Vendor: Nutanix

Exam Code: NCP-EUC

Exam Name: Nutanix Certified Professional - End - User Computing

Version: DEMO

QUESTION 1
A company has decided to use Citrix Optimizer tool to prepare their gold image. Which two actions does Optimizer take to improve the gold image creation process? (Choose two.)

A. Optimizes storage capacity usage.
B. Optimizes user environments for better performance
C. uses built-in templates to perform optimizations.
D. Applies best practices for securing virtual desktops.

Answer: BC
Explanation:
The Citrix Optimizer tool is used to prepare Windows operating system images for use in a virtual desktop environment. Some of the actions that it takes to improve the gold image creation process include:
Optimizes user environments for better performance: The tool removes unnecessary or redundant services, features, and applications from the image, which can improve performance and reduce resource usage.
Uses built-in templates to perform optimizations: The tool comes with pre-configured templates that are optimized for specific environments, such as virtual desktops or server workloads. These templates can be customized based on the specific needs of the organization.

QUESTION 2
How should the storage containers be configured to follow Nutanix storage best practices?

A. Use a single container.
   Enable Compression and Deduplication for both VMS
B. Use separate containers.
   Enable Compression for non-persistent VMS.
   Enable Compression and Deduplication for persistent VMS
C. Use a single container.
   Enable Compression and Erasure Coding for both VMS
D. Use separate containers.
   Enable Compression for persistent VMS.
   Enable Compression and Deduplication for nan-persistent VMS

Answer: B
Explanation:
Nutanix recommends using separate containers for persistent and non-persistent VMS. For persistent VMS, enable compression and deduplication. For non-persistent VMS, enable compression only.
According to Nutanix documentation, it is recommended to use multiple containers, with each container representing an individual performance workload. This allows for better performance isolation and easier management. For example, one container could be used for VDI workloads, while another container could be used for general-purpose workloads. As for compression and deduplication, it is recommended to enable them for all VMs. Compression reduces the amount of storage space required and increases the performance of the system, while deduplication reduces the amount of duplicate data stored on the system. Erasure coding can also be used as an alternative to replication for data protection.

QUESTION 3
An administrator needs to deploy virtual desktops to a Hyper-V Nutanix cluster with writable differencing disks, The administrator will use read only master image with clones that link back to the image.

Which native feature will the cluster use to complete this task?

A. Oplog
B. Compression
C. VM Flash Mode
D. Shadow Clones

Answer: D
Explanation:
The feature in Nutanix that would be used to complete the task of deploying virtual desktops to a Hyper-V Nutanix cluster with writable differencing disks using a read-only master image with clones that link back to the image is Shadow Clones. Shadow Clones allow for the creation of a snapshot or a clone of a VM that uses the original VM's disks as read-only, and only writes changes to a separate differencing disk. This is useful when deploying virtual desktops as it can reduce storage requirements and improve performance.
Nutanix shadow clones are a feature that enables distributed caching of virtual disks (vDisks) that are in a multi-reader scenario. This can improve performance and reduce network traffic for scenarios such as VDI or private clone boot storms.

QUESTION 4
A Windows IO VM fails to power on With an NVIDIA vCPU profile in ESXi 7. The VM is configured with NVIDIA profile by selecting Shared PCI Device, adding the NVIDIA GRID vCPU device. and selecting the Profile under VM settings.
The following error message is displayed in the vSphere web client:

```
An error was received from the ESX host while powering on VM win10.

Failed to start the virtual machine

Module 'DevicePowerOn' power on failed.

Could not initialize plugin '/usr/lib64/vmware/plugin/libnvidia-vgx.so' for vGPU 'grid_m60-4q'

No graphics device is available for vGPU 'grid_m60-4q'.
```

What should be done to resolve this issue?

A. Change the Graphics mode of the host from Shared to Shared Direct
B. Change the Graphics mode of the host from Shared to Shared Direct
C. Switch the GPU mode to graphics mode using gpumodeswitch command.
D. change the Graphics mode of the host from Shared Direct to Shared.
E. Switch the GPU mode to compute mode using gpumodeswitch command.

