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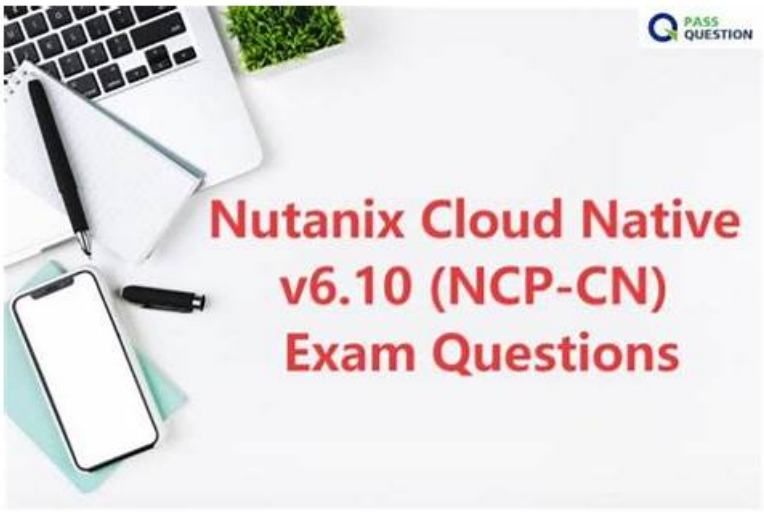

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Nutanix NCP-CN Exam Syllabus Topics:

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	• 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	• 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.

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Nutanix Certified Professional - Cloud Native v6.10 Sample Questions (Q85-Q90):

NEW QUESTION # 85
There is a private registry for the NKP deployment and the company has an NKP Ultimate license. A Platform Engineer is using the Podman tool and is already logged in. Now, the engineer needs to send the private registry with the NKP Catalog Applications.
What command should the engineer use?

- A. nkp push bundle --bundle ./container-images/nkp/catalog-applications-image-bundle-v2.12.0.tar --to-registry=${REGISTRY_URL} --to-registry-username=${REGISTRY_USERNAME} --to-registry-password=${REGISTRY_PASSWORD}
- B. podman load -i ./container-images/nkp/catalog-applications-image-bundle-v2.12.0.tar
- C. nkp apply bundle -f ./container-images/nkp/catalog-applications-image-bundle-v2.12.0.tar --to-registry=${REGISTRY_URL} --to-registry-username=${REGISTRY_USERNAME} --to-registry-password=${REGISTRY_PASSWORD}
- D. docker load -i ./container-images/nkp/catalog-applications-image-bundle-v2.12.0.tar

Answer: A

Explanation:
To push the NKP Catalog Applications image bundle to a private registry, the official nkp push bundle command must be used with the specified parameters to authenticate and push the bundle to the registry.
Exact extract:
"Use the nkp push bundle command to upload the NKP catalog applications image bundle to the specified private registry, ensuring secure and complete image upload." Reference:
Nutanix Kubernetes Platform Administration (NKPA) 6.10 - "Pushing Catalog Applications to Private Registries" NCP-CN 6.10 Study Guide - "Private Registry Integration for NKP"

NEW QUESTION # 86
A company is required by NIST to follow FIPS guidelines for compliance.
What is the first step for enabling FIPS in NKP?

- A. Run the command nkp cluster create <provisioner> <options> --fips
- B. Run the command export FIPS_ENABLED=true
- C. Click Enable in the NKP Kommander Web UI, Global Workspace -> Settings -> FIPS menu.
- D. Follow the OS vendor's instructions to ensure that the OS or OS images are prepared for operating in FIPS mode.

