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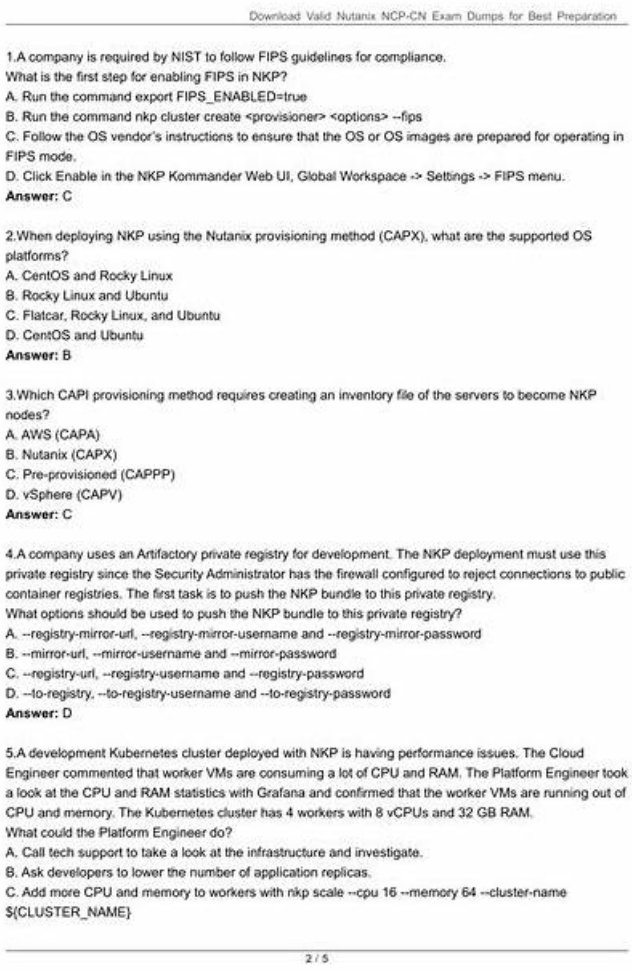

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1.A company is required by NIST to follow FIPS guidelines for compliance.
What is the first step for enabling FIPS in NKP?
A. Run the command export FIPS_ENABLED=true
B. Run the command nkp cluster create <provisioner> <options> --fips
C. Follow the OS vendor's instructions to ensure that the OS or OS images are prepared for operating in FIPS mode.
D. Click Enable in the NKP Kommander Web UI, Global Workspace -> Settings -> FIPS menu.
Answer: C

2.When deploying NKP using the Nutanix provisioning method (CAPX), what are the supported OS platforms?
A. CentOS and Rocky Linux
B. Rocky Linux and Ubuntu
C. Flatcar, Rocky Linux, and Ubuntu
D. CentOS and Ubuntu
Answer: B

3.Which CAPI provisioning method requires creating an inventory file of the servers to become NKP nodes?
A. AWS (CAPA)
B. Nutanix (CAPX)
C. Pre-provisioned (CAPPP)
D. vSphere (CAPV)
Answer: C

4.A company uses an Artifactory private registry for development. The NKP deployment must use this private registry since the Security Administrator has the firewall configured to reject connections to public container registries. The first task is to push the NKP bundle to this private registry.
What options should be used to push the NKP bundle to this private registry?
A. --registry-mirror-url, --registry-mirror-username and --registry-mirror-password
B. --mirror-url, --mirror-username and --mirror-password
C. --registry-url, --registry-username and --registry-password
D. --to-registry, --to-registry-username and --to-registry-password
Answer: D

5.A development Kubernetes cluster deployed with NKP is having performance issues. The Cloud Engineer commented that worker VMs are consuming a lot of CPU and RAM. The Platform Engineer took a look at the CPU and RAM statistics with Grafana and confirmed that the worker VMs are running out of CPU and memory. The Kubernetes cluster has 4 workers with 8 vCPUs and 32 GB RAM.
What could the Platform Engineer do?
A. Call tech support to take a look at the infrastructure and investigate.
B. Ask developers to lower the number of application replicas.
C. Add more CPU and memory to workers with nkp scale --cpu 16 --memory 64 --cluster-name ${CLUSTER_NAME}

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Nutanix NCP-CN Prüfungsplan:

Thema	Einzelheiten
Thema 1	• 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.

Thema 2	• 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.
Thema 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.
Thema 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.

