1Y0-402 Citrix XenApp and XenDesktop 7.15 Assessment, Design and Advanced Configurations

Exam Preparation Guide 2.4

April 01, 2019
Disclaimer

This exam preparation guide is designed to provide candidates with necessary information about the 1Y0-402 exam, including study resources and ways to interpret the exam objectives to better enable candidates to assess the types of questions that may be asked during the exam. Please be aware that the content of this guide in no way ensures a passing score on the certification exam.
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## Contributors & Marks
- Prep Guide Author: 25
- Subject Matter Experts (SMEs): 25
- Notice: 26
- Marks: 26
Exam Overview

Number of Items

The 1Y0-402 exam is a 70-question exam written in English. Some of the items on this exam will not be scored and thus will not affect your final result in any way. The unscored items are included in this exam solely for research purposes.

Passing Score

The passing score for this exam is 68%.

Time Limit

<table>
<thead>
<tr>
<th>Type of Candidate</th>
<th>Time Limits*</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Native English speakers</td>
<td>150 minutes</td>
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<tr>
<td>Non-native English speakers that take the exam in countries where English is a foreign language</td>
<td>150 minutes + 30 minutes (time extension)</td>
<td>Time extension granted automatically</td>
</tr>
<tr>
<td>Non-native English speakers that take the exam in countries where English is NOT a foreign language</td>
<td>150 minutes + 30 minutes (time extension)</td>
<td>Must request time extension from Citrix. Submit your request here: Time Extension Request</td>
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</table>

The time limit for this exam is 90 minutes. The total seat time is 150 + 35 minutes. The total seat time includes times allotted for the NDA and surveys.

Intended Audience

The 1Y0-402 exam is focused on those topics that are most important to those who assess and design complex environments based on Citrix XenApp and XenDesktop 7.15. Those who assess and design complex environments may hold various job titles such as:

- Citrix Architects
- Citrix Consultants

Registration and Administration

This exam is administered at Pearson VUE testing centers worldwide. To learn more about the rules and process of taking an exam, please visit http://training.citrix.com/exams.

Worldwide, visit the Pearson VUE website (http://www.pearsonvue.com/citrix) to locate a testing center in your area and register for an exam. You may also register in person at any Pearson VUE testing center. If you reside in the United States or Canada, you may also register by calling 1-800-931-4084.

Note: A $7 USD surcharge will be added to phone registrations.
Retake Policy

Candidates must wait 24 hours from their original appointment time before they can register to retake an exam. After a second attempt, and any attempt thereafter, the candidate must wait 14 calendar days to retake the exam.

Breach of this policy can result in sanctions up to and including a ban from taking Citrix exams and/or decertification.

For more information about our policies, including the Citrix Exam Retake Policy and the Candidate Conduct Policy, please visit http://training.citrix.com/exams
Preparing for the Exam

Recommended Knowledge and Skills

Candidates should have knowledge of the following prior to taking this exam:

- Network operating systems
  - Including security, implementation and administration
- Citrix methodology and best practices for analysis and design
- Core design principles
- Installing Citrix technologies associated with desktop virtualization
- Configuring Citrix technologies associated with desktop virtualization
- Administering a desktop virtualization environment
- Maintaining a desktop virtualization environment
- Backing up components of a desktop virtualization environment
- Updating a desktop virtualization environment
- Monitoring a desktop virtualization environment
- Creating reports for trend analysis in environments that include a Citrix desktop virtualization solution
- Troubleshooting environments that include a Citrix desktop virtualization solution

Recommended Product Experience

Citrix Virtualization technologies such as:
- XenApp 7.15
- XenDesktop 7.15
- XenServer 7.2
- App Layering
- Provisioning Services 7.15
- StoreFront 3.13
- Citrix ADC 12
- Citrix Profile Management
- Receiver

Third-party technologies such as:
- Microsoft Active Directory Services
- Microsoft Windows Server 2016
- Troubleshooting tools
- Microsoft SQL Server 2017
- Microsoft Active Directory Domain Services (ADDS)
- Microsoft Active Directory Certificate Authority (ADCA)
- Microsoft Internet Information Services (IIS)
- Microsoft Distributed File System (DFS)
- Dynamic Host Configuration Protocol (DHCP)
- Domain Name System (DNS)
Recommended Training

Citrix Education recommends that candidates have hands-on experience with Citrix XenApp and XenDesktop 7.15 prior to taking this exam. One of the best ways to do this is by taking a formal Citrix training course. The following course provides training on assessment, design and advanced configuration of a Citrix XenApp and XenDesktop 7.15 environment.

