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Nutanix NCP-CN Exam Syllabus Topics:

Topic	Details

Topic 1	<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 2	<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 3	<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 4	<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.

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

NEW QUESTION # 83

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

Answer: A

NEW QUESTION # 84

A Platform Engineer is preparing to deploy an NKP cluster in an air-gapped environment. The NKP cluster will be deployed on Nutanix infrastructure using the CAPI Nutanix provisioner (CAPX). The engineer has decided to create the bootstrap cluster first, then NIB-prep an Ubuntu 22.04 OS image that the Linux engineering team has provided in Prism Central. After that, the engineer will deploy the NKP cluster.

However, during the first step of creating a bootstrap cluster, the engineer received the error shown in the exhibit. What could be the reason?

- A. The Ubuntu 22.04 OS image needs to be NIB-prepped prior to creating the bootstrap.
- B. The bootstrap cluster image needs to be loaded prior to creating the bootstrap cluster.**
- C. The CAPI provisioning method needs to be specified as part of the command nkp create bootstrap nutanix.
- D. The nkp create bootstrap command needs to be executed as root.

Answer: B

Explanation:

The exhibit indicates an error during the creation of a bootstrap cluster using the nkp create bootstrap command in an air-gapped

environment. The NKPA course explains that a bootstrap cluster is a temporary Kubernetes cluster used to initialize Cluster API (CAPI) components for provisioning the target NKP cluster.

In an air-gapped environment, all required resources, including container images, must be available locally since there is no Internet access to pull them from public registries.

The most likely reason for the error is that the bootstrap cluster image needs to be loaded prior to creating the bootstrap cluster (Option B). The course specifies that in air-gapped deployments, the bootstrap cluster image (typically a kind or k3s image used by CAPI) must be pre-loaded into a local container registry or the bastion host before running nkp create bootstrap. This image is part of the Air-Gapped Bundle provided by Nutanix, which includes all necessary container images for NKP deployment. Without pre-loading this image, the nkp create bootstrap command fails because it cannot pull the required image.

The Nutanix Cloud Native (NCP-CN) 6.10 Study Guide states: "In an air-gapped NKP deployment, ensure the bootstrap cluster image (e.g., kindest/node) is loaded into a local registry or host before executing nkp create bootstrap, as the command requires this image to create the temporary cluster." The engineer must extract the bootstrap image from the Air-Gapped Bundle, load it using docker load or similar, and configure the local registry to make it accessible during the bootstrap process.

Incorrect Options:

- * A. The CAPI provisioning method needs to be specified as nkp create bootstrap nutanix: The nkp create bootstrap command does not require a provisioning method like nutanix at this stage; the provider (e.g., CAPX for Nutanix) is specified during the actual cluster creation (nkp create cluster), not bootstrap creation.
- * C. The Ubuntu 22.04 OS image needs to be NIB-prepped prior to creating the bootstrap: The Ubuntu 22.04 image is for the target NKP cluster nodes, not the bootstrap cluster, which uses a pre-built image (e.g., kind). NIB-prepping this image is a later step.
- * D. The nkp create bootstrap command needs to be executed as root: While some commands may require elevated privileges, the NKPA course does not specify that nkp create bootstrap must be run as root. The error is more likely related to missing images in an air-gapped setup.

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Nutanix Kubernetes Platform Administration (NKPA) Course, Section on Bootstrap Cluster Creation in Air-Gapped Environments.

Nutanix Cloud Native (NCP-CN) 6.10 Study Guide, Chapter on Air-Gapped Deployments.

Nutanix Cloud Bible, NutanixKubernetesPlatform Section: <https://www.nutanixbible.com> Cluster API Documentation: <https://cluster-api.sigs.k8s.io>

NEW QUESTION # 85

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

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 # 86

A Platform Engineer manages an NKP environment and is preparing a machine image to become an NKP cluster node. Which statement is correct regarding the default node preparation process?

- A. Packer is used to make the OS image CAPI-compliant for use as an NKP node.

- B. Terraform is utilized to clone an existing OS image for use as an NKP node.
- C. Ansible is used to make the OS image CAPI-compliant for use as an NKP node.
- D. Goss is used to harden the OS image for use as an NKP node.

Answer: A

NEW QUESTION # 87

A Platform Engineer for an organization needs to deploy NKP into AWS while using custom credentials for authenticating. Which flag should the engineer use when starting to bootstrap the cluster installation?

--aws-profile=<my-profile>
 B. --cloud-credentials=<my-profile>
 C. --with-aws-bootstrap-credentials=true
 D. --aws-access-key=<aws access="" key=""> --aws-secret-key=<aws secret="" key=""></aws></aws></my-profile>

Answer:

Explanation:

When deploying NKP to AWS, the bootstrap process requires AWS credentials to interact with AWS APIs for provisioning resources like EC2 instances. The NKPA course specifies that the nkp CLI supports the --aws-profile flag to specify a custom AWS profile for authentication. This profile, defined in the AWS credentials file (`~/.aws/credentials`), contains the access key and secret key for the desired AWS account.

The Nutanix Cloud Native (NCP-CN) 6.10 Study Guide states: "To deploy NKP on AWS with custom credentials, use the --aws-profile=<profile-name> flag during the nkp create bootstrap command to reference a specific AWS profile." This approach leverages the AWS CLI's profile management, ensuring secure and flexible credential handling. For example, the command would be `nkp create bootstrap --aws-profile=my-profile --kubeconfig bootstrap-cluster.conf`.

Incorrect Options:

* B. --cloud-credentials=<my-profile></my-profile>: This flag is not used by the nkp CLI. The NKPA course specifies --aws-profile for AWS.

* C. --with-aws-bootstrap-credentials=true: This flag does not exist in the NKPA documentation for NKP bootstrap.

* D. --aws-access-key=<aws access="" key=""> --aws-secret-key=<aws secret="" key=""></aws></aws>: While these flags may be used in some tools, the NKPA course recommends using --aws-profile to avoid hardcoding sensitive credentials.

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

Nutanix Cloud Native (NCP-CN) 6.10 Study Guide, Chapter on Bootstrap Configuration.

Nutanix Cloud Bible, NutanixKubernetesPlatform Section: <https://www.nutanixbible.com> AWS CLI Documentation: <https://docs.aws.amazon.com/cli>

NEW QUESTION # 88

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