NCP-CN Ausbildungsressourcen - NCP-CN Prüfungsfragen

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Nutanix Certified Professional - Cloud Native v6.10 NCP-CN Prüfungsfragen mit Lösungen (Q32-Q37):

32. Frage
A Platform Engineer is preparing an AWS instance using KIB for becoming an NKP cluster node. During the process, the source AMI is successfully cloned, and multiple preparation steps have occurred against the cloned AMI, such as gathering OS-release facts and uploading image bundles to it. However, the process encounters an error and ultimately fails. What is one troubleshooting step the engineer can perform that may help identify the root cause of the issue?

- A. Rerun the KIB command, including the parameter to instruct Ansible not to automatically delete the cloned AMI on error. This way the OS image can be accessed and further inspected.
- B. Rerun the KIB command, including the parameter to instruct Packer not to automatically delete the cloned AMI on error. This way the OS image can be accessed and further inspected.
- C. Rerun the KIB command, including the pause parameter, so that each command in the KIB-prep sequence and its return can be reviewed in detail before allowing the prep process to continue.
- D. Rerun the KIB command, including the parameter to set the verbosity level to debug, so that all issued AWS CLI commands and their returns are included and added to an exported log file for review.

Antwort: D

33. Frage
A corporate IT team provides Kubernetes clusters for three groups within the company:
* Fin VD
* Fin Insurance
* Fin TravelThe IT group needs to federate policy for all Kubernetes clusters from a single pane of glass, but separate the

Kubernetes clusters according to the group that uses them. How should the IT team license and configure their NKP environment to satisfy these requirements?

- A. NKP Pro for project management, creating three projects and assigning the corresponding Kubernetes cluster to each project.
- B. NKP Ultimate for fleet management, creating three workspaces and assigning the corresponding Kubernetes cluster to each workspace.
- C. NKP Starter for Kubernetes management, creating Kubernetes clusters for every company.
- D. NKP Pro for workspace management, creating three workspaces and assigning the corresponding Kubernetes cluster to each workspace.

Antwort: B

Begründung:
The NKPA course explains that NKP's fleet management capabilities allow centralized policy federation and management of multiple Kubernetes clusters from a single pane of glass, while workspaces provide isolation for different teams or groups. To meet the requirement of federating policy while separating clusters by group, the IT team needs the NKP Ultimate license, which includes advanced fleet management features.
With NKP Ultimate, the IT team can:
* Create three workspaces (one for each group: Fin VD, Fin Insurance, Fin Travel).
* Assign the corresponding Kubernetes clusters to each workspace, ensuring isolation between groups.
* Use NKP's fleet management to apply policies (e.g., RBAC, monitoring, logging) across all clusters from a single pane of glass, such as the NKP UI or CLI.
The Nutanix Cloud Native (NCP-CN) 6.10 Study Guide states: "NKP Ultimate provides fleet management for centralized policy federation across multiple clusters, using workspaces to isolate clusters for different teams or groups." This setup ensures that each group's clusters are separated while maintaining centralized policy management, aligning with the IT team's requirements.
Incorrect Options:
* B. NKP Starter: The Starter license lacks fleet management and workspace isolation features, making it unsuitable for this scenario.
* C. NKP Pro with projects: Projects are sub-divisions within workspaces for resource allocation, not for cluster isolation or fleet management. NKP Pro may not include full fleet management capabilities.
* D. NKP Pro with workspaces: While NKP Pro supports workspaces, it may not provide the full fleet management needed for centralized policy federation across all clusters. NKP Ultimate is the better fit.
:
Nutanix Kubernetes Platform Administration (NKPA) Course, Section on Fleet Management and Workspaces.
Nutanix Cloud Native (NCP-CN) 6.10 Study Guide, Chapter on Licensing and Fleet Management.
Nutanix Cloud Bible, NutanixKubernetesPlatform Section: https://www.nutanixbible.com

34. Frage
Refer to the exhibit.

A current Nutanix cluster is hosting an NKP cluster and a production Kubernetes cluster named production.
Infrastructure administrators recently added three nodes with NVidia GPUs for a new AI initiative, and now a Platform Engineer has been asked to add three workers with the GPUs to the production Kubernetes cluster.
Which first step should the engineer take to achieve this task?

