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NUTANIX NCP EXAM

1. **Which process should a cluster administrator follow to determine the uplink bond configuration mode?**
   A. Log into the Nutanix CVM and execute the command manage_ovs update_uplinks
   B. Log into the Nutanix AHV host and execute the command ovs-appctl bond/show
   C. Log into the Nutanix AHV host and execute the command ifconfig br0
   D. Log into the Nutanix CVM and execute the command ovs-vsctl show

   Answer: B

2. **Which bond mode is the default mode on an AHV Nutanix Cluster**
   A. Link Aggregation
   B. Balance SLB
   C. Balance TCP
   D. Active Backup
   Answer: D
3. **What options are available when a live migration is performed on a VM in a 5.5 implementation?**
   A. The VM can be moved to a different host.
   B. The VM can be moved to a different host and a different storage container.
   C. The VM can be moved to a different storage container.
   D. The VM can be moved to a different (remote) site.
   Answer: A
4. **Write I/O that is deemed sequential will enter which component of the Distributed Storage Fabric first?**
   A. Oplog
   B. Extent Store
   C. Cache
   D. Metadata Ring
   Answer: B
5. **An administrator has been tasked with storing Nutanix snapshots of an off-premises location. The administrator does not have a second Nutanix cluster to use.**
   Which two services could be utilized as remote sites for snapshots? (Choose two)
   A. Google Cloud Platform
   B. Amazon Web Services
   C. Microsoft Azure
   D. Xi Cloud Services
   E. The IBM Cloud
   Answer: B C
6. **Which configuration item is required to set up email alerts?**
   A. NTP
   B. Pulse
   C. SNMP
   D. SMTP
   Answer: D

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7. **What is the default level of Verbosity used when enabling Nutanix Pulse?**
   A. Nothing
   B. Basic
   C. Basic Coredump
   D. Verbose
   Answer: C
8. **Which three Virtual Machine components can be monitored in the VM Dashboard in Prism Element? (Choose three.)**
   A. CPU Utilization
   B. I/O Latency
   C. Flash Mode Capability
   D. Memory Utilization
   E. Network Utilization
   Answers: A B D
9. **An administrator needs to move a Nutanix host from one cluster to another.**
   Which step should the administrator take after evacuating VMs from the host to be moved?
   A. From the Task menu in Prism, select Cluster Details, then un-check the host from the list
   B. In Prism, highlight the host in the Hardware pane and select Remove Host
   C. In Prism, highlight the host in the Hardware pane and select Remove from Metadata Ring
   D. From the Task menu in Prism, select Licensing, the delete the host license
   Answer: B
10. **An administrator encounters an error in Prism. After searching through the Nutanix product documentation and Knowledge Base, the administrator decides to engage Nutanix Support for further assistance.**
    Which three items will help Nutanix Support to triage and resolve this error most efficiently? (Choose three.)
    A. Cluster Name
    B. Licensing Information
    C. NCC Output
    D. Log Bundle
    E. Detailed Description
    Answers: C D E
11. Answer: The Cluster, The CVM & The Hypervisor Head
12. **Which configuration can be used for data encryption on a Nutanix cluster regardless of the hardware configuration?**
    A. Self-Encryption Drives
    B. Software Encryption
    C. In-line Compression
    D. SSL Certificates
    Answer: B

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13. **Which two items are required to manually updated an AOS update to a Nutanix Cluster? (Choose two.)**
    A. YML file
    B. JSON file
    C. AOS Binary
    D. AOS zip file
    E. AFS Binary file
    Answers: B C
14. **An administrator has a 4-node Nutanix cluster running on AHV. The administrator creates a new storage container and makes that available to all host.**
    Which storage protocol is used for Virtual Machines to access virtual disks on the storage container?
    A. NFS
    B. SMB/CIFS
    C. ISCSI
    D. Fibre Channel
    Answer: C
15. **An administrator finds that guests VMs are offline and storage is unavailable. The administrator needs to know if any processes within the CVMs on the Nutanix cluster are experiencing crashes.**
    Which log files should the administrator locate to determine if any processes have created?
    A. ERROR logs
    B. INFO logs
    C. FATAL logs
    D. WARN logs
    Answer: C
16. **An administrator wants to present storage to an external non-Nutanix host via ISCSI.**
    Which construct should the administrator configure in Prism to create this ISCSI volume?
    A. Volume Groups
    B. Protection Domains
    C. Storage Container
    D. Storage Pool
    Answer: A
17. **An administrator needs to ensure that resources are reserved so that all VMs are able to restart in the event of a host failure.**
    Which steps should the administrator take to ensure the cluster is configured and operating appropriately?
    A. In the Prism Hardware desktop, select each host and confirm the RF is set to 3 under Host Details.
    B. Under the Gear Icon, select Manage VM High Availability and check Enable HA Reservation
    C. Under the Gear Icon, select Degraded Node Settings and confirm that no host are degraded
    D. On a Nutanix CVM, execute the command ncli cluster get-domain-fault-tolerance-status type-node
    Answer: B

