Exam Code: NCA-6.5
Exam Name: Nutanix Certified Associate (NCA) v6.5

Vdumps

Exam A

QUESTION 1
Which account is recommended for performing tasks and operations on the CVM via SSH?

A. administrator
B. admin
C. nutanix
D. root

Correct Answer: B
Section:

QUESTION 2
By default, Nutanix Files will deploy how many FSVMs within a Nutanix cluster?

A. 5
B. 3
C. 4
D. 2

Correct Answer: B
Section:

QUESTION 3
How many copies of metadata are written for a Replication Factor of 2 (RF2)?

A. 2
B. l
C. 3
D. 4

Correct Answer: C
Section:

QUESTION 4
Which technology provides Nutanix's native virtualization solution?

A. Distributed Storage Fabric
B. CVM
C. AHV
D. App Mobility Fabric

Correct Answer: C

Section:

QUESTION 5
Which URL can be used to open Nutanix support cases?

A. portal.nutanix.com

B. www.nutanix.com

C. console.nutanix.com

D. partnerportal.nutanix.com

Correct Answer: A
Section:

QUESTION 6
On which Prism Element dashboard can an administrator identify that a node is in maintenance mode prior to an LCM upgrade?

A. Settings

B. Hardware

C. Alerts

D. Analysis

Correct Answer: B
Section:

QUESTION 7
What protocol does Pulse use to transmit cluster information to Nutanix?

A. SSH

B. SCP

C. SFTP

D. HTTPS

Correct Answer: D
Section:

QUESTION 8
Which platform supports firmware updates through LCM?

A. * Lenovo HX

B. Dell PowerEdge

C. Huawei Atlas

D. Hitachi Vantara

Correct Answer: A
Section:

QUESTION 9

What is the maximum jumbo frame MTU supported by host network interfaces and Guest VMs?

A. 1500 bytes

B. 2048 bytes

C. 9000 bytes

D. 4096 bytes

Correct Answer: C
Section:

QUESTION 10
An administrator needs to create a new chart to analyze GPU usage.
Which entity should be added to the chart?

A. Cluster

B. Virtual Machine

C. GPU

D. Host

Correct Answer: B
Section:

QUESTION 11
Which Prism Central feature can map images to target clusters using categories?

A. Image Replication Policies

B. Image Placement Policies

C. Protection Domain Policies

D. Storage Policies

Correct Answer: B
Section:
Explanation:
In Prism Central, Image Placement Policies can be used to map images to target clusters using categories. An Image Placement Policy is a set of rules that determine where an image should be placed on the Nutanix cluster.
These rules are based on categories, such as the image's OS type, the target cluster's hardware type, and other factors. By creating image placement policies, you can ensure that images are placed on the appropriate clusters, and that they are compatible with the hardware and software requirements of those clusters.
For example, you could create a placement policy that specifies that all Windows images should be placed on a specific cluster, and that all Linux images should be placed on another cluster. You can also set image replication policies on image placement policies, to ensure that images are replicated to multiple clusters for disaster recovery purposes.

QUESTION 12
An administrator wants to have a single chart with the logical usage for three storage containers.
Which action should the administrator perform?

A. Create a new Metric Chart

B. See Storage usage under Prism Element Health page

C. Create a new Entity Chart

D. See Usage Summary in the Storage Containers detailed view

Correct Answer: C
Section:
Explanation:
An administrator can create an Entity Chart to view the logical usage for multiple storage containers in one chart. This chart can be created from the Prism Element dashboard, and it provides a visual representation of the logical usage of each container, allowing administrators to easily compare the usage of multiple containers at once.

QUESTION 13
What requirement needs to be considered before configuring Replication Factor of 1 (RF1)?

A. Application resiliency

B. Hypervisor

C. RAID configuration

D. Node count

Correct Answer: D
Section:
Explanation:
To configure Replication Factor 1 (RF1), the cluster must have at least three nodes. In RF1, data is replicated to two other nodes within the cluster, so having at least three nodes is necessary to ensure that the data is replicated. Moreover, when you configure RF1, the cluster must have a minimum of three nodes to ensure that the data is accessible even if one of the nodes goes down.
Reference: https://portal.nutanix.com/page/documents/details?targetId=Prism-Admin-Guidev5_6:pr-data-protection-replication-factor-c.html

QUESTION 14
An administrator is deploying a virtual firewall on each node in an AHV cluster and wants each VM to maintain affinity to its host. How can an administrator achieve this goal most efficiently?

A. Create VM Protection Policies

B. Set the VM labels as firewalls

C. Create VM Annotations

D. Set the VMs as Agent VMs

Correct Answer: A
Section:
Explanation:
An administrator can create VM Protection Policies to enforce VM to host affinity for each VM in the AHV cluster. This will ensure that the VMs are always running on the same host, even if the cluster is resized or the VMs are migrated to other nodes. This is the most efficient way to achieve the desired goal. Reference: https://portal.nutanix.com/page/documents/details?targetId=Prism-Admin-Guidev5_ 6:pr-vmprofiles-affinity-c.html

QUESTION 15

CRITICAL

Services	● 1	● 0	● 0
Protection Domains	● 0	● 4	● 5
Remote Sites	● 0	● 3	● 0

Upon logging into Prism Element an administrator sees a red heart, as shown in the exhibit. Which dashboard in Prism will best help the administrator to isolate the cause of the red heart?

A. Health
B. Tasks
C. Analysis
D. Hardware

Correct Answer: A
Section:
Explanation:
The Health dashboard in Prism Element provides an overview of the cluster's health, including alerts and notifications that can help the administrator identify and address any issues. The red heart icon is an indicator that there is an issue with the cluster, and the Health dashboard can be used to investigate the cause of the issue.
Reference: https://portal.nutanix.com/page/documents/details?targetId=Prism-Admin-Guidev5_6:pr-dashboard-overview-c.html

QUESTION 16
Refer to the exhibit.