Answer: C
Explanation:
gpumodeswitch is a command-line tool that is used to switch supported NVIDIA GPUs between compute and graphics mode. Compute mode allows multiple VMs to share a GPU for CUDA workloads. Graphics mode allows a single VM to use a GPU for graphics workloads.

QUESTION 5
An administrator supports a user group that spans across 10 Nutanix clusters for a medium-sized medical communications firm. The 10 Nutanix clusters are managed by a single Prism Central instance.
This group's virtual desktops are all cloned from a common gold image and all applications are

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published from a Citrix Virtual Apps farm. The administrator needs to keep the gold image in sync across all of the clusters.
What is the best way to achieve this?

A. use the native replication facility within the Machine Catalog
B. Setup a Protection Domain with the gold image as 3 protected entity.
C. Upload the gold image to Prism Central Image Service.
D. use Move to maintain all gold images across the clusters.

Answer: C
Explanation:
Prism Central Image Service allows you to upload and manage images through Prism Central by using the v3 API. You can also choose where your images will be available across different clusters.

QUESTION 6
An administrator has been evaluating a performance issue with the current Citrix VD' solution on Nutanix. During the evaluation, the administrator finds out there is a feature that is enabled called Shadow Clones.
What would happen if an administrator disabled Shadow Clones within a company's VDI environment?

A. Deployment times would increase as the number deployed desktops increase,
B. Deployment times would decrease when deploying additional desktops.
C. Boot storms would be eliminated due to desktop resource contention.
D. Boot storms would be eliminated because the number of desktops would be throttled.

Answer: A
Explanation:
Nutanix's Shadow Clones feature is used to create linked clones or snapshots of base VMs, which can improve VM provisioning time and storage efficiency by reducing the amount of duplicated data. If an administrator disables Shadow Clones within a company's VDI environment, it is likely that deployment times would increase as the number of deployed desktops increases. This is because linked clones or snapshots would no longer be used, so each new desktop deployment would require creating a full copy of the base VM.
Nutanix Shadow Clones allow for distributed caching of a particular disk or VM data, which are in a `multi-reader' scenario. This can help in scenarios such as VDI or private clone boot storms, where VMs on multiple nodes read from the same set of base disks.

QUESTION 7
In a VMware Horizon environment running on Nutanix, an administrator has noticed that create, start, shut down, and delete operations are taking longer than expected, the environment is currently configured with one vCenter instance and has 10,000 virtual desktops. What is the recommended number of vCenter instances in this configuration?

A. 1
B. 2
C. 5
D. 10

Answer: B
Explanation:

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vCenter can execute approximately 640 concurrent operations before incoming requests are queued, and can support up to 2,000 concurrent sessions. VMware Horizon 8 can support up to 120,000 active sessions in a Cloud Pod Architecture pod federation. Therefore, if the environment has 10,000 virtual desktops, one vCenter instance might not be enough to handle all the operations and sessions efficiently. The recommended number of vCenter instances in this configuration is B (2).

QUESTION 8
An administrator has finished setting up a Frame environment and has to finish preparing the Sandbox image. During the publishing andtesting phase, the administrator notices issue with the Sysprep process.
Which tool can the administrator use to prepare the Sysprep of the sandbox with error parsing?

A.   Frame Sysprep Helper Tool
B.   Windows Sysprep Built in tool
C.   Frame Guest Agent 7
D.   Frame Guest Agent 8

Answer: A
Explanation:
Sysprep is a Microsoft tool that prepares a Windows installation for cloning, auditing, and customer delivery. The Frame Sysprep Helper Tool is designed to simplify the Microsoft Sysprep process by parsing errors reported by sysprep and immediately repairing them when possible. Therefore, the tool that the administrator can use to prepare the Sysprep of the sandbox with error parsing is A (Frame Sysprep Helper Tool).

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