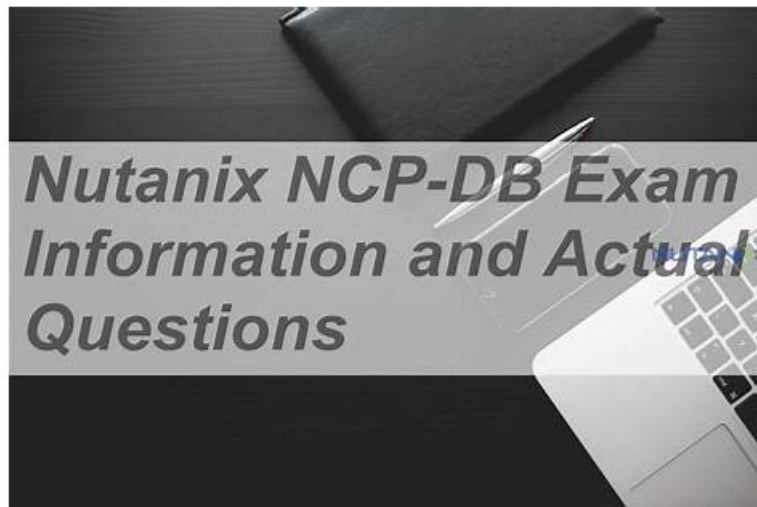


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## Nutanix NCP-DB Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>Describe NDB Concepts: It defines database and NDB terminology. The topic also explains benefits and features of NDB.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>Protect NDB-managed Databases Using Time Machine: SLA retention policies, source databases, clones, protection of databases, and Data Access Management (DAM) policies are discussed in this topic.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>Deploy and Configure an NDB Solution: This topic discusses how to deploy, configure, and NDB Instance.</li></ul>
Topic 4	<ul style="list-style-type: none"><li>Monitor Alerts and Storage Usage Within an NDB Implementation: It is all about monitoring alerts and management of storage usage.</li></ul>
Topic 5	<ul style="list-style-type: none"><li>Administer an NDB Environment: While focusing on the administration of an NDB environment, this topic focuses on managing NDB profiles, applying procedural concepts, and managing networks in NDB. Lastly, the topic explains sub-topics of managing access controls in NDB and identifying how to use NDB APIs and CLI.</li></ul>

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## Nutanix Certified Professional - Database Automation (NCP-DB) v6.5 Sample Questions (Q83-Q88):

### NEW QUESTION # 83

An administrator needs to patch Oracle DB engines, but the Update button is not present in the database server VMs. What could explain the current situation?

- A. Oracle DB engines cannot be patched.
- B. Database parameters are missing.
- C. Software profile is not published.
- **D. OS credentials are not set.**

**Answer: D**

Explanation:

In Nutanix Database Service (NDB), patching Oracle database engines requires the "Update" button to be available on the database server VM's management interface. If this button is missing, it typically indicates a configuration issue preventing NDB from performing the patching operation. The most common and critical reason is that the operating system (OS) credentials for the database server VM have not been set or registered with NDB. These credentials are necessary for NDB to authenticate and execute patching tasks on the VM, such as accessing the Oracle software and applying updates via a software profile.

\* Option A is correct because missing OS credentials prevent NDB from establishing the required connection to the VM, disabling the Update button.

\* Option B (Database parameters are missing) is incorrect because while database parameters are important for configuration, they do not directly control the visibility of the Update button for patching.

\* Option C (Oracle DB engines cannot be patched) is incorrect as NDB explicitly supports patching Oracle databases when properly configured.

\* Option D (Software profile is not published) is incorrect because an unpublished software profile might limit availability to users, but the Update button's presence relies on VM connectivity, not profile publication status.

To resolve this, the administrator must register valid OS credentials for the VM in NDB, enabling the patching functionality.

References

\* Nutanix Database Service (NDB) User Guide, Chapter 4: Managing Software Profiles, Section:

Patching Database Engines

\* Nutanix Support & Insights, Knowledge Base Article: "Troubleshooting Missing Update Button in NDB"

\* Nutanix Certified Professional - Database Automation (NCP-DB) v6.5 Blueprint, Section 4: Manage Database Software Profiles

### NEW QUESTION # 84

A request is received to refresh a database clone from a new manual snapshot. When the administrator attempts to create the new snapshot from the Time Machine, it is in a Frozen state.

What causes a Time Machine to enter the Frozen state and what are the administrator's options to complete the request?

- A. Cause: The Time Machine enters a Frozen state when the database is de-registered without removing the Time Machine. Resolution: The Time Machine must be paused, then the database re-registered with a new Time Machine and a new clone created.
- **B. Cause: The Time Machine enters a Frozen state when the database is de-registered without removing the Time Machine. Resolution: To complete the request the database must be re-registered in NDB, this thaws the Time Machine and it resumes operation so the clone can be refreshed.**
- C. Cause: The Time Machine enters a Frozen state when the database is de-registered without removing the Time Machine. Resolution: To complete the request the database must be re-registered in NDB, create a new Time Machine and create a new clone.
- D. Cause: The Time Machine enters a Frozen state after too many snapshot or log catchup failures. Resolution: Remediate the snapshot or log catchup failures, this thaws the Time Machine, allowing normal operations to continue and the request can be completed.