Overview · Diagram · Table   + Expand Cluster   Repair Host Boot Device

NX-3060-G6 (BLOCK ID/BLK1)
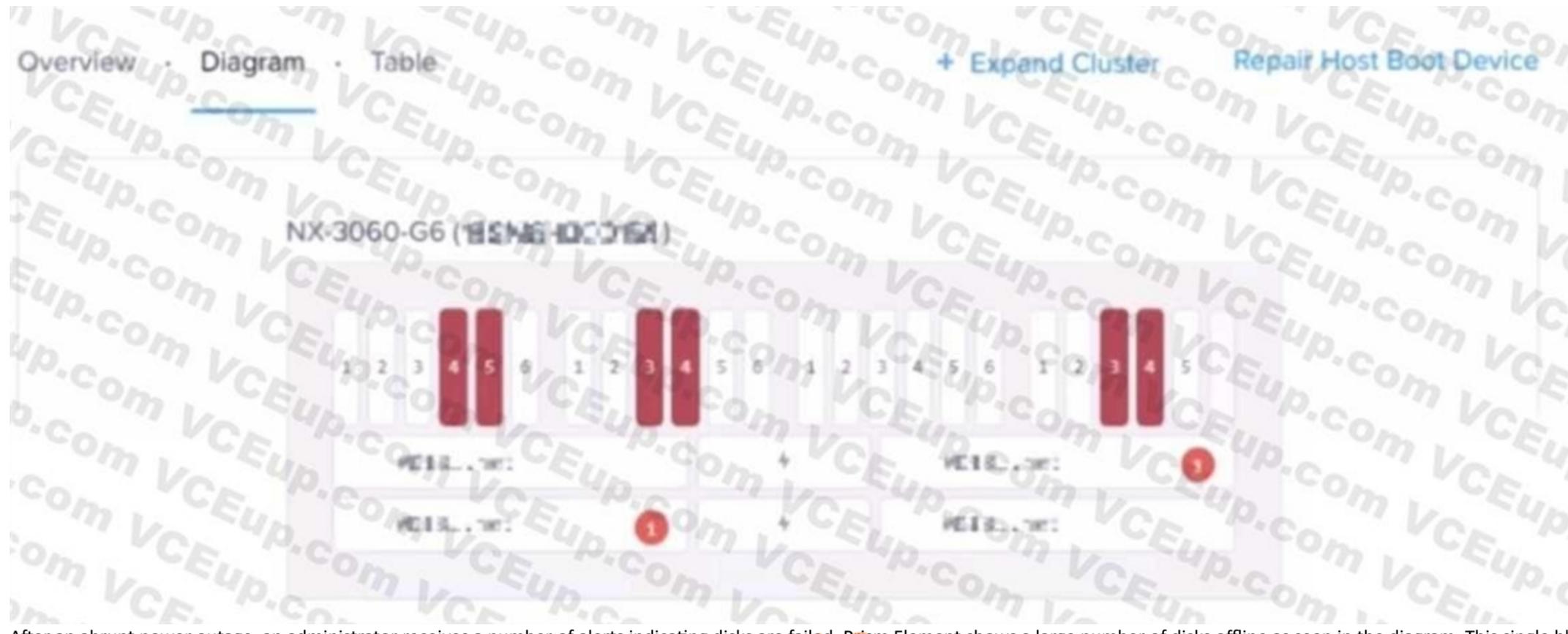
After an abrupt power outage, an administrator receives a number of alerts indicating disks are failed. Prism Element shows a large number of disks offline as seen in the diagram. This single block, four node cluster is configured FT1 with an RF2 container holding all user data.
What number of drive failures on different domains (node, block, or rack) could this configuration have tolerated prior to seeing data unavailability?

A. 1

B. 4

C. 3

D. 2

Correct Answer: C
Section:

QUESTION 17
Which IP address can be used to directly access Prism Element?

A. Foundation VM IP address

B. IP address of any CVM in the cluster

C. IP address of any Prism Central VM

D. AHV host br0 IP address

Correct Answer: B
Section:
Explanation:
Prism Element is the management interface for Nutanix clusters and it can be accessed through the IP address of any CVM (Controller Virtual Machine) in the cluster. The CVM is a virtual machine that runs on each Nutanix node and is responsible for managing the storage and compute resources of the node. Each CVM has a unique IP address, and any of these IP addresses can be used to directly access Prism Element.
Accessing Prism Element through the IP address of a CVM allows the administrator to manage the cluster, including configuring storage, creating and managing virtual machines, and monitoring the health of the cluster.

It's important to note that Prism Central is a separate application and it doesn't have the same functions as Prism Element, it's mainly used for multi-cluster management.

You can find more information on this topic in the Nutanix Administrator Guide, which is available on the Nutanix support website https://portal.nutanix.com/#/page/docs/details?targetId=Admin- Guide-Prism-v5_24:Admin-Guide-Prism-v5_24

QUESTION 18
Which feature or configuration is best for securing network traffic between the management and storage replication environments?

A. Use of Firewall Rules

B. Network Segmentation

C. VM Anti-Affinity Rules

D. Different Storage Containers

Correct Answer: B
Section:
Explanation:
Network segmentation is the best feature or configuration for securing network traffic between the management and storage replication environments. Network segmentation is the practice of dividing a computer network into subnets, each serving a different purpose or function. By dividing the network into different segments, it is possible to control and monitor the flow of traffic between the different segments, and to implement different security policies for each segment.

For example, the management environment could be segmented from the storage replication environment, and only specific traffic, such as management traffic, would be allowed to flow between the two segments. This can help to protect the management environment from potential security threats that may originate from the storage replication environment.

Other options like firewall rules, VM anti-affinity rules, and different storage containers can also help to secure network traffic, but network segmentation provides a more comprehensive and granular way to secure the traffic between different environments.

You can find more information on this topic in the Nutanix Security Configuration Guide, which is available on the Nutanix support website:
https://portal.nutanix.com/#/page/docs/details?targetId=Security-Guide-v5_24:Security-Guidev5_24

QUESTION 19
Where can an administrator find information about the Cluster Runway?

A. Prism Element Home Page

B. Prism Element Analysis

C. Prism Central Main Dashboard

D. Prism Central Analysis

Correct Answer: C
Section:
Explanation:

QUESTION 20
Which address allows external connections to Nutanix storage presented by the Volumes feature?

A. Prism Central IP

B. Prism Central IP

C. Data Services IP

D. IPMI IP

Correct Answer: C
Section:

Explanation:
The Data Services IP address is the address that allows external connections to Nutanix storage presented by the Volumes feature. This address is used to access the storage from external sources and is used for replication and external snapshotting.
Reference: https://portal.nutanix.com/page/documents/details?targetId=Prism-Admin-Guidev5_6:pr-storage-storage-networks-c.html

QUESTION 21
Which feature enables Image Placement Policies to be mapped to target clusters?

A. YAML

B. Labels

C. JSON

D. Categories

Correct Answer: D
Section:
Explanation:
Image Placement Policies can be mapped to target clusters using labels. Labels are key-value pairs that can be used to associate arbitrary metadata with clusters and VMs. Labels can be used to define Image Placement Policies, which specify which clusters can be used for a given image.
Reference: https://portal.nutanix.com/page/documents/details?targetId=Prism-Admin-Guidev5_6:pr-images-placement-policies-c.html

QUESTION 22
Which technology allows applications and data to move freely between runtime environments?

A. Distributed Storage Fabric

B. Disaster Recovery

C. App Mobility Fabric

D. Nutanix Move

Correct Answer: C
Section:
Explanation:
App Mobility Fabric is a technology from Nutanix that allows applications and data to move freely between runtime environments. It allows applications and data to be moved from one environment to another without any disruption or downtime. Reference: https://www.nutanix.com/products/appmobility- fabric

QUESTION 23
An administrator needs to do a manual VM in-place restore of a mission-critical VM. Which Prism Central option should the administrator use to satisfy this task?