- A. Create a GPU-compatible OS Image with:
  text
  CollapseWrap
  Copy
  nkp create image nutanix --gpu \
  --gpu-name=${GPU_NAME} \
  --cluster=${NUTANIX_CLUSTER_NAME} \
  --endpoint=${NUTANIX_PC_ENDPOINT} \
  --subnet=${NUTANIX_SUBNET} ubuntu-22.04
- B. Configure Multi-Instance GPU (MIG):

text
CollapseWrap
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kubectl label nodes ${NODE} nvidia.com/mig.config=all-1g.6gb -overwrite

- C. Add the GPU Operator to the new workers:
  text
  CollapseWrap
  Copy
  cat <<EOF | kubectl apply -f -
  kind: Installation
  apps:
  nvidia-gpu-operator:
  enabled: true
  values: |
  toolkit:
  nodepool: md-0
  EOF
- D. Create a nodepool of workers with GPU:
  text
  CollapseWrap
  Copy
  nkp create nodepool nutanix -c $CLUSTER_NAME \
  --vm-image $NAME_OF_GPU_OS_IMAGE_CREATED_BY_NKP_CLI \
  -o yaml --subnets $NUTANIX_SUBNET_NAME \
  --prism-element-cluster $NUTANIX_PRISM_ELEMENT_CLUSTER_NAME \
  $NODEPOOL_NAME

Antwort: A

Begründung:
Comprehensive and Detailed Explanation From Exact Extract of Nutanix Kubernetes Platform Administration (NKPA) Course:
The NKPA course outlines the process of adding GPU-enabled worker nodes to an existing NKP-managed Kubernetes cluster, such as the production cluster in this scenario. The first step in this process is to ensure that a GPU-compatible OS image is available for the new worker nodes, as GPU support requires specific drivers and configurations (e.g., NVIDIA drivers) that are not included in standard OS images.
The correct first step is to create a GPU-compatible OS image using the command:
text
CollapseWrap
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nkp create image nutanix --gpu \
--gpu-name=${GPU_NAME} \
--cluster=${NUTANIX_CLUSTER_NAME} \
--endpoint=${NUTANIX_PC_ENDPOINT} \
--subnet=${NUTANIX_SUBNET} ubuntu-22.04
(Option D). This command uses the NKP CLI to create a machine image based on Ubuntu 22.04, tailored for Nutanix AHV infrastructure (nutanix) with GPU support enabled (--gpu). The --gpu-name flag specifies the GPU type (e.g., NVIDIA GPU model), and other parameters define the Nutanix cluster, Prism Central endpoint, and subnet for image creation. The resulting image includes the necessary NVIDIA drivers and dependencies, making it suitable for GPU-enabled worker nodes. The Nutanix Cloud Native (NCP-CN) 6.10 Study Guide states: "Before adding GPU-enabled workers to an NKP cluster on Nutanix, the first step is to create a GPU-compatible OS image using nkp create image nutanix --gpu, ensuring the image includes the required GPU drivers for the target infrastructure." This image is then used in subsequent steps (like Option A) to create a node pool with GPU-enabled workers.
Without this image, the node pool creation in Option A would fail due to the lack of a suitable --vm-image.
Incorrect Options:
* A. Create a nodepool of workers with GPU: This step requires a pre-existing GPU-compatible OS image (specified via --vm-image). Since the question does not indicate that such an image already exists, creating the image (Option D) must happen first.
* B. Add the GPU Operator to the new workers: The NVIDIA GPU Operator can be installed to manage GPU resources, but this step occurs after the GPU-enabled workers are added to the cluster, not as the first step.
* C. Configure Multi-Instance GPU (MIG): MIG configuration is an advanced GPU setup step that occurs after the workers are added and the GPU Operator is installed, not as the first step.
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Nutanix Kubernetes Platform Administration (NKPA) Course, Section on GPU Support in NKP Clusters.
Nutanix Cloud Native (NCP-CN) 6.10 Study Guide, Chapter on Managing NKP Clusters.
Nutanix Cloud Bible, NutanixKubernetesPlatform Section: https://www.nutanixbible.com NVIDIA GPU Operator Documentation: https://docs.nvidia.com/datacenter/cloud-native/gpu-operator Before adding GPU-enabled worker nodes to the cluster, a GPU-compatible OS image must be created. This ensures that the required drivers and kernel modules are present for GPU workloads. This step is critical as it ensures the OS image is properly prepared for GPU operations before the nodes are integrated into the cluster.
References: Nutanix Kubernetes Platform Administration Guide - GPU Node Preparation and Image Management

35. Frage
A Kubernetes administrator needs to ensure that the following requirements are met whenever a new workload cluster is deployed to a workspace:
* Grafana Logging
* Grafana Loki
* Project LoggingHow would the administrator ensure that these components are deployed as part of a cluster deployment?