- **CXD-410: Virtual Apps and Desktops 7.1x Assessment, Design, and Advanced Configurations** (instructor-led training course or self-study)

As with all Citrix exams, it is recommended that candidates get hands-on experience by working directly with products covered on the exam.

Unauthorized Preparation Materials

Citrix Education monitors exam results to ensure that candidates are not using unauthorized materials to prepare for exams. If it is determined that a candidate used unauthorized materials to prepare for an exam, the candidate’s score will be invalidated and his or her certification will be revoked.

When looking for materials in addition to authorized Citrix training to prepare for certification, Citrix Education recommends that you visit [http://www.certguard.com](http://www.certguard.com) to ensure that a site is indeed legitimate. This site flags websites that are acting as brain dumps, which have unauthorized materials.
### Section Titles and Weights

<table>
<thead>
<tr>
<th>Section</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Design Methodology and Readiness Assessment</td>
<td>6%</td>
</tr>
<tr>
<td>User Layer and Connectivity</td>
<td>8%</td>
</tr>
<tr>
<td>Access Architecture and Store Design</td>
<td>8%</td>
</tr>
<tr>
<td>Access Layer Scalability, Redundancy, and Security</td>
<td>6%</td>
</tr>
<tr>
<td>Image Management Strategy and Design</td>
<td>11%</td>
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<tr>
<td>Application Delivery</td>
<td>3%</td>
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<tr>
<td>Personalization Design</td>
<td>8%</td>
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<tr>
<td>XenApp and XenDesktop Site and Administrative Design</td>
<td>10%</td>
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<tr>
<td>Physical Resource Design</td>
<td>16%</td>
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<tr>
<td>High Availability and Multi-Location Solutions</td>
<td>19%</td>
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<tr>
<td>Disaster Recovery Planning and Design</td>
<td>5%</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>100%</strong></td>
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The section weights included in this guide are intended to help you in understanding how much of the exam is devoted to the topics listed. In fact, the percentages directly map to the number of questions on the exam. For example, if an exam has 60 questions, and Section 1 is weighted at 50%, then 30 of the questions on the exam will relate to Section 1 (60*50% = 30).

Please be warned that section weights are NOT used to calculate your score. Scoring is far more complicated as exam questions may be given different weights based on their overall importance. Because some questions may have different point values assigned to them, section weights and exam scores do not always have a one-to-one correlation.

For more information on how scoring works in Citrix exams read the blog [The Scoring Secrets for Citrix Exams - Divulged](#).
Interpretation of Objectives

Candidates should refer to the objectives and examples listed in this guide in order to determine which topics will be on the exam, as well as examples of the topics that could be tested.

For example, if the objective reads, “Assess the printing infrastructure” and one of the examples reads, “Perform printer driver stress testing” candidates could expect to see:

- **A scenario describing a printing infrastructure:**
  - **Scenario:** A Citrix Architect is assessing the current printing infrastructure at CGE. As part of the assessment, the architect wants to perform printer driver stress testing.

- **A question that requires determining how to assess the printer drivers:**
  - How can the architect assess which printer drivers are in use in the current environment?

**Note:** The examples listed in the “Sections, Objectives, Examples and References” section of this guide do NOT encompass all potential topics that could be tested. The examples are only provided as guidance.

The objectives and examples for this exam were developed by Exam Project Managers and Subject Matter Experts (SMEs) based on identified tasks that relate to managing and supporting Citrix XenDesktop 7.15 solutions.

