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Nutanix Certified Professional - Business Continuity (NCP-BC) 7.5 Sample Questions (Q107-Q112):

NEW QUESTION # 107

A VM is protected in an Async Protection Policy with a schedule for every 1 hour. The replications are completing successfully every hour. The VM hosts a critical application and cannot afford any data loss. The administrator unprotects the VM from the Async Policy and protects the VM in a Synchronous policy. The administrator also notices that the VM is not entering the "Sync" state and is stuck in syncing for a long time. The administrator notices the error in the logs:

Enabling stretch for entity TestVM failed while notifying vm service due to error Acropolis failed to handle VmSyncRepEnable request for VM TestVM Failed to connect to remote Anduril What port needs to be allowed between the clusters to fix the issue?

- A. 0
- B. 1
- **C. 2**
- D. 3

Answer: C

Explanation:

In a Nutanix environment, Synchronous replication (including Metro Availability and Synchronous Protection Policies) relies on a specialized service known as Anduril to manage the real-time mirroring and state transitions of virtual machines. While standard asynchronous replication primarily uses ports 2009 (Stargate) for data transfer and 2020 (Cerebro) for metadata and replication management, synchronous replication introduces additional requirements for low-latency communication between the Anduril services on the source and destination clusters.

The error message "Failed to connect to remote Anduril" specifically indicates that the local cluster's management plane is unable to communicate with the remote cluster's synchronous replication manager.

TCP port 2036 is the dedicated port for cross-cluster communication between Anduril services. This port is used to negotiate the "stretch" of the VM across sites, coordinate the initial sync, and maintain the health heartbeat required for high-availability failover decisions. If port 2036 is blocked by a physical or virtual firewall between the clusters, the "VmSyncRepEnable" request will time out or fail, preventing the VM from ever entering the "Sync" (Active-Active) state. Troubleshooting synchronous replication always begins with verifying that the 5ms latency requirement is met and that port 2036 is open alongside the standard ports 2009 and 2020 to ensure both data and control traffic can flow without interruption between availability zones.

NEW QUESTION # 108

A remote office deployment consists of a two-node Nutanix hybrid cluster. An administrator attempts to configure a protection domain with a 5-minute RPO (Nearsync) replicating to a central datacenter.

Why is the administrator unable to successfully configure this Nearsync schedule?

- A. The minimum RPO supported for a two-node cluster is 15 minutes.
- B. Nearsync is only supported on All-Flash clusters, not hybrid models.
- **C. Nearsync replication requires a minimum of three nodes in the cluster.**
- D. Two-node clusters require a Witness VM to enable Nearsync replication

Answer: C

Explanation:

Nutanix NearSync replication provides a middle ground between traditional asynchronous replication and synchronous mirroring, offering RPOs as low as 1 minute using Lightweight Snapshots (LWS). However, the LWS mechanism and the high-frequency metadata operations required to maintain a 1-to-15 minute RPO have specific hardware and cluster-level requirements.

One of the strict prerequisites for enabling NearSync is the cluster size. Nutanix requires a minimum of a three-node cluster for NearSync replication. This is because the system must have enough resources to distribute the LWS metadata and handle the increased I/O overhead without compromising the cluster's availability or performance. In a two-node cluster (which is common for small ROBO deployments), the system does not meet the minimum redundancy and resource thresholds required for the NearSync engine to operate reliably. While two-node clusters support standard Asynchronous replication (with a 60-minute RPO or higher), they are restricted from using the NearSync lightweight snapshot engine. An administrator attempting to set a 5-minute RPO on a two-node cluster will find the option either grayed out or the task will fail validation. To achieve a 5-minute RPO, the organization would need to expand the remote office cluster to at least three nodes or settle for a higher RPO supported by standard asynchronous replication on the existing hardware.

NEW QUESTION # 109

An organization is finalizing its Disaster Recovery (DR) plan. The primary objective is to balance cost- efficiency with a target RTO of under 15 minutes. Data currently resides in Object Storage, but the team is debating between a Zero Compute approach and a Pilot Light approach. Why would a Pilot Light infrastructure be selected over a Zero Compute model despite the higher "Moderate" cost?

- A. Only model that allows for a "Power-On" recovery trigger.
- **B. Faster recovery due to metadata and cluster already existing.**
- C. Lowest cost option available for long-term idle infrastructure.
- D. Eliminates the need for any Object Storage (S3/Blob) costs.

