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Citrix Virtual Apps and Desktops 7 Assessment, Design and Advanced Configurations

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QUESTION 1

Scenario: A Citrix Architect is designing a new Citrix Virtual Apps and Desktops environment. The customer previously installed all applications locally on managed laptops and desktops, but is willing to evaluate other application delivery methods as part of the new deployment. The environment will be standardized on Windows 10 for the Virtual Delivery Agent (VDA) machines.

As part of an application analysis performed earlier in the project, the information in the exhibit was collected regarding 1 of the required applications.

Click the Exhibit button to view the information.

Category	Detail
Application Name	Visual Studio
Description	The application is used to develop computer programs, websites, web apps, web services, and mobile apps.
Usage	The application will be used by developers working in the organization.
OS Compatibility	The application is compatible with the target operating systems.
Special Considerations	The users are internal and external contractors, third-party collaborators, and other provisional team members who do NOT require offline access to the application.
	The application contains a number of Windows services.

The customer's security policies mandate that all development software must run within the corporate data center, but should appear to the user as if it is running locally on the virtual machine (VM).

How should the architect recommend deploying the application?

- A. Use Desktop OS machines to deliver VM hosted applications.
- B. Install it directly on the endpoint devices, and include it in a virtual desktop session using the Local App Access feature.
- C. Install it in an Application Layer using Citrix App Layering, then present it to users as an Elastic Layer during a virtual a virtual desktop session.
- D. Stream it to a VDA machine using Microsoft App-V, and access it through a virtual desktop session.
- E. Push it to users with a Workspace Environment Management (WEM) action option.

Correct Answer: D

QUESTION 2

Scenario: A Citrix Architect is designing a new Citrix Virtual Apps and Desktops environment for a marketing and design company. One department uses several 3D applications based on OpenGL. These applications run as hosted applications within a single virtual machine (VM) running on a single Citrix Hypervisor host. The host is configured with 2 physical GPUs running NVIDIA GRID technology.

Which HDX 3D Pro method should the architect use for these 3D applications?

- A. Software-virtualized GPU
- B. Pass-through GPU
- C. Hardware-virtualized GPU
- D. CUDA-virtualized GPU

Correct Answer: B

Reference: <https://docs.citrix.com/en-us/citrix-virtual-apps-desktops/graphics/hdx-3d-pro.html>

QUESTION 3

Scenario: A Citrix Architect is designing a new Citrix Virtual Apps and Desktops environment. Currently, the environment is configured with 2 locations with identical Citrix Virtual Desktops Sites. Each Site has 2

Delivery Controllers, 2 StoreFront servers, and 1 Citrix ADC high-availability pair. The same applications have been published from both Sites for all users. Two zones (Zone A and Zone B) are configured in each Site with 1 Delivery Controller in each zone. The Microsoft Exchange server is only accessible from Virtual Delivery Agent (VDA) machines in Zone A in each Site.

Six access requirements have been identified:

Users should have a single URL when accessing resources from different Sites.

Users should always connect to the data center closest to their location.

Applications added to Favorites within the Citrix Workspace app should be retained when accessed from different Sites.

Launched applications and desktops should always connect through a local Citrix ADC.

No duplication of applications published from different Sites.

Microsoft Outlook should always launch in Zone A.

What should the architect recommend to ensure that Microsoft Outlook always launches from Zone A for every user?

- A. Configure zone preference based on user location.
- B. Configure Zone A as the application Home Zone for Microsoft Outlook.
- C. Move a Delivery Controller from Zone B to Zone A.
- D. Designate Zone A as the Home Zone for all users.

Correct Answer: B

QUESTION 4

Scenario: A Citrix Architect is designing a new Citrix Virtual Apps and Desktops Service environment in Citrix Cloud. The customer previously installed all applications locally on managed laptops and desktops, but is willing to evaluate other application delivery methods as part of the new deployment. The environment will be standardized on Windows 10 and Windows Server 2016 for the Virtual Delivery Agent (VDA) machines.

As part of an application analysis performed earlier in the project, the information in the exhibit was collected regarding 1 of the required applications. Click the Exhibit button to view the information.

Category	Detail
Application Name	Workday
Description	Workday is an on-demand (web-based) financial management and human capital management application.
Usage	The application will be used by most employees in the organization.
OS Compatibility	The application is compatible with the target operating systems.
Special Considerations	Users must be subscribed to the application. To manage security, the application must be hosted and managed by another vendor and provided to the end user.

The customer has the additional objective of minimizing authentication cycles for users with no configuration efforts on user machines.

How should the architect publish the application?

- A. Through the Citrix Gateway Service as a Web/SaaS application
- B. Through Citrix Gateway as a Web/SaaS application
- C. As a streamed application using Microsoft App-V
- D. From Citrix Virtual Apps and Desktops Service

Correct Answer: D

QUESTION 5

Scenario: A Citrix Architect needs to manage the disaster recovery (DR) process for a Citrix Virtual Apps and Desktops environment. The environment currently consists of an active data center typically accessed by users, and a DR data center used in the event that a disaster impacts the primary data center. Each data center hosts a separate Citrix Virtual Apps and Desktops Site. The overall environment has been designed to actively replicate user data and application data from the primary data center to the DR data center using Microsoft Distributed File System Replication (DFS-R). Management has made it a priority to minimize the loss of data when failing over between data centers.

The primary data center suffers an outage that affects multiple components. As a result, management decides to fail over to the DR data center. The architect has blocked access to the primary data center to prevent new attempts to connect to its Citrix Virtual Apps and Desktops Site.

Which two actions must the architect perform to meet company priorities before enabling access to the DR data center? (Choose two.)

- A. Drain existing sessions from the primary data center.
- B. Complete data replication from the primary data center to the DR data center.
- C. Replicate the Site\\s SQL database backups to the DR data center.
- D. Evaluate the condition of the Citrix Virtual Apps and Desktops environment in the primary data center.
- E. Transport backup data repositories to the DR data center.

Correct Answer: AB

QUESTION 6

Scenario: A Citrix Architect is designing a pod-based architecture in a Citrix Virtual Apps and Desktops environment. The plan is to create three pods for different Resource Layer types:

-

Windows 10 VDI (non-persistent)

-

Windows Server 2016 hosted shared desktops (non-persistent)

-

Windows 10 VDI (persistent)

Which three components can be shared between the three pods? (Choose three.)

- A. Citrix Delivery Controller
- B. Citrix StoreFront
- C. Citrix License Server
- D. Citrix Director
- E. Citrix Site Database

Correct Answer: BCD

QUESTION 7

Scenario: An automobile manufacturer in Germany has deployed a Citrix Virtual Apps and Desktops solution for its employees using Citrix Cloud and uses a resource location in Germany. Recently, they acquired an automobile manufacturer in Japan. Since then, users from Japan have reported issues regarding slowness and degraded performance of the application hosted in the German resource location.

How can a Citrix Architect improve the performance of the application for users in Japan?

- A. Implement Optimal Gateway Routing within the existing resource location.
- B. Create a new Site for Japan within Germany's resource location
- C. Provision new resources in Japan's resource location
- D. Implement Global Server Load Balancing (GSLB)

Correct Answer: D

QUESTION 8

Scenario: A customer who installed all applications locally on managed laptops and desktops is willing to evaluate other application delivery methods as part of a new design created by a Citrix Architect. The environment will be standardized on Windows 10 and Windows Server 2016 for the Virtual Delivery Agent (VDA) machines.

As part of an application analysis performed earlier in the project, the information shown in the exhibit was collected regarding 1 of the required applications.

Click the Exhibit button to view the information.

Category	Detail
Application Name	Workspace Inventory 3.0
Description	The inventory tracker and management software will be used by most users to perform data entry tasks. Managers will use the application to view data and create reports.
Usage	The application will be used by most employees in the organization.
OS Compatibility	The application is compatible with the target operating systems.
Special Considerations	None

Additionally, the customer has 3 objectives:

Minimize the amount of additional infrastructure components. Utilize thin clients as endpoints in order to reduce costs. Prohibit direct user access to the thin client operating system.

How should the architect install the application?

- A. Install it directly on a VDA machine image and access it through 2 virtual desktop session.
- B. Install it directly on endpoint devices, and include it in a virtual desktop session using the Local App Access feature.
- C. Stream it to a VDA machine using Microsoft App-V and access it through a virtual desktop session.
- D. Install it on an Application Layer using Citrix App Layering, then present it to assigned users as an Elastic Layer during a virtual desktop.
- E. Install it on an Application Layer using Citrix App Layering and include it in a layered image, and access it through a virtual desktop session.

Correct Answer: D

QUESTION 9

Scenario: A Citrix Architect deployed a new Citrix Virtual Desktops environment in Citrix Cloud. The environment is accessed exclusively by users in a location where Citrix Cloud does NOT have a local point of presence (POP). The Corporate Security team advises that a new industry regulation requires that all user HDX-session communications remain within the country.

In addition, users have requested file-type-association functionality to launch published applications from within their virtual desktops.

What should the architect configure for this deployment?

- A. On-premises Citrix Gateway with on-premises StoreFront
- B. Citrix Cloud-hosted Gateway Service with Citrix Cloud-hosted Workspace
- C. On-premises Citrix Gateway with Citrix Cloud-hosted Workspace
- D. Citrix Cloud-hosted Gateway Service with on-premises StoreFront

Correct Answer: C

QUESTION 10

Scenario: IT management has decided which server hardware model to use for its new Citrix Virtual Apps and Desktops Sites, but needs guidance on sizing the Hardware Layer.

Click the Exhibit button to view the host details.

Host Model	UCS B200 M4
Sockets	2
Cores per Socket	8
RAM	320 GB
Hyper-threading	Enabled
Storage	SAN

A Citrix Architect is planning to install Citrix Hypervisor 7.x on this host.

How many vCPUs will be available to the Citrix Hypervisor host?

- A. 48
- B. 32

C. 16

D. 24

Correct Answer: C

Reference: <https://www.citrix.com/blogs/2014/03/11/citrix-xenserver-setting-more-than-one-vcpu-per-vmto-improve-application-performance-and-server-consolidation-e-g-for-cad3-d-graphical-applications/>

QUESTION 11

Scenario: A planning document for deploying a new Citrix Virtual Apps and Desktops Site specifies that it will be created with 1 Site and different zones in each of 3 regions. The IT team expects that each zone will host 825 concurrent user sessions, with no more than 28 concurrent session launches.

What is the minimum acceptable Site-to-Site bandwidth required between the Primary Zone and a Satellite Zone?

A. 1 Kbps

B. 200 Mbps

C. 2 Mbps

D. 8 Gbps

Correct Answer: C

Reference: <https://docs.citrix.com/en-us/advanced-concepts/implementation-guides/citrix-virtual-appsdesktops-zones-deep-dive.html>

QUESTION 12

Scenario: A Citrix Architect is designing a new Citrix Virtual Apps and Desktops environment. The customer previously installed all applications locally on managed laptops and desktops but is willing to evaluate other application delivery methods as part of the new deployment. The environment will be standardized on Windows 10 and Windows Server 2016 for the Virtual Delivery Agent (VDA) machines.

As part of an application analysis performed earlier in the project, the information in the exhibit was collected regarding 1 of the required applications.

Click the Exhibit button to view the information.

Category	Detail
Application Name	Workspace Lidar Analyzer
Description	The application processes and generates reports using large amounts of imaging data collected from a Lidar scanner attached to the user endpoint.
Usage	The application is used by 5 technicians in the Research and Development (R&D) department.
OS Compatibility	The application is compatible with the target operating systems.
Special Considerations	Technicians must frequently reference this application's data when making log entries in a different application that, for security reasons, is only available through a virtual desktop session. Technicians must occasionally conduct outdoor field experiments with the Lidar scanner, and must connect to the environment using a wireless mobile connection.

The customer has the additional objective of minimizing the amount of network traffic in the environment, particularly on WAN or metered links.

How should the architect deploy the application?

- A. Stream it to a VDA machine using Microsoft App-V, and access it through a virtual desktop session
- B. Install it directly on a VDA machine image, and access it through a virtual desktop session
- C. Install it directly on a Server OS VDA machine, and access it from the endpoint as a published application
- D. Install it directly on endpoint devices, and include it in a virtual desktop session using the Local App Access feature
- E. Install it in the Application Layer using Citrix App Layering

Correct Answer: B

QUESTION 13

Scenario: A Citrix Architect is designing a new 2,000-user Citrix Virtual Apps and Desktops environment.

The environment will use Windows Server 2016 for all Site infrastructure components (Delivery Controllers, StoreFront servers, and Citrix Director). Machine Creation Services (MCS) will be used to provision Virtual Delivery Agent (VDA) machines. The environment will include 2 primary use cases:

Windows Server 2016 VDA machines providing hosted applications

Windows 10 VDA machines providing random, non-persistent VDI

The IT team has NOT yet purchased the hardware that will be used for the environment, and will build the Hardware Layer components based on the architect's recommendations.

How should the architect design the Citrix Hypervisor resource pools based on Citrix leading practices?

- A. Windows Server 2016 VDA machines should be placed in 1 resource pool, Windows 10 machines should be placed

in a second resource pool, and the infrastructure servers should be placed in a third resource pool.

B. Windows Server 2016 machines should be placed in 1 resource pool, and all Windows 10 machines should be placed in a second resource pool.

C. The infrastructure servers and all VDA machines should be located in 1 resource pool.

D. The infrastructure servers should be placed in 1 resource pool, and the VDA machines should be placed in a second resource pool.

Correct Answer: D

QUESTION 14

Scenario: A Citrix Architect needs to implement Citrix Virtual Apps and Desktops. Based on the assessment and early stages of the design, the requirements in the exhibit have been identified.

Click the Exhibit button to view the requirements.

Requirement	Detail
Number of Users	5,000
Environment	Production
Redundancy	Highly available
Administrative Team	Highly skilled IT teams
Level of Performance	High
Image Management	Citrix Provisioning (PVS)/non-persistent Machine Creation Services (MCS)/persistent
Additional Considerations	Dedicated network infrastructure required

Which tier of storage should the architect consider implementing, based on the requirement?

A. DAS

B. Local

C. NAS

D. SAN

Correct Answer: D

QUESTION 15

What are three things a Citrix Architect should when using thin clones with Machine Creation Services (MCS)? (Choose three.)

- A. Storage and virtual machine (VM) migration may be more complex when compared to full clones.
- B. Provisioning speed is slower when compared to full clones.
- C. Storage fragmentation may occur over time.
- D. Storage space should be closely monitored.
- E. Higher storage space is required when compared to full clones.

Correct Answer: CDE

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