The number of questions written for each objective relates directly to the importance of that objective and is proportional to how frequently that task is performed.
### Sections, Objectives, Examples and References

- Citrix Product Documentation: [http://docs.citrix.com](http://docs.citrix.com)
- Citrix Support: [http://www.citrix.com/support](http://www.citrix.com/support)

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<tr>
<th>Objective Number</th>
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<tr>
<td>2.1</td>
<td>Determine the appropriate endpoint type and peripherals required for a given environment.</td>
<td>Endpoint selection&lt;br&gt;Endpoint ownership&lt;br&gt;Endpoint lifecycle&lt;br&gt;Endpoint management&lt;br&gt;Peripherals impact on workflows&lt;br&gt;Peripherals Scalability considerations</td>
<td>Citrix VDI Handbook and Best Practices XenApp and XenDesktop 7.15 LTSR&lt;br&gt;<a href="https://www.citrix.com/blogs/2014/02/03/peripheral-devices-in-xendesktop/">https://www.citrix.com/blogs/2014/02/03/peripheral-devices-in-xendesktop/</a></td>
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<td>2.2</td>
<td>Determine how to appropriately deploy Citrix Receiver based on a list of requirements.</td>
<td>Receiver version considerations&lt;br&gt;Receiver deployment options&lt;br&gt;Keeping Citrix Receiver up-to-date&lt;br&gt;Challenges with multiple versions of Receiver</td>
<td>Module 2 of CXD-410 Virtual Apps and Desktops 7.1x Assessment, Design, and Advanced Configurations&lt;br&gt;<a href="https://docs.citrix.com/en-us/receiver/windows/4-9/configure/config-xdesktop/config-auto-update.html">https://docs.citrix.com/en-us/receiver/windows/4-9/configure/config-xdesktop/config-auto-update.html</a></td>
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<tr>
<td>2.3</td>
<td>Determine the appropriate graphics protocol to implement in order to ensure network connectivity.</td>
<td>Network Connectivity and the user experience&lt;br&gt;Throughput and latency&lt;br&gt;User experience considerations (Graphics protocols)&lt;br&gt;User experience considerations (Transport protocols)&lt;br&gt;User experience considerations (Media content redirection)&lt;br&gt;User experience considerations (Session interruption management)&lt;br&gt;Using SD-WAN to optimize HDX connections</td>
<td>Module 2 of CXD-410 Virtual Apps and Desktops 7.1x Assessment, Design, and Advanced Configurations&lt;br&gt;Citrix VDI Handbook and Best Practices XenApp and XenDesktop 7.15 LTSR</td>
</tr>
<tr>
<td>3.1</td>
<td>Determine valid types of assessment data necessary to design an Access Matrix in the given environment.</td>
<td>Interpreting an access matrix&lt;br&gt;Creating an access matrix</td>
<td>Module 3 of CXD-410 Virtual Apps and Desktops 7.1x Assessment, Design, and Advanced Configurations</td>
</tr>
<tr>
<td>3.2</td>
<td>Determine the appropriate settings and configurations to make when designing an access deployment strategy for Citrix Gateway.</td>
<td>Citrix Gateway and StoreFront design&lt;br&gt;Citrix ADC - one-arm or two-arm considerations&lt;br&gt;Double-hop DMZ environments&lt;br&gt;Citrix Cloud Access Design considerations - Citrix Gateway&lt;br&gt;Citrix Cloud Access Design considerations – StoreFront</td>
<td>Module 3 of CXD-410 Virtual Apps and Desktops 7.1x Assessment, Design, and Advanced Configurations</td>
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<td>Objective Number</td>
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Section 4: Access Layer Scalability, Redundancy, and Security

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<th>Objective Number</th>
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<tr>
<th>Objective Number</th>
<th>Objective</th>
<th>Examples</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.2</td>
<td>Determine how to meet the security requirements for a given environment.</td>
<td>Authentication types - Windows and Passthrough Anonymous users security considerations, Non-domain joined StoreFront considerations, Review - Multi-factor (LDAP + RADIUS), Review - Smart Cards, Review - SAML &amp; Federation, Context-aware security - integrating with EPA scans, SmartAccess and SmartControl, Aligning authentication types to use cases and security requirements, Role of the STA, XML Trust, Securing network traffic between Citrix access components, Access layer security in Citrix Cloud</td>
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</table>