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18. **Which Nutanix product combines the Distributed Storage Fabric (DSF) and Application Mobility Fabric (AMF)?**
    A. Xtract
    B. Prism
    C. Acropolis
    D. Calm
    Answer: C
19. **A Nutanix administrator receives a request from the networking team to start sending SNMP Traps to their central reporting solution. The administrator creates the transport. The central monitoring tool is not able to clearly read the SNMP Traps that are being sent.**
    What does the administrator need to provide to read the SNMP Traps correctly?
    A. Cluster Virtual IP Address
    B. SNMP Trap Port
    C. TCP/IP Address
    D. Nutanix MIB File
    Answer: D
20. **An engineer logs into a CVM to troubleshoot connectivity loss between two CVMs and finds the following interfaces, subnets, and VLANs configured:**
    - **eth0 - VLAN 10 - 10.1.10.0/24**
    - **eth1 - no VLAN - 192.168.5.0/24**
    - **eth2 - LAN 20 - 10.1.20.0/24**

    Which two Nutanix networking features are being utilized? (Choose two.)

    A. Internal vSwitch
    B. IP Address Management
    C. Network Load Balancing
    D. Backplane LAN
    Answers: A D
21. **An administrator has a 4-node Nutanix cluster running on Hyper-V. The administrator creates a new storage container and makes that available to all hosts.**
    Which storage protocol should the administrator use for the host to gain access to the storage container?
    A. NFS
    B. ISCSI
    C. SMB/CIFS
    D. Fibre Channel
    Answer: C
22. **An administrator wants to be able to manage their applications from Prism Central.**
    Which feature must the administrator enable to allow for application management?
    A. Capacity Runaway
    B. Self-Service Portal
    C. Entity Explorer
    D. Image Management
    Answer: B

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23. **An administrator needs to manage VMs from Prism when the cluster is running on ESXI. The VM management options in Prism are greyed out and unavailable.**
Which procedure should the administrator complete to manage VMs from Prism when using the ESXI Hypervisor?
    A. vCenter must be registered in Prism
    B. Prism does not support managing VMs on ESXI
    C. Administrator must upgrade Prism license.
    D. Only Prism Central can manage VMs for ESXI clusters.
    Answer: A guess
24. **Which set of steps should be used to stop the cluster in Nutanix operations?**
    A. 1. Shut down Nutanix CVMs and Guest VMs. 2. Log on to a running Controller VM in the cluster with SSH. 3. Stop the Nutanix cluster
    B. 1. Shut down Nutanix Controller VMs. 2. Log on to a running Controller VM in the cluster with SSH. 3. Stop the Nutanix cluster.
    C. 1. Shut down all guest VMs. 2. Log on to a running Controller VM in the cluster with SSH. 3. Stop the Nutanix cluster
    D. 1. Log on to a running Controller VM in the cluster with SSH. 2. Shut down all other Controller VMs 3. Stop the Nutanix cluster
    Answer: C
25. **What are the three steps need to be taken to successfully enable NearSync? (Choose three.)**
    - **2 nodes at both the primary and remote sites**
    - **60TB of storage on each node**
    - **1.9TB SSD disks in each node**
    - **8 VMs per protection domain**
    - **A mix of ESXI and AHV hypervisors**

    A. Increase the number of nodes at both sites to a minimum of 3.
    B. Reduce the amount of storage on each node to no more than 40TB.
    C. Reduce the SSD disk type to no more than 1TB.
    D. Increase the amount of VMs in each protection domain to at least 10.
    E. Use all AHV or all ESXI hypervisors in the implementation.
    Answers: A B E
26. **An administrator needs to provide ISCSI storage to a VM on the Nutanix cluster running ESXI. Which native Nutanix feature should be leveraged to meet this requirement?**
    A. Acropolis File Services
    B. Acropolis Block Services
    C. NFS whitelist
    D. Storage Container
    Answer: D

27. **An administrator needs to deploy a Nutanix cluster that hosts the following workloads:**
    - **1000 persistent virtual desktop VMs**
    - **100 generic server VMs**
    - **5 Microsoft Exchange server VMs**
    - **10 SQL server VMs**

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Which container configuration should be deployed to maximize data efficiency?