A. Snapshot

B. Clone

C. Backup

D. Recovery Point

Correct Answer: D
Section:
Explanation:
A manual VM in-place restore can be performed using the Recovery Point option in Prism Central.
This option enables an administrator to restore a VM to a previous state without needing to create a new VM. Reference: https://portal.nutanix.com/page/documents/details?targetId=Prism-Admin- Guide-v5_6:pr-vms-backup-restore-c.html

QUESTION 24
What does Replication Factor 2 (RF2) refer to?

A. Number of blocks that can be lost without impact
B. Number of nodes that can be lost without impact
C. Number of disks that can be lost in the cluster
D. Number of copies of data written in the cluster

Correct Answer: D
Section:
Explanation:
Replication Factor 2 (RF2) refers to the number of copies of data written in the cluster. When RF2 is enabled, the Nutanix Distributed File System (NDFS) will create two copies of the data, resulting in higher levels of data durability and availability.
Reference: https://portal.nutanix.com/page/documents/details?targetId=Advanced-Administrationv5_7:aa-ndfs-rf2-c.html

QUESTION 25
What is the purpose of Discoveries within the Nutanix Support Portal?

A. To identify clusters that are affected by known issues.
B. To provide an audit trail of cluster logins.
C. To identify VMs that require OS updates or patching.
D. To provide forecasting of cluster resource utilization.

Correct Answer: A
Section:
Explanation:
Discoveries within the Nutanix Support Portal are used to identify clusters that are affected by known issues. This can help Nutanix Support quickly identify and address any potential problems that may be caused by a specific issue.
Reference: https://portal.nutanix.com/page/documents/details?targetId=Support-Portal-User-Guide-v2_0:sp-discoveries-c.html

QUESTION 26
What is the effect of enabling Flash Mode?

A. Sets the storage tier preference to HDD
B. Sets the storage tier preference to SSD
C. Sets the metadata tier preference to HDD
D. Sets the metadata tier preference to SSD

Correct Answer: B
Section:
Explanation:
Enabling Flash Mode will set the storage tier preference to SSD, meaning that data will be stored on the high-performance SSD storage tier. Flash Mode is designed to speed up the performance of applications by ensuring that the most frequently used data is stored on the faster storage tier.
Reference: https://portal.nutanix.com/page/documents/details?targetId=Platform-Administrator-Guide-v5_7:pag-flash-mode-c.html

QUESTION 27
Which LCM feature simplifies upgrades on clusters without Internet access?

A. One-Click Upgrade

B. NCC

C. Direct Upload

D. FTP

Correct Answer: C
Section:
Explanation:
Direct Upload is a LCM feature that simplifies upgrades on clusters without Internet access. It allows users to upload the desired version of the software to the cluster using a USB drive or other portable storage device, and then install it without the need to access the Internet.
Reference: https://portal.nutanix.com/page/documents/details?targetId=Platform-Administrator-Guide-v5_7:pag-lcm-direct-upload-c.html

QUESTION 28
Within a Nutanix cluster an administrator is getting frequent failure alerts of the Cassandra and Stargate services for one of the nodes. What action will be taken by the cluster?

A. Put host in Maintenance Mode

B. Redirect I/O path to another CVM

C. Remove the host from cluster

D. Reboot Guest VMs to another hosts

Correct Answer: A
Section:
Explanation:
When the Cassandra and Stargate services fail frequently on a single node, the cluster will automatically put the host in Maintenance Mode to ensure the reliability and performance of the cluster. This will remove the node from the cluster's
IO path and prevent any data loss or corruption.
Reference: https://portal.nutanix.com/page/documents/details?targetId=Platform-Administrator-Guide-v5_7:pag-maintenance-mode-c.html

QUESTION 29
An administrator needs to deploy a two-node cluster on a new ROBO Site. What is required to maintain High Availability in the case of a node failure?

A. Witness VM

B. Metro-Availability

C. Windows Failover Clustering

D. Async Replication

Correct Answer: A
Section:
Explanation:
To maintain high availability in the case of a node failure in a two-node cluster, a Witness VM is required. Therefore, the correct answer is A. The Witness VM acts as a tie-breaker and arbitrator in the event of a split-brain scenario, where both nodes lose connectivity to each other, to ensure that only one node continues to operate and serve workloads. It is also recommended to use a high- performance network to minimize network latency between the two nodes and the Witness VM.

QUESTION 30
Which option is available for an administrator to upload a remote disk file to Image Configuration?

A. HTTP

B. FTP

C. SCP

D. SFTP

Correct Answer: A
Section:
Explanation:
SFTP (Secure File Transfer Protocol) is an option available for an administrator to upload a remote disk file to Image Configuration. SFTP is a secure protocol that ensures that the data being transferred is encrypted and is therefore more secure than other transfer protocols such as FTP or HTTP. Reference: https://portal.nutanix.com/page/documents/details?targetId=Platform- Administrator-Guide-v5_7:pag-remote-disk-upload-c.html

QUESTION 31
When should Pulse be disabled?

A. When the cluster is connected to the Internet with less than 1GbE.

B. When the cluster is deployed in 3 dark-site.

C. Before any cluster maintenance activities requiring node reboots.

D. Only under the guidance of Nutanix Support.

Correct Answer: D
Section:
Explanation:
Pulse should only be disabled under the guidance of Nutanix Support and not for any other reason.
Pulse is a feature of the Nutanix cluster that enables the cluster to report back health and performance data to Nutanix for troubleshooting and performance optimization purposes. Disabling Pulse without the guidance of Nutanix Support is not recommended, as it could lead to potential issues with the cluster.
Reference: https://portal.nutanix.com/page/documents/details?targetId=Platform-Administrator-Guide-v5_7:pag-pulse-c.html

QUESTION 32
Which feature in Pulse helps secure a customer's private information?

A. Security Central

B. Cluster Lockdown

C. Data-at-rest Encryption

D. Data Obfuscation

Correct Answer: D
Section:
Explanation:
Data Obfuscation is a feature in Pulse that helps secure a customer's private information by obfuscating the data before it is sent to Nutanix. This ensures that any data sent to Nutanix is not visible to anyone other than the customer, and helps protect sensitive data from unauthorized access or malicious actors.
Reference: https://portal.nutanix.com/page/documents/details?targetId=Platform-Administrator-Guide-v5_7:pag-pulse-c.html

QUESTION 33
Which Nutanix storage service can store Petabytes of unstructured data and supports S3 APIs?

A. DSF

B. Files

C. Volumes

D. Objects

Correct Answer: D
Section:
Explanation:
Nutanix Objects is a storage service that can store petabytes of unstructured data and supports S3 APIs. It is a distributed object store that provides an easy-to-use interface for storing and managing objects and data. It also provides advanced features such as versioning, replication, encryption, and access control. Reference: https://portal.nutanix.com/page/documents/details?targetId=Platform- Administrator-Guide-v5_7:pag-objects-c.html

QUESTION 34
What is the biggest benefit of the Redfish Protocol and LCM?