Answer: D

Explanation:
According to the NKPA 6.10 documentation under the "Preparing for FIPS Compliance" section, the first step for enabling FIPS in an NKP environment is to ensure that the underlying operating system (OS) or OS images are correctly configured for FIPS mode. The Nutanix Kubernetes Platform can only leverage FIPS- compliant cryptographic modules if the underlying OS is already configured for FIPS operation.
Specifically, the documentation states:
"Before enabling FIPS in NKP, ensure that the OS or OS images are prepared and configured to operate in FIPS mode, following the vendor's guidelines. Once the OS is in FIPS mode, the NKP cluster components can be provisioned with FIPS support." This

foundational step is critical to ensure cryptographic consistency and compliance throughout the NKP stack.
Reference:
Nutanix Kubernetes Platform Administration (NKPA) 6.10 - "FIPS Compliance" NCP-CN 6.10 Study Guide - "Preparing OS Images for FIPS"
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NEW QUESTION # 87
An administrator is provisioning an NKP cluster. After the VM creation task, the error shown in the exhibit is produced.
What could be the reason?

- A. Private registry software or version is not the recommended.
- B. VM does not have the Linux version.
- C. VM doesn't have communication to the registry.
- D. NKP Software is not loaded in the registry.

Answer: C

Explanation:
The error states:
pgsql
Copy
error upgrading CAPI components: unable to upgrade CAPI components: deployment "capp-controller- manager" is not ready after 10m0s: failed to connect to the management cluster: context deadline exceeded This clearly points to connectivity issues between the VM (or nodes) and the management cluster, typically caused by registry communication issues in air-gapped or private environments. When the VM cannot connect to the registry to pull required images or configuration, the CAPI (Cluster API) components cannot be initialized, causing a timeout.
Key Reference:
* Nutanix Kubernetes Platform Administration (NKPA) 6.10 - "Air-Gapped and Registry Communication Issues"
* NCP-CN 6.10 Study Guide - "Cluster API Upgrade Process and Network Prerequisites"
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NEW QUESTION # 88
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 rhel8.6What is a requirement for deploying a new cluster in AWS?

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

Answer: B

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 # 89
A DevOps team faces a growing challenge of managing logs from multiple applications in an NKP cluster. With several teams working on different projects, it is essential to implement a Multi-Tenant Logging system that allows each team to access their own

logs securely and efficiently. Initially, two namespaces have been configured for each project, as shown in the exhibit. Then a ConfigMap has also been configured for each tenant, which contains the logging configuration. Which YAML output corresponds to a retention period of 30 days for tenant-innovation and seven days for tenant-analytics?

- A. yamlCollapseWrapCopyapiVersion: v1kind: ConfigMapmetadata:name: logging-innovation-configmapnamespace: tenant-innovationdata:values.yaml: |loki:structuredConfig:limits_config:retention_period: 30h---apiVersion: v1kind: ConfigMapmetadata:name: logging-analytics-configmapnamespace: tenant-analyticsdata:values.yaml: |loki:structuredConfig:limits_config:retention_period: 7h
- B. yamlCollapseWrapCopyapiVersion: v1kind: ConfigMapmetadata:name: logging-innovation-configmapnamespace: tenant-innovationdata:values.yaml: |loki:structuredConfig:limits_config:retention_period: 30d---apiVersion: v1kind: ConfigMapmetadata:name: logging-analytics-configmapnamespace: tenant-innovationdata:values.yaml: |loki:structuredConfig:limits_config:retention_period: 7d
- C. yamlCollapseWrapCopyapiVersion: v1kind: ConfigMapmetadata:name: logging-innovation-configmapnamespace: tenant-innovationdata:values.yaml: |loki:structuredConfig:limits_config:retention_period: 30d---apiVersion: v1kind: ConfigMapmetadata:name: logging-analytics-configmapnamespace: tenant-analyticsdata:values.yaml: |loki:structuredConfig:limits_config:retention_period: 7d
- D. yamlCollapseWrapCopyapiVersion: v1kind: ConfigMapmetadata:name: logging-innovation-configmapnamespace: tenantdata:values.yaml: |loki:structuredConfig:limits_config:retention_period: 30d---apiVersion: v1kind: ConfigMapmetadata:name: logging-analytics-configmapnamespace: tenantdata:values.yaml: |loki:structuredConfig:limits_config:retention_period: 7d

Answer: C

NEW QUESTION # 90

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