Answer: B

Explanation:

When designing disaster recovery to a cloud environment (such as NC2 on AWS or Azure), organizations must choose a compute model that aligns with their Recovery Time Objective (RTO). The "Zero Compute" model is the most cost-efficient because it stores only the data (snapshots) in low-cost Object Storage (S3 or Blob) and does not maintain a running cluster. However, the RTO for Zero Compute is high because, in a disaster, the organization must first deploy a new Nutanix cluster, configure it, and then begin the process of hydrating data from the Object Storage.

In contrast, the "Pilot Light" model involves keeping a minimal, active Nutanix cluster (e.g., 3 nodes) running at the recovery site. While this carries a moderate ongoing cost, it significantly reduces the RTO.

Because the cluster already exists, the management plane (Prism Central), the storage containers, and all metadata are already active. When a failover is triggered, the system only needs to power on the VMs or perform a small amount of data hydration. This allows the organization to meet aggressive RTO targets of under 15 minutes, which is generally impossible with the Zero Compute model. Pilot Light provides the "ready-to-go" infrastructure needed for mission-critical applications that cannot afford the multiple hours required to provision a fresh cluster from scratch during an emergency.

NEW QUESTION # 110

Two AHV clusters are 4 ms RTT apart. The business requires:

- * 0 RPO
- * Automatic failover
- * No application performance degradation
- * Hybrid HCI nodes with 100 TB capacity

What storage configuration must be validated before enabling synchronous replication?

- A. Minimum two SSDs at 10% capacity per node
- B. No SSD requirement for synchronous replication
- C. Minimum one SSD per node
- D. Only HDD capacity matters

Answer: C

Explanation:

Synchronous replication is a high-performance disaster recovery solution designed to provide a Zero Recovery Point Objective (RPO) by mirroring every write operation in real-time between two clusters.

Because the system must wait for the remote site to acknowledge every write before confirming the operation to the application, the underlying storage media must be capable of extremely low-latency I/O.

On hybrid clusters that utilize both Solid State Drives (SSDs) and Hard Disk Drives (HDDs), Nutanix mandates a minimum of one SSD per node to support synchronous replication. The SSD tier is used to store metadata and provide the high-speed "Oplog" where incoming writes are initially landed before being drained to the HDD tier. If a cluster were to attempt synchronous replication using only HDDs (Option D), the mechanical latency of the spinning disks combined with the network Round Trip Time (RTT) would cause severe application performance degradation, failing the business requirement. Even though the cluster has large capacity requirements (100 TB), the presence of an SSD tier is a technical prerequisite for the software to even enable the synchronous consistency feature. Therefore, ensuring at least one SSD exists in every node of the hybrid cluster is the critical storage validation step required before implementation.

NEW QUESTION # 111

An administrator protects workloads between two ESXi clusters using asynchronous (async) replication. After failover, VMs power on successfully but are placed in the default folder and resource pool instead of their original vSphere folders. Why did this occur?

- A. Protection Domains must be recreated on the cluster.
- B. vCenter server permissions were not configured correctly.
- C. Snapshots were not consolidated before failover.
- D. Async replication doesn't preserve inventory mapping.

Answer: D

Explanation:

Nutanix Asynchronous (Async) replication is a foundational data protection technology that allows for the periodic transfer of virtual machine snapshots from a primary cluster to a remote site. When using Async replication between two ESXi-based Nutanix clusters, the primary objective is data persistence rather than deep integration with the vSphere management hierarchy. Because Async replication operates at the storage level, it captures the virtual disk (vDisk) data and the VM's configuration files (.vmx) but does not natively synchronize the logical inventory metadata maintained by the vCenter Server, such as VM folders, resource pools, or specific vApp configurations.

When a failover is executed, the Nutanix cluster registers the VM to the remote ESXi host and vCenter. Since the inventory mapping details (original folder and resource pool) are not part of the standard Async replication payload, the vCenter Server treats the failing-over VM as a new registration and places it into the default root folder and the default cluster resource pool. To maintain consistent organizational structures during a disaster recovery event, administrators typically rely on Prism Central-based "Recovery

Plans. " Recovery Plans offer advanced orchestration that allows for the manual definition of inventory mappings, ensuring that VMs are placed in the correct folders and resource pools upon recovery. Understanding this limitation of legacy Async replication is crucial for administrators designing BCDR solutions that require high levels of organizational consistency post-failover.

NEW QUESTION # 112

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