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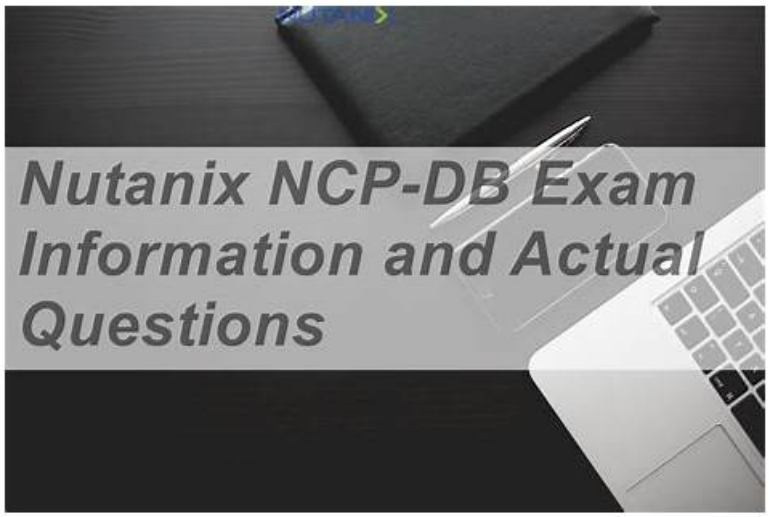

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Nutanix NCP-DB Exam Syllabus Topics:

Topic	Details
Topic 1	• 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.
Topic 2	• 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.
Topic 3	• Describe NDB Concepts: It defines database and NDB terminology. The topic also explains benefits and features of NDB.
Topic 4	• Monitor Alerts and Storage Usage Within an NDB Implementation: It is all about monitoring alerts and management of storage usage.
Topic 5	• Deploy and Configure an NDB Solution: This topic discusses how to deploy, configure, and NDB Instance.

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Nutanix Certified Professional - Database Automation (NCP-DB) v6.5 Sample Questions (Q203-Q208):

NEW QUESTION # 203
What is required to cre110ate a network profile in Era?

- A. The network must be managed by Era.
- B. The network must provide IP address management.
- C. The network must contain static IP addresses.
- D. The network must be added to Era.

Answer: D

Explanation:
According to the Nutanix Database Automation (NCP-DB) learning documents, to create a network profile in Era, the network must be added to Era1. This is because Era needs to have control over the network in order to manage the databases effectively1. Once the network is added to Era, it can be used for various operations such as provisioning new databases, managing existing databases, and more1.

NEW QUESTION # 204
While using Time Machine (TM) to restore a source database, the option to restore data to Point in Time is not available. What should an administrator do to restore databases to Point in Time?

- A. Update TM SLA to BRONZE or higher.
- B. Restore Source DB using a snapshot
- C. Update TM SLA to BRASS or lower.
- D. Create DB clone using a snapshot.

Answer: A

Explanation:
In Nutanix Database Service (NDB), the Time Machine (TM) feature allows restores, including Point-in-Time (PIT) restores, which require continuous log retention to replay transaction logs to a specific moment. If the option to restore data to a Point in Time is unavailable, it indicates that the current Time Machine Service Level Agreement (SLA) does not support continuous log retention. NDB SLAs are categorized (e.g., BRONZE, SILVER, GOLD), with BRONZE or higher levels required to enable PIT restore by including continuous log retention. The administrator must update the TM SLA to at least BRONZE to enable this feature, ensuring logs are retained for PIT operations.
* Option A (Restore Source DB using a snapshot) is incorrect because a snapshot-only restore does not support PIT; it restores to the snapshot time only.
* Option B (Update TM SLA to BRONZE or higher) is correct as it enables continuous log retention necessary for PIT restores.
* Option C (Create DB clone using a snapshot) is incorrect because cloning from a snapshot does not provide PIT capability without log retention.
* Option D (Update TM SLA to BRASS or lower) is incorrect because "BRASS" is not a valid SLA tier, and lowering the SLA would not enable PIT.
This adjustment ensures PIT restore functionality.
References
* Nutanix Database Service (NDB) User Guide, Chapter 5: Configuring Time Machines, Section: Configuring SLAs for Point-in-Time Restore
* Nutanix Certified Professional - Database Automation (NCP-DB) v6.5 Blueprint, Section 5: Protect Databases Using Time Machine

NEW QUESTION # 205
An administrator needs to create a Network Profile for NDB HA VMs spread across three Nutanix clusters.
What type of Network Profile is required for NDB API and Repository VMs?

- A. PostgreSQL HA instance managed outside NDB
- B. PostgreSQL single instance managed outside NDB
- C. PostgreSQL HA instance managed in NDB
- D. PostgreSQL single instance managed in NDB

Answer: A

Explanation:
When creating a Network Profile for NDB HA VMs (e.g., NDB API and Repository VMs) spread across three Nutanix clusters, the required type is PostgreSQL HA instance managed outside NDB. NDB HA relies on a PostgreSQL database for its control plane, and in a multi-cluster HA setup, this PostgreSQL instance must be configured for high availability (e.g., using streaming replication) outside NDB's management. The Network Profile must support this external HA instance's networking requirements (e.g., VLANs, IP ranges) to ensure connectivity across clusters.
Other options are incorrect:
* A. PostgreSQL HA instance managed in NDB: NDB manages database instances, not its own HA control plane database.
* B. PostgreSQL single instance managed in NDB: A single instance lacks HA, unsuitable for multi- cluster.
* D. PostgreSQL single instance managed outside NDB: Lacks HA, insufficient for NDB HA VMs.
Thus, the verified answer is C, aligning with NDB HA architecture.
Official Nutanix Database Automation References
* Nutanix Database Management & Automation (NDMA) course, Module 4: High Availability and Disaster Recovery, Lesson 4.2: Configuring Multi-Cluster HA.
* Nutanix Certified Professional - Database Automation (NCP-DB) v6.5 Knowledge Objectives, Section 4: Troubleshoot NDB Solutions, Objective 4.3: Configure HA Across Clusters (applicable to v6.10).
* Nutanix NDB Administration Guide: "Network Profile Configuration for HA VMs" section.

NEW QUESTION # 206
When provisioning an PostgreSQL HA Instance, what are the minimum and maximum number of DB server VMs that can be deployed in a cluster?

- A. Min 2, Max 6
- B. Min 2, Max 4
- C. Min 3, Max 5
- D. Min 1. Max 3

Answer: B

Explanation:
When provisioning a PostgreSQL HA Instance using NDB, the minimum and maximum number of DB server VMs that can be deployed in a cluster are 2 and 4, respectively. A PostgreSQL HA Instance is a database instance that provides high availability and fault tolerance for PostgreSQL databases using the Patroni framework. Patroni is a Python-based tool that manages PostgreSQL configuration and performs automatic failover and switchover operations. Patroni relies on a distributed consensus store, such as etcd, Consul, or ZooKeeper, to store and synchronize the cluster state and leader information. NDB supports etcd as the consensus store for PostgreSQL HA Instances. NDB allows the administrator to provision PostgreSQL HA Instances with different sizes and configurations, such as small, medium, large, or custom. The size of thePostgreSQL HA Instance determines the number of DB server VMs, the number of etcd nodes, the CPU, memory, and disk resources, and the replication factor of the database. The minimum number of DB server VMs for a PostgreSQL HA Instance is 2, which corresponds to a small size instance. This configuration provides one leader and one follower DB server VM, and one etcd node. The maximum number of DB server VMs for a PostgreSQL HA Instance is 4, which corresponds to a large size instance. This configuration provides one leader and three follower DB server VMs, and three etcd nodes. The other options are not valid for a PostgreSQL HA Instance, as they either do not provide enough redundancy or exceed the supported limit of DB server VMs. References:
* Nutanix Certified Professional - Database Automation (NCP-DB) v6.5, Section 2 - Deploy and Configure an NDB Solution, Objective 2.2: Configure an NDB Instance
* Nutanix Database Management & Automation (NDMA) Course, Module 3: Nutanix Database Service (NDB) Installation and Configuration, Lesson 3.2: Configuring NDB, Topic: Provisioning PostgreSQL HA Instances
* Nutanix Database Service (NDB) User Guide, Chapter 4: Provisioning Databases, Section: Provisioning PostgreSQL HA Instances
* [PostgreSQL High Availability: Under the Hood - Nutanix.dev], Section: PostgreSQL HA Architecture and Components

NEW QUESTION # 207

An administrator has been asked to add a new Nutanix AHV cluster to the current single default container for DB provisioning. Which configuration should be performed before enabling NDB multi-cluster?

- A. Add both clusters under Prism Central management and verify NDB is registered to the same Prism Central Instance. environment using a storage container as the
- B. Enable High Availability for NDB service on the Administration page.
- C. Configure datastore mapping within Prism Element Protection Domains.
- D. Deploy Nutanix Self Service VM and use blueprints to allow NDB to deploy databases on multiple clusters.

Answer: A

Explanation:
To add a new Nutanix AHV cluster to the current single default container for database provisioning and enable NDB multi-cluster functionality, the administrator must ensure a unified management framework.
Nutanix Prism Central serves as the centralized management platform for multi-cluster environments, allowing NDB to manage multiple clusters (in this case, the existing cluster and the new AHV cluster) under a single instance. Before enabling multi-cluster support in NDB, both clusters must be registered with the same Prism Central instance, and NDB must be confirmed as registered to that instance. This ensures consistent policy enforcement, resource visibility, and database provisioning across clusters using the default container.
* Option A (Deploy Nutanix Self Service VM and use blueprints) is incorrect because Nutanix Self Service is an optional tool for end-user provisioning and not a prerequisite for multi-cluster enablement.
* Option B (Configure datastore mapping within Prism Element Protection Domains) is incorrect because datastore mapping is a lower-level configuration and not directly required for multi-cluster setup in NDB.
* Option C (Enable High Availability for NDB service on the Administration page) is incorrect because HA is a separate configuration for NDB resilience, not a prerequisite for multi-cluster support.
* Option D is correct as it aligns with NDB's requirement for Prism Central integration to manage multiple clusters effectively. This configuration ensures seamless multi-cluster operation.
References
* Nutanix Database Service (NDB) User Guide, Chapter 3: Configuring an NDB Environment, Section: Multi-Cluster Configuration
* Nutanix Prism Central Administration Guide, Section: Managing Multiple Clusters
* Nutanix Certified Professional - Database Automation (NCP-DB) v6.5 Blueprint, Section 3: Configure an NDB Environment

NEW QUESTION # 208
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