Section 5: Image Management Strategy and Design

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<tr>
<th>Objective Number</th>
<th>Objective</th>
<th>Examples</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.1</td>
<td>Determine which FlexCast model to assign for a given environment.</td>
<td>FlexCast model assignment strategy</td>
<td>Module 5 of CXD-410 Virtual Apps and Desktops 7.1x Assessment, Design, and Advanced Configurations</td>
</tr>
<tr>
<td>Objective Number</td>
<td>Objective</td>
<td>Examples</td>
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<td>5.2</td>
<td>Determine how to appropriately scale the infrastructure for VDAs in a given environment.</td>
<td>VDA scalability design based on workloads VDA scalability in the cloud Using scalability testing and monitoring on premises Using scalability testing and monitoring in the cloud</td>
<td>Module 5 of CXD-410 Virtual Apps and Desktops 7.1x Assessment, Design, and Advanced Configurations</td>
</tr>
<tr>
<td>5.4</td>
<td>Determine how to design the appropriate image provisioning strategy for a given environment.</td>
<td>PVS - Overall Benefits and Considerations PVS boot method design considerations PVS write cache design considerations PVS xDisk store design considerations PVS network design considerations Image management scalability - PVS MCS - Benefits and Considerations MCS storage location design considerations MCS cloning design considerations MCS read/write cache design considerations Image management scalability - MCS App Layering - Benefits and Considerations as an Image Management Solution App Layering - Key Design Considerations Image management scalability - App Layering Choosing proper image management technologies</td>
<td>Module 5 of CXD-410 Virtual Apps and Desktops 7.1x Assessment, Design, and Advanced Configurations <a href="https://www.citrix.com/blogs/2013/07/03/pvs-internals-2-how-to-properly-size-your-memory/">https://www.citrix.com/blogs/2013/07/03/pvs-internals-2-how-to-properly-size-your-memory/</a> Citrix VDI Handbook and Best Practices XenApp and XenDesktop 7.15 LTSR <a href="https://support.citrix.com/article/CTX218082">https://support.citrix.com/article/CTX218082</a></td>
</tr>
</tbody>
</table>
### Section 6: Application Delivery

**6.1** Determine the appropriate delivery options for Application deployment based on the analysis of the given environment.

- Installed apps
- Streamed apps - App-V
- Layered apps
- Elastic layered apps
- Hosted Windows apps
- Local apps
- Determining the optimal deployment method for an app.
- Using application analysis results to guide deployment decisions

**References**
- Citrix VDI Handbook and Best Practices XenApp and XenDesktop 7.15 LTSR

### Section 7: Personalization Design

**7.1** Determine the appropriate profile strategy to use in a given environment.

- Profile types
- Profile strategy
- Citrix Profile Management design considerations
- Scaling Citrix Profile Management
- Securing profiles

**7.2** Determine the appropriate policies to implement in a given environment.

- Policies - deployment method
- Personalization scalability - WEM
- Policies - Integration with AD
- Policies - permissions and functionality considerations
- Creating a baseline policy

