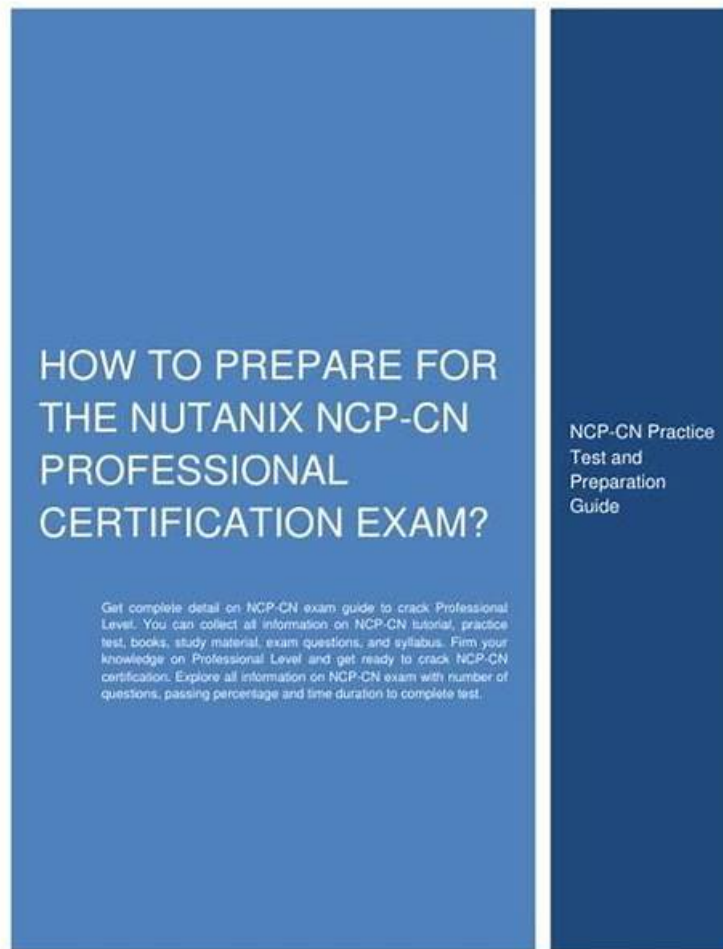


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### Nutanix NCP-CN Exam Syllabus Topics:

| Topic | Details |
|-------|---------|
|-------|---------|

|         |  |
|---------|--|
| Topic 1 | <ul style="list-style-type: none"> <li>• <b>Manage Building an NKP Cluster:</b> 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.</li> </ul>   |
| Topic 2 | <ul style="list-style-type: none"> <li>• <b>Prepare the Environment for an NKP Deployment:</b> 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.</li> </ul> |
| Topic 3 | <ul style="list-style-type: none"> <li>• <b>Conduct NKP Fleet Management:</b> 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.</li> </ul>  |
| Topic 4 | <ul style="list-style-type: none"> <li>• <b>Perform Day 2 Operations:</b> 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.</li> </ul>   |

## Nutanix Certified Professional - Cloud Native v6.10 Sample Questions (Q12-Q17):

### NEW QUESTION # 12

Recently, the reliability of some developer platforms has been impacted by out-of-memory errors, causing pods to crash and then remain in a pending state. A Cloud Engineer has been tasked with collecting and reviewing centralized metrics across the various platform environments to identify differences between them and better understand what is causing these performance issues. What should the engineer do to address this request?

- A. Utilize Fluentd and Fluent Bit to collect and present centralized metrics on NKP attached and managed clusters. Then visualize these collected and centralized metrics in Grafana.
- B. Utilize Fluentd and Fluent Bit to collect and present centralized metrics on NKP attached and managed clusters. Then configure Thanos Query to monitor and send out alerts based on the metric thresholds that have been configured within it.
- C. Utilize Thanos to collect and present centralized metrics on NKP attached and managed clusters. Then visualize these collected and centralized metrics in Grafana.
- **D. Utilize Prometheus to collect and present centralized metrics on NKP attached and managed clusters. Then configure Thanos Query to monitor and send out alerts based on the metric thresholds that have been configured within it.**

**Answer: D**

Explanation:

The NKPA course details NKP's monitoring stack for collecting and analyzing metrics across attached and managed clusters, which is critical for troubleshooting issues like out-of-memory errors. The engineer needs to collect centralized metrics and set up alerting to identify performance issues. The correct approach is to use Prometheus for metrics collection and Thanos Query for alerting (Option C).