A. 1 container with compression enabled and 1 container with deduplication
B. 2 containers with deduplication and erasure coding enabled
C. 2 containers with no data efficiency mechanisms enabled
D. 1 container with compression enabled and 1 container with erasure coding enabled

Answer: D

28. **An administrator has a 3-node Nutanix cluster. The administrator stores critical data on an VM that runs on the cluster. Data must still be available through two host failures.**
Which three configuration steps must the administrator take to meet this requirement? (Choose three.)

A. Add 3 nodes to the cluster
B. Convert the cluster from RF2 to RF3
C. Convert the container from RF2 to RF3
D. Enable Compression for more space
E. Increase CVM memory to 24GB

Answer: A B C

29. **An administrator recently executed maintenance on their network. After, they would like to verify that this maintenance window did not have any adverse effects on their Nutanix cluster by running Nutanix Cluster Check (NCC).**
Which two interfaces can be used to run NCC? (Choose two.)

A. REST API
B. Powershell
C. Prism
D. CLI
E. IPMI

Answer: C D

30. **An administrator needs to configure Acropolis File Services (AFS). The administrator is setting up AFS the first time on the Nutanix cluster.**
How many file services VMs are created by default?

A. 4
B. 3
C. 2
D. 1

Answer: B

31. **An administrator is preparing to migrate VMs from a legacy ESXI cluster to a new AHV cluster.**
Which action must the administrator perform on the AHV cluster to migrate VM data?

A. Install the Nutanix VirtIO drivers
B. Whitelist the ESX cluster IP addresses
C. Create placeholder VMs
D. Install Nutanix Self-Service Restore

Answer: B

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32. **An administrator has just excluded a maintenance window for some applications running on their Nutanix cluster. After completing the maintenance, they want to assess the health of the cluster and make sure that there is no impact during the maintenance.**
Which three dashboards in Prism will assist the administrator in making the determination? (Choose three.)
A. Data Protection
B. Cluster Health
C. Tasks
D. Alerts
E. Analysis
Answers: B D E

33. **An administrator is auditing the recent alerts on the cluster to report to their management.**
Which dashboard in Prism Central can be used to generate this report?
A. Alerts
B. Explore
C. Apps
D. Analysis
Answer: B

34. **Which Nutanix feature allows for a less than 60-minute RPO and leverages Light Weight Snapshots (LWS)?**
A. Cloud Connect
B. Nutanix Guest Tools
C. Near Sync
D. Volume Group
Answer: C

35. **An administrator wants to make sure that the health of a cluster is in a good state.**
Which command line utility will provide information related to the health of the cluster?
A. ncc
B. genesis status
C. top
D. Iostat
Answer: A

36. **An administrator wants to view the IOPs statistics for each host simultaneously on the same graph.**
Which type of chart on the analysis page meets this requirement?
A. Performance chart
B. Entity chart
C. Measurement chart
D. Metric chart
Answer: B

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37. Which two image types are stored by the Nutanix Image Service? (Choose two.)

A. VH0X
B. ISO
C. VMDK
D. Disk
E. QCOW2

Answer: B D

38. Which CVM service is primarily responsible for handling all metadata operations within a Nutanix cluster?

A. Stargate
B. Zeus
C. Genesis
D. Cassandra

Answer: D

39. Unclear Image

40. An administrator is working with sensitive data and wants to encrypt that data by Nutanix Software Encryption.
Which three types of information and components are required to enable this configuration? (Choose three.)

A. Key Management Server (KMS)
B. Root Certificate Authority (CA)
C. Signed Certificates for each CVM
D. KMS Certificate
E. Self-Encryption Drives (SED)

Answer: A C D

41. An administrator must make sure that a business-critical application experiences consistent I/O latency.
Which feature should the administrator enable to meet this requirement?

A. VM-Host Affinity
B. VM High Availability
C. VM Flash Mode
D. VM-Host Anti-Affinity

Answer: C Guess

42. Which type of data is distributed by Zookeeper to ensure availability in the case of node or block failure?

A. User Data
B. Metadata
C. Configuration Data
D. Snapshot Data

Answer: C

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43. **Which Prism dashboard should an administrator use to set the frequency of NCC?**
    A. Data Protection
    B. Cluster Health
    C. Alerts
    D. Tasks
    Answer: B

44. **Which Prism Dashboard should be used to collect CPU/Memory and Disk I/O statistics over time?**
    A. Health
    B. Alerts
    C. Hardware
    D. Analysis
    Answer: D

45. **Which service performs snapshots in an AOS 5.5 implementation?**
    A. Prism
    B. Stargate
    C. Zookeeper
    D. Medusa
    Answer: B