A. HBA and NIC card update twice as quickly

B. AOS and AHV update twice as quickly

C. BMC and BIOS update twice as quickly

D. SSD and HDD update twice as quickly

Correct Answer: C
Section:
Explanation:
The Redfish Protocol and Lifecycle Manager (LCM) provide the biggest benefit of allowing BMC and BIOS updates to be done twice as quickly as before. This is because Redfish and LCM allow for updates to be done in parallel, rather than serially, which reduces the amount of time it takes for an update to be completed.
Reference: https://portal.nutanix.com/page/documents/details?targetId=Platform-Administrator-Guide-v5_7:pag-redfish-lcm-c.html

QUESTION 35
Which AHV feature proactively monitors a Nutanix cluster for compute and storage I/O contention or hotspots over a period of time?

A. Genesis

B. ADS

C. Prism

D. Cluster Maintenance Utility

Correct Answer: B
Section:
Explanation:
ADS is a feature of Nutanix AHV (Acropolis Hypervisor) that proactively monitors a Nutanix cluster for compute and storage I/O contention or hotspots over a period of time [1]. It provides dynamic and intelligent scheduling of workloads on the cluster for optimal performance and utilization.

QUESTION 36
What resource should be used to ensure a successful upgrade of the hypervisors and AOS within a vSphere-based Nutanix cluster?

A. Upgrade Paths

B. Field Advisories

C. Compatibility and Interoperability Matrix

D. Hardware Replacement Documentation

Correct Answer: C
Section:
Explanation:
The Compatibility and Interoperability Matrix (CIM) is the resource that should be used to ensure a successful upgrade of the hypervisors and AOS within a vSphere-based Nutanix cluster. The CIM provides information about the compatibility and interoperability of the different components of the Nutanix cluster, including the hypervisors, AOS, and other related components.

QUESTION 37
An administrator has defined a security policy that needs to be applied to dozens of VMs. What is the most efficient way the administrator can perform this?

A. Within the policy, select all the VMs it should be applied to.

B. Apply a category to the VMs. and associate the category with the policy.

C. Apply the same label to all the VMs, then bind the policy to the label.

D. Use a script to apply the policy to the defined VMs.

Correct Answer: C
Section:
Explanation:
Labels allow administrators to group related objects, such as VMs, and then apply policies to those labels, rather than having to manually apply the policy to each individual VM. This is the most efficient way for an administrator to apply a security policy to dozens of VMs.
Reference: https://portal.nutanix.com/page/documents/details?targetId=Platform-Administrator-Guide-v5_7:pag-sec-category-label-c.html

QUESTION 38
An administrator manages a memory-sensitive application that consists of multiple VMs. The administrator needs to understand if workloads, historically, have been evenly distributed across these VMs.
What should the administrator do?

A. Create an Alert Policy with VM as entity type and memory usage as a metric.

B. Run cluster efficiency summary report selecting all the VMs that constitute the applications.

C. Add Memory usage chart to Analysis dashboard for each required VM.

D. Filter VMs list by using Memory Usage.

Correct Answer: D
Section:

QUESTION 39
From Prism Central, how can an administrator access a cluster?

A. Use the VM Summary view.

B. Use the cluster quick access from the main dashboard widget.

C. Use the cluster quick access from the Settings page.

D. Use the Cluster Summary view.

Correct Answer: B
Section:
Explanation:
From Prism Central's main dashboard page, an administrator can access any cluster by clicking the cluster quick access link. This will open the cluster summary page, which contains detailed information about the cluster, including the nodes, virtual machines, and applications running on the cluster. Reference: https://portal.nutanix.com/page/documents/details?targetId=Platform- Administrator-Guide-v5_7:pag-prism-central-cluster-access-c.html

QUESTION 40
Which type of network supports automatically assigning IP addresses to VMs?

A. Floating IP Network

B. Management traffic network

C. Virtual Network with IPAM

D. Virtual Private Cloud Networks

Correct Answer: C
Section:
Explanation:
A virtual network with IPAM (IP Address Management) supports automatically assigning IP addresses to VMs. This eliminates the need for manual configuration of IP addresses for each VM, and makes it easy to manage and track IP address usage.
Reference: https://portal.nutanix.com/page/documents/details?targetId=Platform-Administrator-Guide-v5_7:pag-network-ipam-c.html

QUESTION 41
Where can an administrator configure role-based access control (RBAC)?

A. Self-Service Restore

B. Prism Element

C. Foundation

D. Prism Central

Correct Answer: D
Section:
Explanation:
Role-based access control (RBAC) allows administrators to configure access control for different users and groups in the Nutanix cluster. This feature is available through Prism Central, where administrators can configure roles and permissions for different users and groups.
Reference: https://portal.nutanix.com/page/documents/details?targetId=Platform-Administrator-Guide-v5_7:pag-user-role-c.html

QUESTION 42
What is Nutanix's scale-out storage technology that makes its hyperconverged platform possible?

A. Distributed File Services

B. Distributed Storage Fabric

C. HDD/SDD Storage Tiers

D. Hot swappable NVMe/SSD

Correct Answer: B
Section:
Explanation:
Nutanix's scale-out storage technology, the Distributed Storage Fabric, makes its hyperconverged platform possible. It provides a single, unified layer of storage to multiple nodes in a cluster, allowing data to be stored, accessed, and processed in a distributed, fault-tolerant manner.
Reference: https://www.nutanix.com/what-is-nutanix/distributed-storage-fabric/

QUESTION 43
How would an administrator upgrade the LCM framework to the latest version?

A. Run LCM pre-checks

B. Settings/Upgrade Software

C. Run LCM inventory

D. Run an NCC health check

Correct Answer: B
Section:
Explanation:
To upgrade the LCM framework to the latest version, the administrator must go to the Settings page of the Prism Central UI, and then select the Upgrade Software option. This will show the available versions of the LCM framework, and allow the administrator to select the desired version and upgrade. Reference: https://portal.nutanix.com/page/documents/details?targetId=Platform- Administrator-Guide-v5_7:pag-lcm-upgrade-c.html

QUESTION 44
A single host in a four-node AHV-based cluster experiences a complete network failure.
If more than enough resources exist in the cluster to tolerate a node failure, what happens to the user VMs running on that host?

A. VMs remain down until network connectivity is restored.

B. VMs stay up, but are unreachable until connectivity is restored.

C. VMs automatically restart on the three remaining hosts.

D. VMs are live-migrated to the three remaining hosts.

Correct Answer: B
Section:
Explanation:
In the case of a single host in a four-node AHV-based cluster experiencing a complete network failure, the user VMs running on that host will stay up, but will be unreachable until connectivity is restored. This is because if more than enough resources exist in the cluster to tolerate a node failure, the VMs will continue to run, but will be unable to communicate with other nodes in the cluster due to the network failure. This is stated in the official Nutanix Certified Associate (NCA) v6.5 study guide on page 49, under the heading "Virtual Machine Availability in the Event of Node Failure".