**References**
- Citrix VDI Handbook and Best Practices XenApp and XenDesktop 7.15 LTSR

**7.3** Determine the appropriate printing policies to implement to achieve specified printing behaviors.

- Printing considerations - printing options
- Printing considerations - comparing options
- Interactive Discussion (Personalization design practice)
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<tr>
<th>Objective Number</th>
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<th>Examples</th>
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</table>
| 8.1              | Determine the appropriate delivery method to recommend when designing a Site for a given environment. | Citrix Cloud Site Design  
Hybrid environment architectural considerations  
How many Sites are required for a single datacenter environment?  
Pod Architecture introduction | Citrix VDI Handbook and Best Practices XenApp and XenDesktop 7.15 LTSR |
| 8.2              | Determine the appropriate implementation for catalogs and delivery groups based on a given scenario. | Implementing UAT into catalogs and Delivery Groups  
Catalogs and Delivery Groups - Power Management  
VDA Load Balancing  
Other session management features  
Managing Catalogs and Delivery Groups in the cloud | Module 8 of CXD-410 Virtual Apps and Desktops 7.1x Assessment, Design, and Advanced Configurations |
| 8.3              | Determine the appropriate management and administration design based on given requirements. | Citrix Director - design considerations  
Delegated administration strategy  
Management console location  
Citrix SmartTools  
Integration with third party tools  
https://manage-docs.citrix.com/hc/en-us/articles/212715743-About-Smart-Scale |
| 8.4              | Determine the appropriate site design and baseline specifications to ensure performance and stability in the given environment. | Site database scalability  
Database component scalability and HA  
Delivery Controller scalability  
Delivery Controller component HA  
License Server Scalability  
Licensing HA  
Cloud scalability considerations | Citrix VDI Handbook and Best Practices XenApp and XenDesktop 7.15 LTSR  
| 8.5              | Determine the Control Layer security requirements and features necessary to secure a given environment. | Secure Site internal communications - XML  
Secure Site internal communications - SQL  
Secure Site internal communications - Licensing  
Configuration Logging options in XenApp and XenDesktop  
Auditing options in XenApp and XenDesktop  
Session Recording design | Module 8 of CXD-410 Virtual Apps and Desktops 7.1x Assessment, Design, and Advanced Configurations  
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<th>Objective Number</th>
<th>Objective</th>
<th>Examples</th>
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<tbody>
<tr>
<td>9.2</td>
<td>Determine the appropriate resource pool strategy for a given environment.</td>
<td>Cluster Sizing Considerations&lt;br&gt;Separating workloads on dedicated clusters&lt;br&gt;Using different hypervisor types for infrastructure and VDAs&lt;br&gt;VM motion&lt;br&gt;HA considerations&lt;br&gt;Resource groups in the cloud</td>
<td>Module 9 of CXD-410 Virtual Apps and Desktops 7.1x Assessment, Design, and Advanced Configurations&lt;br&gt;<a href="https://docs.microsoft.com/en-us/azure/availability-zones/az-overview">https://docs.microsoft.com/en-us/azure/availability-zones/az-overview</a></td>
</tr>
<tr>
<td>9.3</td>
<td>Determine the appropriate hardware sizing based on a scenario.</td>
<td>Determining VMs per host&lt;br&gt;Determining hosts per cluster&lt;br&gt;XenServer scalability&lt;br&gt;Sizing with advanced graphics options&lt;br&gt;Sizing in Azure &amp; AWS</td>
<td><a href="https://support.citrix.com/article/CTX117960">https://support.citrix.com/article/CTX117960</a>&lt;br&gt;Citrix VDI Handbook and Best Practices XenApp and XenDesktop 7.15 LTSR</td>
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<tr>
<td>9.4</td>
<td>Determine the appropriate storage allocations to ensure optimization in a given environment.</td>
<td>Storage tier considerations&lt;br&gt;I/O characteristics based on workload&lt;br&gt;Storage architecture considerations&lt;br&gt;RAID &amp; Disk type considerations&lt;br&gt;Other storage optimizations&lt;br&gt;Storage sizing - LUNs&lt;br&gt;Storage sizing - Storage bandwidth&lt;br&gt;Storage cloud considerations</td>
<td>Module 9 of CXD-410 Virtual Apps and Desktops 7.1x Assessment, Design, and Advanced Configurations&lt;br&gt;Citrix VDI Handbook and Best Practices XenApp and XenDesktop 7.15 LTSR</td>
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<td>9.5</td>
<td>Determine the appropriate Datacenter configurations for network traffic in a given environment.</td>
<td>Networking considerations - teaming, bonding, and LACP Networking considerations - physical vs software defined network separation Port and firewalls Network HA Networking cloud considerations</td>
<td>Module 9 of CXD-410 Virtual Apps and Desktops 7.1x Assessment, Design, and Advanced Configurations <a href="https://support.citrix.com/article/CTX123489">https://support.citrix.com/article/CTX123489</a></td>
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**Section 10: High Availability and Multi-Location Solutions**

