP group to the 'R&D' NKP infrastructure providerDeploy the NKP clusters into the 'R&D' workspace

Answer: A

NEW QUESTION # 55
A Platform Engineer works for a service provider and needs to establish access and authentication for multiple clients into an NKP cluster. Each client has their own LDAP source that should be used for authentication into the cluster.
How would this be accomplished?

- A. An NKP project would be created for each client and an LDAP connector would be created for each NKP project. Users would provide the project name their company was assigned as part of their login.
- B. A common LDAP source needs to be established and client specific groups and users need to be configured within this common LDAP provider. Then an LDAP connector would be created for this LDAP provider.
- C. The LDAP connector configuration would be modified to include an array for each client LDAP source to authenticate with. Users would provide the client name defined in the array as part of their login.
- D. An NKP workspace needs to be created for each client and an LDAP connector would be created for each NKP workspace.

Answer: D

Explanation:
NKPA 6.10 recommends leveraging workspaces to isolate different tenants (clients) in a multi-tenant environment. LDAP connectors can be scoped to individual workspaces, allowing separate authentication and RBAC configurations per client.
Key reference from documentation:
"In multi-tenant scenarios, create a dedicated workspace for each tenant and configure a unique LDAP connector within that workspace to integrate their identity source." Reference:
Nutanix Kubernetes Platform Administration (NKPA) 6.10 - "Multi-tenancy with Workspaces and LDAP" NCP-CN 6.10 Study Guide - "Managing Multiple LDAP Connectors in Workspaces"
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NEW QUESTION # 56
A Platform Engineer would like to deploy an NKP Platform Application to all the clusters within an NKP workspace from the command line. What is the command set to use, and what parameters must be specified with it?

- A. The nkp create appdeployment command set would be utilized. The application ID & version, as well as the NKP workspace of the clusters, must be provided.
- B. The nkp deploy app command set would be utilized. The application ID, as well as the NKP workspace of the clusters, must be provided.
- C. The kubectl create appdeployment command set would be utilized. The application ID, as well as the NKP workspace of the clusters, must be provided.
- D. The nkp deploy platform-app command set would be utilized. The application ID, as well as the NKP workspace of the clusters, must be provided.

Answer: A

Explanation:
NKP Platform Applications (e.g., Rook Ceph, Prometheus, Fluent Bit) are pre-integrated tools that can be deployed to Kubernetes clusters within a workspace to provide services like storage, monitoring, and logging.
The NKPA course specifies that to deploy a platform application to all clusters in a workspace from the command line, the engineer uses the nkp create appdeployment command. This command creates an application deployment resource that targets the specified workspace and clusters.
The required parameters include the application ID (to identify the platform application), the version (to specify the desired version of the application), and the NKP workspace (to define the scope of clusters). For example: nkp create appdeployment --app-id prometheus --version 2.30.0 --workspace fin-vd. The Nutanix Cloud Native (NCP-CN) 6.10 Study Guide states: "Use the nkp create appdeployment command to deploy platform applications, specifying the application ID, version, and target workspace to apply the deployment across all clusters in that workspace." Incorrect Options:
* B. nkp deploy platform-app: This is not a valid NKP command. The correct command is nkp create appdeployment.
* C. nkp deploy app: This is not a recognized command in the NKPA documentation.
* D. kubectl create appdeployment: kubectl interacts with Kubernetes resources, not NKP-specific platform applications.
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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 # 57
During a deployment of NKP, a Platform Engineer received an error indicating an issue with the bootstrap. While troubleshooting with support, the engineer noticed that the KUBECONFIG file was missing. How would the engineer recreate the bootstrap cluster and create a context file named bootstrap-cluster.conf?

- A. nkp create bootstrap --kubeconfig bootstrap-cluster.conf
- B. nutanix create bootstrap --kubeconfig bootstrap-cluster.conf
- C. kubectl create bootstrap --kubeconfig bootstrap-cluster.conf
- D. d2iq create bootstrap --kubeconfig bootstrap-cluster.conf

Answer: A

NEW QUESTION # 58
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