QUESTION 45
A SQL Server cluster has been deployed on an AHV cluster. To ensure maximum uptime, the administrator wants the SQL Server VMs running on different hosts while leveraging High Availability in case of host failure.
Which configuration would meet these requirements?

A. Configure one VM as an Agent VM

B. Disable Host affinity rules in the cluster

C. Create an anti-affinity rule via CLI.

D. Disable VM live migration from selected VMs.

Correct Answer: C
Section:
Explanation:
Anti-affinity rules are used to ensure that virtual machines are not running on the same physical host. This can be useful in situations where the administrator wants to ensure that virtual machines are running on different hosts for high availability and to minimize the impact of a host failure. By creating an anti-affinity rule via CLI, the administrator can ensure that the SQL Server VMs are running on different hosts while still leveraging high availability in case of host failure. Reference:
https://portal.nutanix.com/page/documents/details?targetId=Web-Console-Guide-Prism-v5_11:wcaffinity-anti-affinity-rules_wc-affinity-anti-affinity-rules.html

QUESTION 46
In an AHV five-node cluster, an SSD fails within a node that has two SSDs and four HDDs installed.
What will happen to the cluster environment?

A. Host goes down and VMs will be powered on elsewhere.

B. Cluster goes in read-only mode.

C. VMs will be live migrated to other hosts until metadata rebuild is finished.

D. CVM on the impacted node reboots.

Correct Answer: D
Section:
Explanation:
When an SSD fails within a node, the CVM on that node will reboot to maintain the health of the cluster. The CVM is responsible for managing the storage and virtualization components of the cluster, and a reboot is necessary to ensure that the cluster continues to function properly. The VMs running on that host will not be affected and continue to run, but the CVM will be unavailable for a short period of time until the reboot is completed. The Cluster continues to operate in a healthy state and doesn't go in read-only mode or cause any host to go down. Reference: https://portal.nutanix.com/page/documents/details?targetId=Web-Console-Guide-Prism-v5_11:wcmonitoring-cluster-health_wc-monitoring-cluster-health.html

QUESTION 47
Refer to the exhibit.

4 hosts ⌄

Host phx-poc173-1

Host phx-poc173-2

Host phx-poc173-3

What is true about the network uplink ports?

A. One is connected at 1GbE and the other is 10GbE.
B. They are configured in Active-Backup mode.
C. All are connected, but only two are carrying traffic.
D. They are configured in Active-Active mode.

Correct Answer: B
Section:
Explanation:
In Nutanix, all the network uplink ports are connected, but only two of them are carrying traffic at any given time. This is done to provide redundancy and failover in case one of the ports fails. The two ports that are carrying traffic are chosen based on the link aggregation policy configured. The link aggregation policy can be configured to use either Active-Active or Active-Backup mode. In Active- Active mode, both ports are active and carrying traffic, while in Active-Backup mode, only one port is active and carrying traffic, the other port is on standby. Reference:
https://portal.nutanix.com/page/documents/details?targetId=Web-Console-Guide-Prism-v5_11:wcnetwork-configuring-uplink-ports_wc-network-configuring-uplink-ports.html

QUESTION 48
Which directory should the LCM Framework Bundle be extracted to on a dark site web server in order to update the LCM Framework?

A. release
B. upgrade
C. software
D. install

Correct Answer: A
Section:
Explanation:
When updating the LCM Framework on a dark site web server, the LCM Framework Bundle should be extracted to the "release" directory. This directory is specifically designated for holding the updated LCM Framework files, and the update process will look for the files in this location. Extracting the bundle to a different directory, such as "upgrade", "software" or "install" would not be sufficient as the LCM Framework update process may not be able to find the files.
Reference:
https://portal.nutanix.com/page/documents/details?targetId=LCM-Guide-v2_11:lc-updating-thelcm-framework_lc-updating-the-lcm-framework.html

QUESTION 49
Which Nutanix data efficiency mechanism replaces a traditional Replication Factor for suitable data?

A. Compression
B. Deduplication
C. Erasure Coding
D. Intelligent Cloning

Correct Answer: C
Section:
Explanation:
Erasure coding is a data efficiency mechanism in Nutanix that replaces the traditional replication factor for suitable data. Erasure coding uses a technique known as "forward error correction" to spread data across multiple drives in a cluster, such that if some drives fail, the data can still be reconstructed. This allows for a much higher storage density and a more efficient use of disk space as compared to traditional replication, where multiple copies of the same data are stored across multiple drives. Deduplication and Compression are also data efficiency mechanisms in Nutanix which help to reduce the storage overhead by eliminating the redundant data. Intelligent Cloning is a Nutanix feature which helps to create multiple instant, space-efficient clones of a VM. Reference:
https://portal.nutanix.com/page/documents/details?targetId=Data-Services-Guide-v2_11:dserasure-coding-overview_ds-erasure-coding-overview.html

QUESTION 50
An administrator receives an alert that a node has failed within a Nutanix AHV-based 10-node cluster.
Before the failure, the cluster CPU and memory utilization was around 50%.
What actions will the cluster automatically take?

A. VMs will be unavailable until the affected host is fully functional.
B. VMs will migrate to other nodes in the cluster with no user impact.
C. The cluster will enter read-only mode and the VMs will be powered down to preserve data.
D. All HA-protected VMs will be automatically restarted on other nodes in the cluster.

Correct Answer: D
Section:
Explanation:
In a Nutanix AHV-based cluster, if a node fails, the cluster will automatically take actions to ensure high availability of the virtual machines. The cluster will automatically live migrate the VMs running on the failed node to other healthy nodes in the cluster without any user impact, this process is known as "Failover" . The live migration process ensures that the VMs are restarted on another node in the cluster as soon as possible with minimal interruption to the users. The cluster
CPU and memory utilization being around 50% at the time of failure does not affect the failover process.
Reference: https://portal.nutanix.com/page/documents/details?targetId=Web-Console-Guide-Prism-v5_11:wc-high-availability-overview_wc-high-availability-overview.html

QUESTION 51
An administrator needs to send weekly performance reviews to several line of business managers about VMs they are managing. Which tool should the administrator use to satisfy this task?

A. Prism Elements Links to Chart analysis
B. Prism Elements New Alert policy
C. Prism Central Projects with data export
D. Prism Central Reports with a schedule

Correct Answer: D
Section:
Explanation:
To send weekly performance reviews to several line of business managers about VMs they are managing, the administrator should use Prism Central Reports with a schedule. Prism Central Reports is a tool that allows the administrator to create custom reports, which can include information such as CPU usage, memory usage, and disk I/O for specific VMs. The administrator can schedule the reports to be generated and sent out on a regular basis, such as weekly. This will allow the line of business managers to review the performance of the VMs they are responsible for on a regular basis, and take appropriate actions if necessary. Reference: https://portal.nutanix.com/page/documents/details?targetId=Prism-Central-Admin-Guidev5_11:pcc-reports-overview_pcc-reports-overview.html

QUESTION 52
Which Nutanix storage efficiency feature is suitable for nearly every workload?