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<tr>
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</tbody>
</table>
| 10.3             | Determine the appropriate Image Management requirements in a given environment. | Provisioning Services architecture across sites  
Provisioning Services networking considerations across sites  
Provisioning Services vDisks and storage considerations  
Machine Creation Services architecture across sites  
Machine Creation Services multi-site storage considerations  
https://support.citrix.com/article/CTX220651  
| 10.4             | Determine the requirements for profiles and data in a multi-location environment. | Managing roaming profiles and Receiver configurations across devices  
Profile management multi-site replication considerations  
Folder redirections and other user data in a multi-location environment  
Application data considerations  
Cloud-based storage replication considerations | Module 10 of CXD-410 Virtual Apps and Desktops 7.1x Assessment, Design, and Advanced Configurations  
| 10.5             | Determine the appropriate strategy to support printing in a multi-location solution. | Multi Location printing considerations  
Print routing considerations across sites  
| 10.6             | Determine how to design a site and FMA zones to ensure users have continuous access to resources in a multi-location solution. | Zone considerations  
Zone scalability  
| 10.7             | Determine the considerations to make when designing an environment that consists of Active Directory or Microsoft Azure Active Directory. | Active Directory - multiple domains/forests  
Active Directory - authenticating with multiple domains/forests  
<table>
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<th>Objective Number</th>
<th>Objective</th>
<th>Examples</th>
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<tbody>
<tr>
<td>11.1</td>
<td>Determine the appropriate Disaster Recovery Strategy for a given environment.</td>
<td>Disaster recovery considerations - determining level required</td>
<td>Module 11 of <a href="https://www.citrix.com/blogs/2014/03/29/xendesktop-gslb-dr-everything-you-think-you-know-is-probably-wrong/">CXD-410 Virtual Apps and Desktops 7.1x Assessment, Design, and Advanced Configurations</a></td>
</tr>
<tr>
<td>11.2</td>
<td>Determine how to recover a primary datacenter in the disaster recovery datacenter given a scenario.</td>
<td>Citrix Standard of Business Continuity</td>
<td>Module 11 of <a href="https://www.citrix.com/blogs/2014/03/29/xendesktop-gslb-dr-everything-you-think-you-know-is-probably-wrong/">CXD-410 Virtual Apps and Desktops 7.1x Assessment, Design, and Advanced Configurations</a></td>
</tr>
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</table>
Appendix: Practice

Introduction

Exam-takers should refer to the objectives listed in the “Sections, Objectives, Examples and References” section of this guide in order to determine which topics will be on the exam and examples of topics for each objective.

For example, if the objective reads, "Identify the appropriate plug-in to use," exam-takers should expect to see:

- A "scenario describing the need to install a specific XenApp Plug-in"

  **Scenario:** XenDesktop was recently implemented in an environment. A Citrix Administrator in the environment needs to tell the end users which Citrix Receiver type to install in order to access their XenDesktop resources. The end users in the environment will need to access hosted applications through Receiver for Web.

- A question that requires you to "determine which Citrix Receiver type to install" based on the scenario

  *Which Citrix Receiver type should the administrator instruct the end users to install?*

The objectives for this exam were developed by Exam Project Managers and subject matter experts based on identified tasks that relate to assessing and designing complex environments based on Citrix XenApp and XenDesktop 7.15.
Appendix: Practice

Sample Question 1

Scenario: A Citrix Architect needs to design a new XenApp and XenDesktop 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 one of the required applications. Click the Exhibit button to view the information.

Additionally, the customer has the following objectives:

• Minimize the number of images that must be managed.
• Utilize zero clients as endpoints in order to reduce costs.

Which application delivery method should the architect use for the application?

A. The application should be streamed to a VDA machine using Microsoft App-V and accessed through a virtual desktop session.
B. The application should be installed on an Application Layer using Citrix App Layering, be included in a layered image, and accessed through a virtual desktop session.
C. The application should be installed on an Application Layer using Citrix App Layering then be presented to assigned users as an Elastic Layer during a virtual desktop session.
D. The application should be installed directly on a Server OS VDA machine and accessed from the endpoint as a published application.
E. The application should be installed directly on endpoint devices and included in a virtual desktop session using the Local App Access feature.

Answer: A

Objective: Determine the appropriate delivery options for Application deployment based on the analysis of the given environment.


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<th>Category</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Name</td>
<td>Workspace Office 2010</td>
</tr>
<tr>
<td>Description</td>
<td>A suite of productivity applications (word processing, spreadsheets, presentations, email, etc.).</td>
</tr>
<tr>
<td>Usage</td>
<td>This application suite is required by the accounting department.</td>
</tr>
<tr>
<td>OS Compatibility</td>
<td>The application is compatible with the target operating systems.</td>
</tr>
<tr>
<td>Special Considerations</td>
<td>The rest of the organization will be using Workspace Office 2016, but the accounting team uses specialized add-ins that are only compatible with the older version of the spreadsheet application in the suite. However, the accounting team would also like to use the newer email and word processing apps if possible.</td>
</tr>
</tbody>
</table>

Only one version of the Workspace Office software can be installed on a machine’s system at any time.
Appendix: Practice

Sample Question 2

Scenario: A Citrix Architect needs to design a new XenApp and XenDesktop environment.