- A. Enable them in the Insights section under workspace.
- B. Enable them in the Application section under workspace.
- C. Enable them in the Projects section under workspace.
- D. Enable them in the Clusters section under workspace.

Antwort: B

Begründung:
The NKPA course details that NKP Platform Applications, such as Grafana Logging, Grafana Loki, and Project Logging, are deployed to Kubernetes clusters to provide monitoring and logging capabilities. To ensure these components are automatically deployed to new workload clusters in a workspace, the administrator must enable them in the Application section under the workspace configuration in the NKP UI.
The course explains that the Application section allows administrators to select and configure platform applications that should be applied to all clusters within a workspace. By enabling Grafana Logging, Grafana Loki (for log aggregation), and Project Logging (for project-specific log management), these components are automatically deployed as part of the cluster provisioning process. The Nutanix Cloud Native (NCP-CN) 6.10 Study Guide states: "To deploy platform applications like Grafana Loki and logging components to new clusters, configure them in the Application section of the workspace settings in the NKP UI." Incorrect Options:
* A. Enable them in the Insights section under workspace: The Insights section is for analytics and monitoring dashboards, not for deploying logging components.
* B. Enable them in the Projects section under workspace: Projects are sub-divisions within workspaces for resource allocation, not for configuring platform applications.
* C. Enable them in the Clusters section under workspace: The Clusters section is for managing cluster settings, not for enabling platform applications.
:
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

36. Frage
A Platform Engineer is deploying an NKP workload cluster using the nkp create cluster vsphere command.
The cluster will be utilized by the company's code-green team and the engineer has already created a code- green NKP workspace on the NKP management cluster.
After issuing the deploy command, the engineer monitored the build using the nkp describe cluster command and confirmed it completed successfully. However, a few hours later, after logging into the NKP UI, the engineer checked the code-green NKP workspace and saw that the NKP workload cluster was not there.
What is the likely reason the NKP workload cluster is not in the code-green NKP workspace?

- A. NKP vSphere clusters cannot be assigned NKP workspaces and instead are assigned the default NKP workspace. The cluster can be viewed from this workspace instead.
- B. The engineer did not supply the --namespace code-green parameter as part of the nkp create cluster vsphere command, therefore it was created in the default workspace and needs to be manually attached.
- C. The vSphere cluster cannot be displayed in the NKP UI unless its Kubernetes version is within 'N - 1' versions of the

NKP management cluster's Kubernetes version.

- D. The vSphere service account credentials had expired prior to the engineer's attempt to view the cluster in the NKP UI. Once the credentials are refreshed, the vSphere cluster will reappear in the NKP workspace.

Antwort: B

Begründung:
The NKPA 6.10 documentation clarifies that when creating a workload cluster using the nkp create cluster command, specifying the target workspace (namespace) is critical for properly associating the workload cluster with that workspace in the NKP UI. If the --namespace <workspace> parameter is omitted, the cluster is provisioned in the default workspace, not in the intended workspace (in this case, code-green).
Key documentation excerpt:
"If you do not specify the workspace (namespace) using the --namespace parameter when creating a cluster, the cluster will be created in the default workspace. It will not appear in custom workspaces until manually assigned." Reference:
Nutanix Kubernetes Platform Administration (NKPA) 6.10 - "Creating Workload Clusters" NCP-CN 6.10 Study Guide - "Namespace and Workspace Mapping for Workload Clusters"
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37. Frage
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Haben Sie gedacht, wie Nutanix NCP-CN Zertifizierungsprüfung leicht bestehen? Haben Sie die Geräte finden? Wenn nein, erkläre ich zu Ihnen. Es gibt viele Methoden, die NCP-CN Prüfung zu bestehen. Sehr fleißig die entsprechenden Bücher zu lesen, ist eine Methode. Machen Sie jetzt das? Aber diese Methode kostet dich viel Zeit und kann den Erfolg vielleicht nicht erreichen. Und Gibt es nicht genug Zeit für Sie, wenn Sie sich mit der Arbeit sehr beschäftigt sind? Lassen Sie Nutanix NCP-CN Dumps probieren. Diese Unterlagen können den Erfolg erreichen, woran Sie nicht glauben könnten.