A. Erasure Coding
B. Deduplication
C. Compression
D. Thick Provisioning

Correct Answer: C
Section:
Explanation:
Deduplication is a storage efficiency feature in Nutanix that is suitable for nearly every workload.
Deduplication is a technique that eliminates redundant data and reduces the amount of storage space required to hold that data. This can help to significantly reduce the storage overhead, and improve the overall storage

efficiency of the cluster. Deduplication can be applied to all types of data, including virtual machine disks, and can help to reduce storage costs by reducing the amount of physical storage required. Reference: https://portal.nutanix.com/page/documents/details?targetId=Data-Services-Guide-v2_11:dsdeduplication-overview_ds-deduplication-overview.html

QUESTION 53
Which NIC-teaming configuration balances network traffic based on source/destination IP addresses and TCP/UDP ports?

A. Active-Active with MAC Pinning
B. Active-Active with LACP
C. Active-Backup
D. Active-Passive

Correct Answer: B
Section:
Explanation:
Link Aggregation Control Protocol (LACP) is a NIC-teaming configuration that balances network traffic based on source/destination IP addresses and TCP/UDP ports. LACP allows the administrator to configure multiple NICs as a single logical NIC, known as a Link Aggregation Group (LAG), which can increase the available bandwidth and provide redundancy. LACP uses a hashing algorithm to distribute traffic across the NICs in the LAG, based on the source and destination IP addresses and TCP/UDP ports. This ensures that traffic is evenly distributed across the NICs, which helps to improve overall network performance and availability. Reference: https://portal.nutanix.com/page/documents/details?targetId=Web-Console-Guide-Prism-v5_11:wcnetwork-configuring-uplink-ports_wc-network-configuring-uplink-ports.html

QUESTION 54
What data is stored as a file on storage devices owned by a CVM?

A. Storage Pool
B. vDisk
C. Extent Group
D. Container

Correct Answer: B
Section:
Explanation:
In Nutanix, a virtual disk (vDisk) is a file that is stored on storage devices owned by a CVM (Controller Virtual Machine). A vDisk is a virtual representation of a physical disk and it is used to store the data of a virtual machine. Each virtual machine has one or more vDisks associated with it, and these vDisks can be stored on different types of storage media, such as solid-state drives (SSDs) and hard disk drives (HDDs). The vDisks are stored in a container that is managed by the CVM, and it is the basic building block for storing virtual machine data on the Nutanix cluster. Storage Pool, Extent Group, and Container are all related concepts but different entities in Nutanix. A storage pool is a collection of physical storage devices that are used to store virtual machine data. An extent group is a collection of storage extents that are used to store virtual machine data. A container is a logical grouping of virtual machines, virtual disks, and other objects in Nutanix. Reference: https://portal.nutanix.com/page/documents/details?targetId=Web-Console-Guide-Prism-v5_11:wcstorage-containers-overview_wc-storage-containers-overview.html

QUESTION 55
An administrator needs to upgrade AOS in a vSphere-based NutaniSJve-node cluster with no automatic live migration. VMs have neither affinity nor anti-affinity rules configured.
What will happen to VMs during the AOS upgrade?

A. VMs will be rebooted on other hosts.
B. VMs will continue to run on the same host.
C. Upgrade fails because host can't go in maintenance mode.
D. AOS automatically live migrate VMs to other hosts.

Correct Answer: B
Section:

Explanation:

When upgrading AOS in a vSphere-based Nutanix cluster with no automatic live migration, the VMs will continue to run on the same host, providing that the VMs have neither affinity nor anti-affinity rules configured. The upgrade process will put the host into maintenance mode, which will cause the VMs running on that host to be suspended temporarily. Once the AOS upgrade is completed, the host will be taken out of maintenance mode, and the VMs will be resumed, but running on the same host.

The AOS upgrade process does not automatically live migrate VMs to other hosts, because the automatic live migration feature is not enabled in the cluster. Reference:

https://portal.nutanix.com/page/documents/details?targetId=Web-Console-Guide-Prism-v5_11:wcupgrading-aos_wc-upgrading-aos.html

QUESTION 56

An administrator has recently expanded the Nutanix cluster and noticed that NCC health checks and alerts for newly-added nodes are not being received via email.

What should administrator do to resolve this issue?

A. Add CVM IP in SMTP Relay

B. Configure SMTP

C. Reboot Nutanix cluster

D. Run NCC Health Check

Correct Answer: B
Section:
Explanation:

In order to resolve the issue of not receiving NCC health checks and alerts for newly-added nodes via email, the administrator should configure SMTP (Simple Mail Transfer Protocol) settings. SMTP is used to send email notifications from the Nutanix cluster, and if it is not configured properly, the health checks and alerts will not be sent via email. The administrator should check the SMTP settings in the Prism web console and ensure that they are correct and that the correct email address is specified for receiving notifications. This will ensure that the health checks and alerts for the newlyadded nodes are sent to the correct recipient.

Reference: https://portal.nutanix.com/page/documents/details?targetId=Web-Console-Guide-Prism-v5_11:wc-alerts-configuring-smtp-settings_wc-alerts-configuring-smtp-settings.html

QUESTION 57

When Does AOS automatically Generate a case with nutanix Support?

A. When disk space usage is high above 90%

B. On failure of a scheduled NCC check

C. When losing network connectivity to the CVM

D. For every alert detected by pulse Diagnostics

Correct Answer: B
Section:
Explanation:

Please Re Check From your Side and let me know if the question correction is required

QUESTION 58

An Administrator has recieved the following critical alert:

Node 192.168.148.172 is marked to be detached from metadata the administrator has opened a case with Nutanix and the support engineer has requested more information about the error. which two action should the administrator take in the health check dashboard to collect the requested information? choose two

A. Open A remote support tunnel

B. Run Logbay

C. Create an entity chart

D. Run Nutanix cluster check

Correct Answer: B, D

Section:

QUESTION 59
How should an administrator enable the recycle bin on a nutanix cluster?