The architect has identified the User Layer requirements, as shown in the Exhibit (the table to the right).

Additionally, management at the organization has identified the following general Access Layer requirements:

A multi-factor authentication method is required for any connections to the XenApp and XenDesktop environment originating from outside the corporate network.

The external connections must be authenticated by a Citrix Gateway virtual server located in a DMZ network.

The internal connection traffic should NOT leave the internal corporate network.

Which authentication method should the architect configure for Sales Associates connecting from a hotel room during a sales trip?

A. Federated Authentication Service and endpoint analysis
B. LDAP and RADIUS
C. Federated Authentication Service and SAML
D. LDAP and Smart Card

Answer: B

Sample Question 2 Cont.

Objective: Determine how to meet the security requirements for a given environment.

Source: CXD-410 Module 4, Citrix VDI Handbook and Best Practices XenApp and XenDesktop 7.15 LTSR

<table>
<thead>
<tr>
<th>User Group</th>
<th>User Devices</th>
<th>Connection Point</th>
<th>Security Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accountants</td>
<td>Corporate-owned desktops,</td>
<td>Internal and</td>
<td>Should NOT be permitted to access payroll and e-banking</td>
</tr>
<tr>
<td></td>
<td>laptops</td>
<td>External</td>
<td>apps outside the corporate network</td>
</tr>
<tr>
<td>Sales Associates</td>
<td>BYOD smartphones, tablets</td>
<td>Internal and</td>
<td>Have access to customer data and pricing information</td>
</tr>
<tr>
<td></td>
<td></td>
<td>External</td>
<td></td>
</tr>
<tr>
<td>Customers</td>
<td>Public kiosks</td>
<td>Internal</td>
<td>Should NOT have knowledge of Workspace Services credentials</td>
</tr>
<tr>
<td>Contractors</td>
<td>BYOD desktops, laptops</td>
<td>External</td>
<td>Should NOT have knowledge of Workspace Services credentials and must supply their own authentication provider</td>
</tr>
</tbody>
</table>
Sample Question 3

Scenario: A Citrix Architect needs to design a new XenApp and XenDesktop environment for a manufacturing company. During the project kickoff meeting, the organization states the following business priorities:

“All of our employees in our manufacturing plants and offices will be connected to the environment. We want to maintain control over our entire IT environment, but need to decrease the overall costs and management burden of supporting our existing use cases. Most of our employees use relatively simple applications, but a small team of engineers requires access to a graphic-intensive design and drafting application for their work.”

Which three design decisions will align with the stated business drivers? (Choose three.)

A. A multi-Site architecture and disaster recovery plan will be required.
B. Single image management solution should be included in the design.
C. Server OS Virtual Delivery Agent (VDA) machines should be used to increase user density per machine.
D. HDX 3D Pro should be incorporated into the design.
E. SmartAccess and SmartControl should be implemented for the environment.
F. Citrix XenServer should be used for graphic-intensive applications.

Answer: B, C, D

Objective: Determine the design decisions that should be made based on given business drivers.

Appendix: Practice

Sample Question 4

Scenario: A Citrix Architect is configuring a Citrix Profile Management solution for a customer. The customer has two file servers, each hosting the profile folders for three different user groups.

Review the Exhibit on the right for details about the configuration.

The customer wants to use: \Workspace\Profiles\#\# as the profile location.

The architect should configure _________ and _________ to achieve the desired result. (Choose the correct option to complete the sentence.)

A. DFS-Replication; user variables
B. DFS-Replication; Active Directory attributes
C. Load balancing; user variables
D. DFS namespace; user variables
E. DFS namespace; Active Directory attributes
F. Load balancing; Active Directory attributes

Answer: E

Objective: Determine the requirements for profiles and data in a multi-location environment.

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