46. **Clusters are configured with an HTTP Proxy server. An administrator wants to deploy Prism Central.**
    Which scenario requires the administrator to configure the HTTP Proxy Whitelist method?
    A. HTTP port 8000 not open in Proxy
    B. SSL port 443 not open in Proxy
    C. HTTP port 80 not open in Proxy
    D. SSL port 9440 not open in proxy

    Answer: D

47. **An administrator manages a 4-block, 16 node Nutanix cluster. One block experiences a Power Delivery Unit (PDU) failure. All nodes in that block power off. VMs on the affected nodes restart as expected. The cluster continues normal operation until power is restored.**
    Which Nutanix feature is responsible for maintaining operation in this scenario?
    A. IO Redirection
    B. Block Awareness
    C. Async Disaster Recovery
    D. Nutanix App Mobility Fabric
    Answer: B

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48. **An administrator is migrating workloads to a Nutanix cluster. While the Nutanix cluster is ingesting data from the migration, the utilization of the SSDs increases, periodically drops to approximately 75% utilization, then continues to increase.**
Which Distributed Fabric (DSF) concept is causing this behavior?
A. Redundancy Factor 2 (RF2)
B. Information Lifecycle Management (ILM)
C. Virtual Machine Snapshotting and Cloning
D. Data Patch Resiliency
Answer: D

49. **An administrator installs Nutanix-specific PowerShell cmdlets fail to run.**
Which two requirements should the administrator verify first? (Choose two)
A. Windows 2016 r2 or later is installed
B. The cmdlets have the proper permissions
C. PowerShell 2.0 or later is installed
D. .Net Framework 4.0 is installed
E. Python 2.7 or greater is installed

Answer: C D

50. **An administrator is managing a highly active SQL workload that is I/O in 2MB chunks to a vDisk. The administrator wants to optimize capacity settings for the container.**
Which storage optimization technology should the administrator select to meet the requirements?
A. Erasure Coding
B. Compression
C. Capacity Deduplication
D. Cache Deduplication
Answer: A

51. **An administrator is migrating ESXI VMs to a Nutanix AHV cluster. The VM data is available to the AHV system.**
Which process must the administrator complete before AHV can be created?
A. Import the VM's .vmx file using the Image Service
B. Rename the -flat.vmdk files using the image Service
C. Import the VM's -flat.vmdk files using the Image Service
D. Import the VM's .nvram file using the Image Service
Answer: C

52. **An administrator wants to view the total IOPs, Read IOPs on a single graph in Prism.**
Which type of chart on the analysis page is capable of allowing this view?
A. Metric chart
B. Entity chart
C. Performance chart
D. Measurement chart
Answer: A

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53. **For security reasons, an administrator needs to logically separate management and data traffic on a Nutanix cluster.**
Which feature should the administrator select for this configuration?
A. Prism Central
B. Network Visualization
C. Network Segmentation
D. Microsegmentation

Answer: C

54. **An administrator needs to determine current CPU usage across multiple clusters.**
Which method should the administrator use to get this information?
A. Prism Central, Home
B. Prism Central, Home, +add Widgets
C. Prism Central, Explore, Clusters
D. Prism Central, Home, Manage Dashboards

Answer: A

55. **Which three settings are required for network switch discovery in Prism? (Choose three.)**
A. Switch management IP address
B. AHV Host IP addresses
C. Cluster CVM IP addresses
D. SMTP Server IP address
E. SNMP Community Name

Answers: A B E

56. **Which Nutanix cluster service manages VM access to the Distributed Storage Fabric?**
A. Medusa
B. Stargate
C. Pithos
D. Acropolis

Answer: B

57. **What is the default behavior for VM High Availability for Nutanix AHV?**
A. VMs restart on other hosts as available resources allow
B. No VMs restart because HA is not enabled by default
C. All VMs restart because system reservations are already made
D. Only VMs with High Availability explicitly enable will restart

Answer: A

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58. **An administrator needs to power down an AHV node in order to replace a failed DIMM.**
Which step should the administrator take after placing the node maintenance mode?
A. Execute the command cluster status
B. Power off the node
C. Shut down the Nutanix CVM
D. Reboot the Nutanix CVM
Answer: B

59. **A client needs a backup solution to allow the ability to replicate small data sets to the public cloud. The RPO of this tertiary data must be 24 hours or better.**
Which solution should an engineer recommend to the client based on these requirements?
A. Protection Domain
B. Cloud Connect
C. Near Sync
D. XI Cloud Service

Answer: B

60. **An administrator needs to modify the configuration of a recently deployed Acropolis File Service (AFS) instance.**
Which two are valid configuration settings under the File Server update option? (Choose two.)
A. File Server VM configuration
B. File Server block size
C. File Server OS type
D. Number of File Server VMs
E. File Server data replication
Answers: A D