A. Select the Enable Recycle Bin checkbox on the storage Overview page

B. select Retain Deleted VMs for 8h in the cluster Details Page of the cluster setting

C. Select the enable recycle bin checkbox in the configure CVM page of the cluster setting

D. Select Retain Deleted VMs for 24h in the cluster details page of the cluster setting

Correct Answer: D
Section:
Explanation:
Check the below.
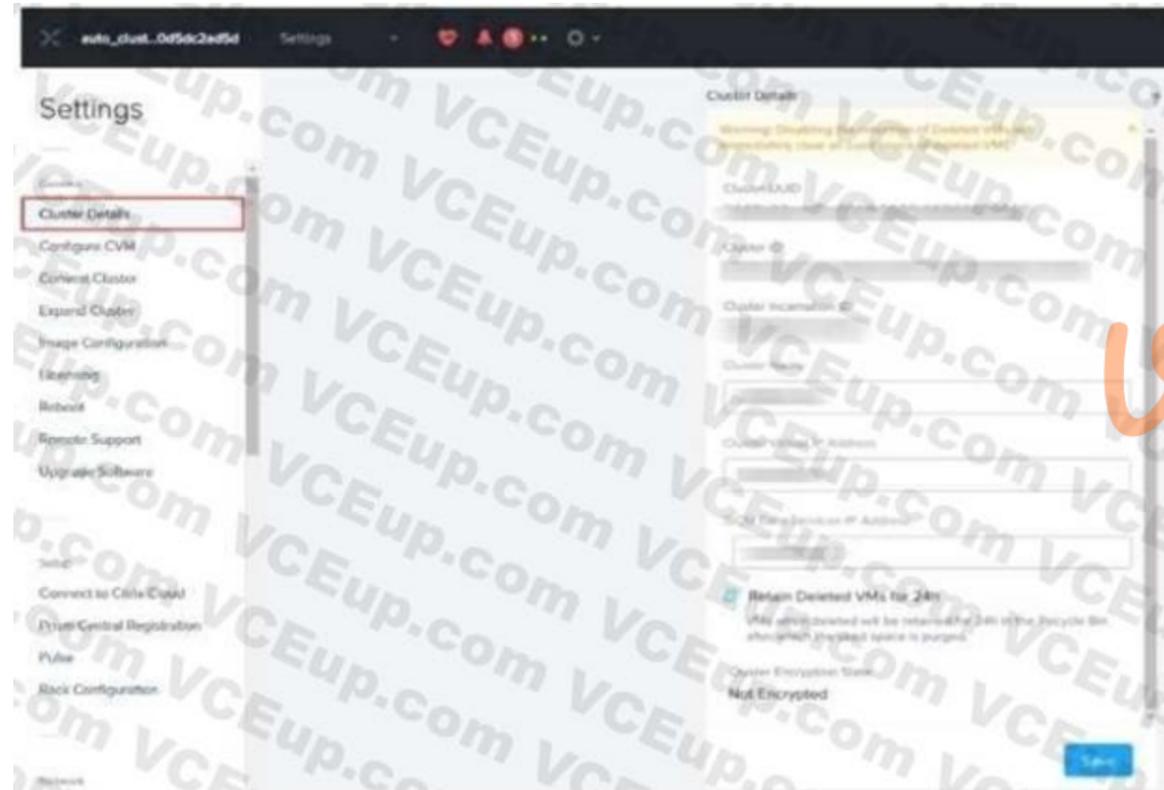
QUESTION 60
An administrator wants to view VMs with NGT Installed and Filter by their installed guest operating systems.
How can this task most quickly be accomplished within prism central?

A. Use a pre-defined Prism Central report

B. Create a custome Focus using the OS Column

C. In the VM dashboard , filter by the nutanix Guest tools - OS field

D. use the Prism central analysis Panel to create a pie chart by OSType

Correct Answer: C
Section:
Explanation:

QUESTION 61
What is the minimum number of blocks required to utilize block awareness?

A. 2
B. 3
C. 4
D. 5

Correct Answer: B
Section:

QUESTION 62
Nutanix Support Asked an administrator to provide AHV logs to help solve a support request .Which task should be performed to provide log files to the support team?

A. Run NCC Check from the command line
B. Upload log files from /home/nutanix/data/logs folder
C. collect logs from the health Page
D. Enable Pulse to include additional support information

Correct Answer: A
Section:

QUESTION 63
An administrator needs to upgrade AOS for an air gapped cluster by using Prism Element.
Which two actions allow the administrator to perform the upgrade? Choose Two

A. Extract the AOS binaries to the CVM
B. Manually Upload Binaries to a local http server
C. Manually Upload AOS binaries and metadata
D. Use the LCM dark site Option Providing AOS Binaries

Correct Answer: C, D
Section:

QUESTION 64
Which Component Allows you to pair sites for disaster Recovery Policy Creation Using Nutanix Leap?

A. Availability Zones
B. Protection Domains
C. Recovery Plans
D. Protection Policies

Correct Answer: A
Section:

QUESTION 65
What is required to successfully live migrate a VM Between two AHV clusters?

A. Stretch L2 networks across the primary and recovery sites
B. Configure a Protection domain with synchronous replication
C. Install and Configure the witness VM on a third Site.
D. Both clusters must be managed by the same prism central

Correct Answer: B
Section:
Explanation:
Re Check From your Side and let me know if the question correction is required

QUESTION 66
Where Does an administrator go to take a consolidated backup of the Key manager Servers?

A. Prism Central
B. Foundation Central
C. Prism Element
D. Security Central

Correct Answer: A
Section:

QUESTION 67
How should an administrator view the storage consumed by the recycle bin?

A. On the storage Overview dashboard
B. In the Cluster Details Page of the cluster setting
C. On the storage Summary Widget on the Prism Dashboard
D. In the Diagram or Table view on the Storage dashboard

Correct Answer: D
Section:

QUESTION 68
An administrator has been tasked with delivering a report on all nutanix Field Advisors (FAs) Affecting each of the clusters.
What is the most efficient way to collect this data?

A. Request an environmental audit from the Nutanix Support
B. Use Prism to run NCC and Check for information on FAs
C. Review the discoveries information on the support Portal
D. Review Field Advisories published on the Support Portal

Correct Answer: B
Section:

QUESTION 69
A Cluster is Experiencing an occasional issue that does not impact production services.
Which support case priority level should be assigned?

A. P1 - Emergency

B. P2 - Critical

C. P3 - Normal

D. P4 - Low

Correct Answer: C
Section:
Explanation:
According to Nutanix Support Best Practices, P3 cases are designated for issues that have a moderate business impact or affect non-production systems. P3 cases are intended for issues that are important but not critical, and the issue can be deferred while continuing with normal business operations. Examples of P3 cases include software defects, minor configuration issues, or minor hardware problems.

QUESTION 70
A 10 GbE link has failed on Node A within the following cluster environment:
Four-node AHV-based cluster
All node have only two 10 GbE ports connected to the network
Active-backup is configured
What impact will user VMs experience from this issue?

A. Performance will Decrease

B. Will failover to another node

C. Will have no impact

D. Will shutdown

Correct Answer: C
Section:
Explanation:
In Active-backup mode, one network interface is active while the other is in standby mode. If the active interface fails, the standby interface takes over, providing seamless failover without any disruption to user VMs. In this case, since the cluster has two 10 GbE ports on each node, and only one link has failed, the user VMs will continue to operate normally using the second link.

QUESTION 71
Which tool provides diagnostic system data for Nutanix to deliver proactive support? (Choose Correct answer and give explanation/References from Nutanix Certified Associate (NCA) v6.5 official study resources)

A. NCC

B. Cluster Heart

C. Pulse

D.