\* Utilize Prometheus to collect and present centralized metrics on NKP attached and managed clusters: Prometheus is NKP's default metrics collection tool, deployed as a platform application. It scrapes metrics (e.g., CPU, memory usage) from nodes, pods, and services across all clusters in a workspace, centralizing them for analysis. The Nutanix Cloud Native (NCP-CN) 6.10 Study Guide states: "Prometheus is used in NKP to collect and present centralized metrics from attached and managed clusters, enabling detailed performance analysis." This is ideal for identifying differences in memory usage causing the out-of-memory errors.

\* Configure Thanos Query to monitor and send out alerts based on the metric thresholds that have been configured within it: Thanos Query, part of NKP's monitoring stack, aggregates Prometheus metrics across clusters and provides a unified query interface. It also

integrates with Alertmanager to send alerts based on configured thresholds (e.g., memory usage > 90%). The NKPA course notes: "Use Thanos Query to monitor metrics across NKP clusters and configure alerts with Alertmanager to notify engineers of performance issues like out-of-memory errors." This setup helps the engineer proactively address the issue.

Incorrect Options:

\* A & B. Utilize Fluentd and Fluent Bit: Fluentd and Fluent Bit are logging tools in NKP, used for collecting logs, not metrics.

Metrics collection requires Prometheus.

\* D. Utilize Thanos to collect and present centralized metrics: Thanos does not collect metrics directly; it extends Prometheus by providing long-term storage and query aggregation. Prometheus is the primary collection tool.

:

Nutanix Kubernetes Platform Administration (NKPA) Course, Section on Monitoring and Metrics.

Nutanix Cloud Native (NCP-CN) 6.10 Study Guide, Chapter on Day 2 Operations.

Nutanix Cloud Bible, NutanixKubernetesPlatform Section: <https://www.nutanixbible.com> Prometheus Documentation:

<https://prometheus.io> Thanos Documentation: <https://thanos.io>

### NEW QUESTION # 13

An administrator has experienced issues with an NKP-managed workload cluster and has been tasked with deploying NKP Insights in order to:

\* Resolve common anomalies

\* Check security issues

\* Verify whether workloads follow best practices Upon trying to enable NKP Insights, the cluster that needs to be chosen is grayed out. Which missing prerequisite should be enabled?

- A. Rook Ceph
- B. Velero
- C. Nutanix Objects
- **D. Cert-manager**

**Answer: D**

Explanation:

As per the NKPA 6.10 documentation under "NKP Insights Prerequisites", one of the essential requirements for deploying NKP Insights is that cert-manager is installed and properly configured in the target workload cluster. Cert-manager provides the necessary certificates for secure communication and observability between the cluster components and the NKP Insights platform.

The documentation specifies:

"NKP Insights requires cert-manager to be installed on the target workload cluster. If cert-manager is not enabled, the cluster will be shown as unavailable (grayed out) for NKP Insights deployment." Without cert-manager, the Insights operator cannot validate or securely deploy its components, resulting in the cluster being unavailable for selection during the Insights enablement process.

Reference:

Nutanix Kubernetes Platform Administration (NKPA) 6.10 - "Deploying NKP Insights" NCP-CN 6.10 Study Guide - "Cert-manager as a Prerequisite for NKP Insights"

### NEW QUESTION # 14

A Platform Engineer is looking to backup and restore persistent volumes and other cluster resources. Which two NKP licenses include backup and restore functionality? (Choose two.)

- **A. NKP Ultimate**
- B. NKP Essential
- C. NKP Starter
- **D. NKP Pro**

**Answer: A,D**

Explanation:

The NKPA course details that backup and restore functionality in NKP is provided through integration with Velero, which supports backing up persistent volumes, cluster resources, and application data to S3-compatible storage. This functionality is considered an advanced feature and is included in higher-tier NKP licenses: NKP Ultimate and NKP Pro.

\* NKP Ultimate: This top-tier license includes all NKP features, such as air-gapped deployments, fleet management, and backup/restore capabilities. It is designed for enterprise-grade environments requiring comprehensive disaster recovery.

\* NKP Pro: This mid-tier license also includes backup and restore functionality, catering to organizations needing robust data

protection but not necessarily all the features of the Ultimate tier (e.g., air-gapped support).

The Nutanix Cloud Native (NCP-CN) 6.10 Study Guide states: "Backup and restore functionality, powered by Velero, is available in NKP Pro and NKP Ultimate license tiers, enabling protection of persistent volumes and cluster resources." These licenses provide the necessary tools and support for configuring Velero with S3-compatible storage, scheduling backups, and performing restores in production environments.

Incorrect Options:

\* A. NKP Starter: The Starter tier is entry-level and does not include advanced features like backup and restore. It focuses on basic cluster management.

\* B. NKP Essential: This tier, if it exists in NKP's licensing model, would be a lower tier and unlikely to include backup/restore functionality, as it is not mentioned in the NKPA course.

:

Nutanix Kubernetes Platform Administration (NKPA) Course, Section on Backup and Restore.

Nutanix Cloud Native (NCP-CN) 6.10 Study Guide, Chapter on Licensing and Day 2 Operations.

Nutanix Cloud Bible, NutanixKubernetesPlatform Section: <https://www.nutanixbible.com>

### NEW QUESTION # 15

A dev team needed to optimize their logging system to be more robust, because the CPU and memory limits were insufficient, which caused delays in log collection and processing during times of high demand.

After a deep performance analysis, they decided to increase the CPU limits from 1 to 4 and the memory from 1000Mi to 4Gi.

Which ConfigMap should the development team run with custom resource requests and limit values for fluentd?

- A. bash  
Copy  
[nutanix@nkp-boot ~]\$ cat <<EOF > configmap.yaml  
apiVersion v1  
kind ConfigMap  
metadata  
name logging-operator-logging-overrides  
namespace kommander  
data  
values.yaml |  
fluentd  
resources  
limits  
cpu 4  
EOF  
values.yaml |  
fluentd  
resources  
limits  
cpu 4  
memory 4Gi  
requests  
cpu 1  
memory 1000Mi  
EOF
- B. bash  
Copy  
[nutanix@nkp-boot ~]\$ cat <<EOF > configmap.yaml  
apiVersion v1  
kind ConfigMap  
metadata  
name logging-operator-logging-overrides  
namespace kommander  
data  
values.yaml |  
fluentd  
resources

```
limits
cpu 1
memory 1000Mi
requests
cpu 4
memory 4Gi
EOF
```

- C. bash

Copy

```
[nutanix@nkp-boot ~]$ cat <<EOF > configmap.yaml
apiVersion: v1
kind: ConfigMap
metadata:
  name: logging-operator-logging-overrides
  namespace: kommander
data:
  values.yaml: |
  fluentd:
  resources:
  limits:
  cpu: 4
  memory: 4Gi
  requests:
  cpu: 4
  memory: 4Gi
EOF
```

- D. bash

Copy

```
[nutanix@nkp-boot ~]$ cat <<EOF > configmap.yaml
apiVersion: v1
kind: ConfigMap
metadata:
  name: logging-operator-logging-overrides
  namespace: kommander
data:
  values.yaml: |
  fluentd
  resources
  limits
  cpu 4
  memory 1000Mi
  requests
  cpu 1
  memory 4Gi
EOF
```

**Answer: C**

Explanation:

As outlined in the NKPA 6.10 documentation under "Customizing Resource Requests and Limits for Logging," to override the default resource values for the logging operator, a ConfigMap named logging-operator-logging-overrides in the kommander namespace is used. The values.yaml in the ConfigMap should precisely define fluentd resource limits and requests in a valid YAML format.

The correct YAML format is:

yaml

Copy

```
apiVersion: v1
kind: ConfigMap
metadata:
  name: logging-operator-logging-overrides
  namespace: kommander
```

```
data:
values.yaml: |
fluentd:
resources:
limits:
cpu: 4
memory: 4Gi
requests:
cpu: 4
memory: 4Gi
```

This ensures that the desired CPU and memory resources are correctly applied for the fluentd daemon, avoiding parsing errors and meeting the high-demand logging needs.

Reference:

Nutanix Kubernetes Platform Administration (NKP) 6.10 - "Configuring Logging Resources" NCP-CN 6.10 Study Guide - "Overriding Fluentd Resources Using ConfigMap"

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### NEW QUESTION # 16

A Platform Engineer is deploying NKP into a highly secure vSphere environment. The NKP cluster will be air-gapped, and must also be FIPS compliant. The OS platform to be used for NKP cluster nodes is RHEL.

What must the engineer do to properly prep an OS image and have it be deployed as a FIPS compliant NKP cluster node?

- A. Verify the OS itself has been placed in fips mode. When performing the NKP image build operation, be sure to include the offline fips and fips overrides. When performing the NKP cluster deploy operation, be sure to include the FIPS version references for kubernetes, kubectl and etcd.
- B. Verify the OS itself has been placed in fips mode. When performing the NKP image build operation, be sure to include the offline fips override. When performing the NKP cluster deploy operation, be sure to include the FIPS version references for kubernetes and etcd.
- C. Verify the OS itself has been placed in fips mode. When performing the NKP image build operation, be sure to include the offline fips and fips overrides. When performing the NKP cluster deploy operation, be sure to include the FIPS version references for kubernetes and etcd.
- D. Verify the OS itself has been placed in fips mode. When performing the NKP cluster deploy operation, be sure to include the FIPS version references for kubernetes, kubectl and etcd.

**Answer: C**

### NEW QUESTION # 17

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