61. **An administrator is creating a new Windows VM in AHV after migrating its data from ESXI.**
Which two parameters should be set identically to the VMs settings in ESXI? (Choose two.)
A. Screen Resolution
B. Host Affinity
C. vCPU Cores
D. Memory
E. VLAN IDs
Answers: C D

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62. **An administrator sets up a Protection Domain that replicates to a Remote Site. The administrator must perform DR tests every 6 months.**
Which snapshots is used when Activate is clicked on the Remote Site's Protection Domain?
A. A new snapshot is taken automatically so the original is not modified
B. The oldest Protection Domain snapshots at the Remote Site is used.
C. A new snapshot is taken and replicated over from the Source cluster.
D. The newest Protection Domain snapshot at the Remote Site is used.
Answer: D

63. **An administrator is configuring NTP for a Nutanix Cluster.**
How many NTP sources must they configure to identify a false ticker and provide redundancy?
A. 2
B. 4
C. 3
D. 5
Answer: B

64. **An administrator wants to secure an application running on an AHV cluster by limiting incoming and outgoing traffic destinations. The administrator creates a security policy for the application.**
What is the next step?
A. Apply the Security Policy
B. Create an Isolation Policy
C. Add the Security Policy to an existing Isolation Policy
D. Restart the VM hosting the application
Answer: B

65. **Which Nutanix feature allows a Nutanix cluster to present ISCSI storage to an external device?**
A. Acropolis File Services
B. Acropolis Block Services
C. Storage Pool
D. Storage Container
Answer: B

66. **Which two targets are valid options when selecting a Remote Site in Prism? (Choose two.)**
A. XI Cloud Services
B. Physical Cluster
C. Network Attached Storage
D. Cloud
E. Tape Library
Answers: B D

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67. What three drivers are included in the Nutanix VirtIO package? (Choose three.)

A. SCSI Driver
B. Memory Balloon Driver
C. USB Driver
D. Video Driver
E. NIC Driver

Answers: A B E

68. An administrator has observed that when an all-flash AHV host restarts unexpectedly, one VM it hosts does not restart as expected.

Which cluster or VM configuration explains this behavior?

A. No other all-flash nodes have the capacity to host the VM
B. Nutanix Guest Tools are not installed on the VM
C. Affinity for the VM is set for only the host that rebooted
D. VM High Availability is not enabled

Answer: C

69. What is the maximum Recovery Point Objective (RPO) that can be configured for VMs using the NearSync feature?

A. 1 minute
B. 10 minutes
C. 15 minutes
D. 60 minutes

Answer: B

70. An administrator is installing on a newly created cluster. The cluster is behind a DMZ with no connection to the internet.

Which two steps encompass the commit process to install licenses to the cluster? (Choose two.)

A. Temporarily connect to the cluster to the internet and follow the process in Prism
B. Enter the cluster summary file info on a system connected to the internet and download a license file.
C. Copy the license file to a USB drive and upload it to the cluster
D. Upload the license file downloaded to the cluster.

Answers: B C

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71. **No Question**
72. **A VM user permanently deletes a directory on a guest VM. The Nutanix administrator has enables Self-Service Restore for the VM.**
    Which three steps must the administrator perform to restore the directory? (Choose three.)
    A. Create a clone of the VM from a previous snapshot and replace the original VM
    B. Connect to the cloned VM and copy the directory to the source VM
    C. Copy the directory from the snapshots disk to the original VM disk
    D. Launch the Nutanix SSR utility on the VM
    E. Select and mount the snapshot that contains the deleted directory

    Answers: C D E

73. **Which two features require the Nutanix Guest Tools package is installed? (Choose two.)**
    A. Self-Service Restore
    B. Volume Snapshot Service
    C. Network Visualization
    D. Image Service
    E. Prism Central

    Answers: A B
74. **An administrator has a 5-node cluster configured for RF2 with 200TB of new disk space. The administrator decides to enable Erasure Coding to gain adding usable space.**
    Approximately how much usable space would be available after enabling Erasure Coding?
    A. 100TB
    B. 125TB
    C. 150TB
    D. 175TB

    Answer: C
75. **An administrator has a cluster in a secure environment. The administrator wants to disable password authentication over SSH to access the cluster.**
    Which configuration should the administrator use to disable password authentication over SSH?
    A. Modify the SSH configuration on each host
    B. Enable Cluster Lockdown in Prism
    C. Modify the SSH configuration on each CVM
    D. Configure a proxy server in Prism

    Answer: D

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