**Answer: B**

Explanation:

A Time Machine is a core construct of the copy data management service in NDB that captures and manages the data of a database to deliver a recovery point objective (RPO) SLA. A Time Machine can enter a Frozen state for various reasons, such as database

de-registration, snapshot or log catchup failures, or manual intervention. When a Time Machine is in a Frozen state, it stops taking new snapshots and log backups, and cannot perform any clone, refresh, or restore operations. To resume the normal operation of a Time Machine, it must be thawed by resolving the root cause of the freeze. One of the common causes of a Time Machine freeze is when the database is de-registered from NDB without removing the Time Machine. This can happen when the administrator wants to move the database to a different NDB instance or cluster, or when the database is accidentally de-registered. In this case, the Time Machine becomes orphaned and frozen, and cannot be used for any operations. To complete the request to refresh a database clone from a new manual snapshot, the administrator must first re-register the database in NDB using the same database name and ID as before. This will automatically thaw the Time Machine and resume its operation. The administrator can then create a new manual snapshot from the Time Machine and use it to refresh the database clone. The other options are not correct, as they either require unnecessary steps or do not address the root cause of the freeze. References:

\* Nutanix Certified Professional - Database Automation (NCP-DB) v6.5, Section 5 - Protect

\* NDB-managed Databases Using Time Machine, Objective 5.1: Create, delete, and modify SLA retention policies

\* Nutanix Database Management & Automation (NDMA) Course, Module 4: Nutanix Database Service (NDB) Data Protection, Lesson 4.1: Data Protection Overview, Topic: Time Machine Concepts

\* Nutanix Support & Insights, TN-2101: Nutanix Database Service Time Machine Under the Hood, Section: Time Machine States and Transitions

### NEW QUESTION # 85

For supported Linux based database VM's managed by NDB, how would an administrator keep software profiles updated for provisioning new database VMs?

- A. Associate the newly provisioned database VMs with a maintenance window so they are kept updated.
- B. In the Administrator menu drop down, go the Maintenance tab and choose Download Upgrade
- C. Apply patches to a database VM for each supported database engine, then create a new software profile version for each supported database VM for each one using the updated database VM as the source.
- D. Create a Maintenance window under the policy menu, then under Database VM, add the database VMs to that maintenance window and check both Database and Operating system updates.

**Answer: C**

Explanation:

For supported Linux-based database VMs managed by NDB, keeping software profiles updated for provisioning new database VMs requires a structured process. The administrator must first apply the necessary patches (e.g., OS updates and database engine patches) to an existing database VM for each supported database engine (e.g., PostgreSQL, Oracle). Then, a new software profile version must be created using the updated VM as the source. This new version captures the patched configuration and can be used to provision new VMs, ensuring they are deployed with the latest updates.

\* Option A (Create a Maintenance window under the policy menu, then under Database VM, add the database VMs to that maintenance window and check both Database and Operating system updates) is incorrect because a Maintenance Window schedules updates for existing VMs, not for updating software profiles for new provisions.

\* Option B (Apply patches to a database VM for each supported database engine, then create a new software profile version for each supported database VM for each one using the updated database VM as the source) is correct as it follows the standard NDB process for profile updates.

\* Option C (Associate the newly provisioned database VMs with a maintenance window so they are kept updated) is incorrect because this applies to ongoing maintenance, not initial profile updates for provisioning.

\* Option D (In the Administrator menu drop down, go the Maintenance tab and choose Download Upgrade) is incorrect because downloading upgrades is part of the patch process, not the profile creation step.

This method ensures new VMs are provisioned with the latest software configurations.

References

\* Nutanix Database Service (NDB) User Guide, Chapter 4: Managing Software Profiles, Section:

Updating Software Profiles

\* Nutanix Certified Professional - Database Automation (NCP-DB) v6.5 Blueprint, Section 4: Manage Database Software Profiles

### NEW QUESTION # 86

How should an administrator create a database clone using the Era IJI?

- A. Select Databases, Sources, select a source database and then choose Create Clone.
- B. Select Databases, Clones, Create Clone.
- C. Select Database Server VMs, select a database server VM and then choose Create Clone.

- D. Select Time Machines, select a source database and then choose Create Clone.

**Answer: D**

Explanation:

In Nutanix Database Automation (NCP-DB), the Time Machine feature is used for protecting databases and creating database clones. To create a database clone using the Era Interface, an administrator should select Time Machines, select a source database, and then choose Create Clone<sup>1</sup>. This process allows the administrator to create a copy of the source database at a specific point in time<sup>1</sup>.

#### NEW QUESTION # 87

Which action must an administrator take in Era Networks before using Era to provision a MSSQL AG cluster?

- A. A network in each data center must be configured for Era.
- B. A network that has a DHCP pool must be configured in Era.
- C. A private network must be configured in Era for the heartbeat traffic.
- D. A that has a static pool managed by Era must be configured.

**Answer: C**

Explanation:

According to the Nutanix Database Automation (NCP-DB) learning documents, before using Era to provision a MSSQL AG cluster, an administrator must configure a private network in Era for the heartbeat traffic<sup>1</sup>. This is because the heartbeat traffic is crucial for maintaining the health and status of the MSSQL AG cluster. The heartbeat traffic is used by the nodes in the cluster to communicate with each other and check the status of the other nodes. If a node does not receive a heartbeat from another node within a certain time frame, it assumes that the other node has failed and takes appropriate action<sup>234</sup>.

#### NEW QUESTION # 88

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