Correct Answer: C
Section:
Explanation:
A. NCC
B. Cluster Heart
C. Pulse
D. Cluster health

Answer: C
Explanation:
Pulse is a built-in tool that periodically collects and sends diagnostic data to Nutanix support for proactive monitoring and troubleshooting. This data includes cluster configuration, performance metrics, and error logs, among other things.
Nutanix support can use this data to identify and resolve issues before they become critical, and to provide recommendations for optimizing cluster performance.
NCC (Nutanix Cluster Check) is another tool provided by Nutanix, but it is used for performing manual health checks and diagnostics on the cluster, rather than providing proactive support.
Cluster Heart and Cluster Health are not tools provided by Nutanix, and are not relevant to this question.
Reference: Nutanix Certified Associate (NCA) 6.5 Student Guide, Module 11: Cluster Management,
Topic 11.1: Proactive and Predictive Support.

QUESTION 72
User are complaining that web application hosted on a Nutanix cluster are running slow. After reviewing the performance metric, it is determined that the CPU Ready time is high in the cluster.
What entity is impacted by CPU ready time?

A. Oplog
B. NIC
C. vDisk
D. VM

Correct Answer: A
Section:
Explanation:
The oplog is a critical component of the Nutanix distributed storage fabric and can be impacted by high CPU Ready time. When the CPU Ready time is high, there can be delays in writing data to the oplog, resulting in slower overall cluster performance. Additionally, high CPU Ready time can also lead to increased write amplification, further reducing I/O performance.

QUESTION 73
What type of relationship does a VM Affinity policy define?

A. VM to VM
B. VM to Storage tier
C. VM to Network VLAN
D. VM to Host

Correct Answer: D
Section:
Explanation:
The type of relationship that a VM Affinity policy defines is VM to Host. A VM Affinity policy is used to specify which host a virtual machine should be placed on. This can be used to ensure that certain VMs are always running on the same host for performance or availability reasons. Additionally, VM Affinity policies can also be used to ensure that VMs are spread across multiple hosts for better load balancing.

QUESTION 74
Which VM-level feature ensures continuous availability of data?

A. Replication Factor
B. Data Locality
C. Data Protection
D. Deduplication

Correct Answer: C

Section:
Explanation:
Data Protection is a feature that ensures that data stored on a VM is protected against data loss in the event of hardware failure, data corruption, or other unexpected events. It typically includes features such as snapshots, replication, and backup, which enable administrators to create multiple copies of data and store them in different locations to provide redundancy and ensure availability.
Replication Factor is a related concept, but it is not a VM-level feature in and of itself. Replication Factor is a setting that can be configured at the storage level to determine how many copies of data are stored on different nodes in a distributed storage system. Data Locality and Deduplication are also related concepts, but they do not directly ensure continuous availability of data.

QUESTION 75
What happens to images that are imported into Prism Central?

A. Copied to the Prism Central image repository

B. Remain in the source duster after import

C. Copied to all clusters managed by Prism Central

D. Deleted from the source cluster after import

Correct Answer: A
Section:
Explanation:
The Prism Central image repository is a centralized location for storing virtual machine images that can be used to deploy VMs to any cluster managed by Prism Central. When an image is imported into Prism Central, a copy of the image is made and stored in the repository, so that it can be easily accessed and deployed to any cluster as needed.
The original image file typically remains in the source cluster after it is imported into Prism Central, unless it is explicitly deleted. Similarly, the image copy in the Prism Central repository is not automatically copied to all clusters managed by Prism Central, but can be used to deploy new VMs on any cluster as needed.

QUESTION 76
Which cluster configuration is LCM unable to perform firmware upgrades against?

A. Five-node

B. Three-node

C. Two - node
    D. Singleâ€"node

Correct Answer: D
Section:
Explanation:
LCM (Lifecycle Manager) is a tool provided by Nutanix to automate software and firmware upgrades for Nutanix clusters. However, LCM is unable to perform firmware upgrades against a (D) Single-node cluster configuration. This is because a single-node cluster does not have any redundancy, so there is no way to perform an upgrade without taking the entire cluster offline. In contrast, multi-node clusters can typically be upgraded in a rolling fashion, with one or more nodes being upgraded at a time while the rest of the cluster remains online.
LCM is capable of performing firmware upgrades against two-node, three-node, and five-node cluster configurations, as long as they meet the other requirements for LCM support (such as being on a supported AOS release and having the appropriate network connectivity).

QUESTION 77
How is the destination cluster determined when uploading images from the local workstation to Prism Central?

A. Selected randomly

B. Selected manually

C. Selected alphabetically

D. Selected sequentially

Correct Answer: C
Section:
Explanation:
When uploading images from a local workstation to Prism Central, the destination cluster is determined based on the alphabetical order of the cluster names. Specifically, the first available cluster in alphabetical order is selected as the destination for the image upload.
This behavior is documented in the Prism Central Admin Guide, which states that when you upload an image to Prism Central, "the image is stored in the first cluster that has sufficient space and starts with the letter that appears first in the image name."

QUESTION 78
How long does a Nutanix cluster's Recycle Bin retain deleted vDisk and configuration data files?

A. 6 Hours

B. 12 Hours

C. 24 Hours

D. 48 Hours

Correct Answer: C
Section:
Explanation:
The Recycle Bin is a feature that allows administrators to recover data that has been accidentally deleted from the cluster, by storing deleted files in a temporary holding area for a certain period of time. During this time, the deleted files can be restored to their original location, effectively undoing the deletion.
The default retention period for the Recycle Bin is 24 hours, which means that any files that are deleted from the cluster will be retained in the Recycle Bin for a period of 24 hours before they are permanently deleted. This retention period can be customized to suit the needs of a particular environment, but the default value is 24 hours.

QUESTION 79
What is the maximum transmission units (MTU) supported by Nutanix CVM?

A. 1472 bytes

B. 9000 bytes

C. 9216 bytes

D. 1500 bytes

Correct Answer: D
Section:

QUESTION 80
Which storage protocol is used to attach a container to an ESXi host?

A. CIFS

B. FCoE

C. SMB

D. NFS

Correct Answer: D
Section:

QUESTION 81

An administrator needs to check which users have created VMs within the previous two weeks.
How can the administrator satisfy this task?

A. Create a filter in Prism Central Audits page
B. CSV export Events list from Prism Central page
C. Sort operation messages in Prism Element Tasks page
D. Use Analysis Page in Prism Element and adjust time range

Correct Answer: A
Section:

QUESTION 82
After starting an LCM update from Prism Element, on which dashboard can the progress be monitored?

A. Tasks
B. Alerts
C. Health
D. Analysis

Correct Answer: A
Section:

QUESTION 83
Which area of the Prism Element homepage displays a cluster's current fitness?

A. Alert and Messages
B. Settings and Configuration
C. Health and Data Resiliency
D. Performance and Usage Statistics

Correct Answer: C
Section: