Disclaimer

This exam preparation guide is designed to provide candidates with necessary information about the 1Y0-204 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.
Table of Contents

Exam Overview

- Number of Items
- Passing Score
- Time Limit
- Intended Audience
- Registration and Administration
- Retake Policies

Preparing for the Exam

- Recommended Knowledge and Skills
- Recommended Product Experience
- Recommended Training
- Unauthorized Preparation Materials
- Interpretation of Objectives
- Sections, Objectives, Topics, and References

Contributors & Marks

- Prep Guide Author
- Subject Matter Experts (SMEs)
- Notice
- Marks
Exam Overview

Number of Items

The 1Y0-204 exam is a 65-question exam written in English. The exam consists of multiple choice items only.

Passing Score

The passing score for this exam is 62%.

Time Limit

<table>
<thead>
<tr>
<th>Type of Candidate</th>
<th>Time Limits*</th>
<th>Notes</th>
</tr>
</thead>
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<tr>
<td>Native English speakers</td>
<td>90 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>90 minutes +30 minutes (time extension)</td>
<td>Time extension granted automatically</td>
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<td>Non-native English speakers that take the exam in countries where English is NOT a foreign language</td>
<td>90 minutes +30 minutes (time extension)</td>
<td>Must request time extension from Citrix. Submit your request here: <a href="#">Time Extension Request</a></td>
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</table>

The time limit for this exam is 90 minutes. The total seat time is 90 + 25 minutes. The total seat time includes times allotted for the NDA and surveys.

Intended Audience

The 1Y0-204 exam is intended for IT professionals who install, configure and manage Citrix Virtual Apps and Desktops 7 either on-premises or in the Citrix Cloud. Those who install, configure and manage such solutions may hold various job titles such as:

- Systems Administrators/Citrix Administrators
- Desktop Administrators
- Application Administrators

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](http://training.citrix.com/exams).

Worldwide, visit the Pearson VUE website ([http://www.pearsonvue.com/citrix](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 can only take this beta exam once. Retakes of beta exams are against Citrix exam policy.

Citrix Education monitors retake activity for breaches of this policy. Breach of this policy can result in sanctions up to and including a temporary ban from taking Citrix exams and/or decertification.

For more information on the Citrix Exam Retake Policy, please visit http://training.citrix.com/exams.
Preparing for the Exam

**Recommended Knowledge and Skills**

Specifically, candidates should have the following knowledge and skills prior to taking this exam:

- Intermediate knowledge of Microsoft Windows Server
  - Install and configure operating system options
  - Windows Server roles
  - Domain Name System
  - Dynamic Host Configuration Protocol
  - IIS

- Basic knowledge of Active Directory
  - User rights and permissions
  - Delegation of administrative rights
  - Active Directory Domain Services
  - Active Directory Certificate Services
  - Users/Groups
  - GPOs
  - OUs

- Basic administration skills, including:
  - Understanding of networking protocols such as TCP/IP
  - Understanding of communication protocols such as RDP
  - Understanding of firewall concepts
  - Understanding of e-mail administration and account creation
  - Understanding of Remote Desktop Services policies and profiles
  - Ability to create shares and give permission to shared folders/files
  - Ability to create and modify AD group policies
  - Understanding of VPN technologies
  - Understanding of roaming profiles and folder redirection

- Knowledge of database concepts
- Securing network communications
- Knowledge of virtualization concepts
  - Hypervisor management
  - Application virtualization and delivery
  - Virtual machine creation
  - Architecture of virtual machine attributes such as
    - Storage
    - VLANS
- Knowledge of user profiles
- Knowledge of Microsoft Folder Redirection
- Knowledge of storage concepts
- Knowledge of desktop operations
  - Installation, setup, configuration and maintenance of virtual delivery agent OS
    - Windows 10
    - Windows Server 2016
  - Managing client devices
    - Desktops
    - Laptops
    - Tablets
    - Smartphones
    - Thin clients
- High-level knowledge of Cloud concepts
  - Private clouds
  - Public clouds
  - Hybrid clouds
  - Cloud-based SaaS
Recommended Product Experience

We recommend that candidates have at least six months of experience with the following Citrix technologies:

- Citrix Virtual Apps and Desktops 7 or newer
- StoreFront
- Citrix Profile Management
- Citrix Workspace app
- Citrix Gateway 12 or newer

Recommended Training

Citrix Education recommends that candidates have hands-on experience with Citrix Virtual Apps and Desktops 7 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 administrator for Citrix Virtual Apps and Desktops 7.

- CWS-215: Citrix Virtual Apps and Desktops 7 Administration On-Premises and in Citrix Cloud (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 to ensure that a site is indeed legitimate. This site flags websites that are acting as brain dumps, which have unauthorized materials.
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 installing, configuring and managing Citrix Virtual Apps and Desktops 7.
### Sections, Objectives, Topics and References

<table>
<thead>
<tr>
<th>Objective Number</th>
<th>Objective</th>
<th>Topics</th>
<th>References</th>
</tr>
</thead>
</table>

### Section 1: Architecture Overview

### Section 2: Deploying the Site

<table>
<thead>
<tr>
<th>Objective Number</th>
<th>Objective</th>
<th>Topics</th>
<th>References</th>
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<tr>
<td>2.04</td>
<td>Determine how to configure a Site based on a list of requirements.</td>
<td>Site Database Types Site Databases Configuration</td>
<td>Module 2 of CWS-215 Citrix Virtual Apps and Desktops 7 Administration On-Premises and in Citrix Cloud <a href="https://support.citrix.com/article/CTX127359">https://support.citrix.com/article/CTX127359</a></td>
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**Section 3: The Apps and Desktops Images**

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<thead>
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<th>Objective Number</th>
<th>Objective</th>
<th>Topics</th>
<th>References</th>
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</table>
### Objective Number | Objective | Topics | References
--- | --- | --- | ---
<p>| 4.01 | <strong>Determine how to manage Machine Catalogs and Delivery Groups.</strong> | Add a Host Connection for the Resource Location The Machine Catalogs and Delivery Groups Relationship | Module 4 of <a href="https://docs.citrix.com/en-us/citrix-virtual-apps-desktops/install-configure/delivery-groups-create.html">CWS-215 Citrix Virtual Apps and Desktops 7 Administration On-Premises and in Citrix Cloud</a> |
| 4.02 | <strong>Determine how to deploy machines using Machine Creation Services.</strong> | MCS Process MCS I/O Optimization Create Machine Catalogs and Delivery Groups MCS and the Cloud Connector | Module 4 of <a href="https://support.citrix.com/article/CTX218082">CWS-215 Citrix Virtual Apps and Desktops 7 Administration On-Premises and in Citrix Cloud</a> |
| 4.03 | <strong>Determine the behavior of different types of machines provisioned using Machine Creation Services.</strong> | MCS Created Random/Non-Persistent Desktop - Reboot Effects MCS Created Static/Persistent Desktop - Reboot Effects | Module 4 of <a href="https://www.citrix.com/blogs/2016/10/12/xenapp-and-xendesktop-7-11-mcs-full-clone-support/">CWS-215 Citrix Virtual Apps and Desktops 7 Administration On-Premises and in Citrix Cloud</a> |</p>
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<th>Objective</th>
<th>Topics</th>
<th>References</th>
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| 4.04             | Determine where to configure the resource location for a given environment. | Traditional On-Premises Deployment  
Public Cloud Deployment  
Citrix Cloud with an On-Premises Resource Location  
Citrix Cloud with a Public Cloud Resource Location  
Citrix Cloud with both an On-Premises Resource Location and a Public Cloud Resource Location | Module 4 of [CWS-215 Citrix Virtual Apps and Desktops 7 Administration On-Premises and in Citrix Cloud](https://docs.citrix.com/en-us/citrix-virtual-apps-desktops-service/install-configure/resource-location.html)  
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| Section 5: Providing Access to App and Desktop Resources |
|                  |           |        |            |
| 5.01             | Determine how to implement a specified authentication method based on given requirements. | User Access to Resources  
Store Authentication Methods  
Store Authentication Service  
| 5.02             | Determine how to implement Workspace Experience User Authentication based on a scenario. | Username and Password Through Cloud Connectors  
<table>
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<th>Objective Number</th>
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<th>References</th>
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</table>
| 7.01             | Determine which application specific properties to use in Delivery Groups based on a scenario. | Application Properties  
Workspace App Application Delivery Categories | Module 7 of CWS-215 Citrix Virtual Apps and Desktops 7 Administration On-Premises and in Citrix Cloud  
| 7.02             | Determine how to optimize Server OS published applications for a given environment. | Delivery Group Properties - Application  
Prelaunch  
Delivery Group Properties - Application  
Lingering  
Session Sharing | Module 7 of CWS-215 Citrix Virtual Apps and Desktops 7 Administration On-Premises and in Citrix Cloud  
| 7.03             | Determine how to present applications to users based on a scenario. | Featured App Groups  
Shortcut integration  
Self-Service Mode | Module 7 of CWS-215 Citrix Virtual Apps and Desktops 7 Administration On-Premises and in Citrix Cloud  
<table>
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<tr>
<th>Objective Number</th>
<th>Objective</th>
<th>Topics</th>
<th>References</th>
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<tr>
<td>Section 8: Managing Printing for User Sessions</td>
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<td>Objective Number</td>
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</table>
| 9.01             | Determine how to configure Citrix Profile Management. | User Profile Migration
Citrix Profile Management - User Store
Profile Caching
Active Write Back
Profile Streaming Process
Profile Protection | Module 9 of CWS-215 Citrix Virtual Apps and Desktops 7 Administration On-Premises and in Citrix Cloud
https://docs.citrix.com/en-us/profile-management/5.html
| 10.01            | Determine how to delegate permissions to other administrators. | On-Premises Delegated Administration
On-Premises Administrator Roles
On-Premises Administrator Scope
how to Create an On-Premises Custom Administrator
Define Administrator Access Permissions for Citrix Cloud
How to Create a Citrix Cloud Delegated Administrator | Module 10 of CWS-215 Citrix Virtual Apps and Desktops 7 Administration On-Premises and in Citrix Cloud
<table>
<thead>
<tr>
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<th>Objective</th>
<th>Topics</th>
<th>References</th>
</tr>
</thead>
</table>
| 10.02            | Determine how to use PowerShell to query information in the Site.          | Use PowerShell with an On-Premises Deployment  
Use PowerShell with a Citrix Cloud Deployment                                                                                     | Module 10 of CWS-215 Citrix Virtual Apps and Desktops 7 Administration On-Premises and in Citrix Cloud  
| 10.03            | Determine the appropriate power management decisions for a given environment. | Schedule Restarts  
How to Power Manage a Server OS Machine                                                                                             | Module 10 of CWS-215 Citrix Virtual Apps and Desktops 7 Administration On-Premises and in Citrix Cloud  
|                  |                                                                          |                                                                                                                                          |                                                                           |
|                  |                                                                          | Section 11: Citrix Virtual Apps and Desktops Basic Security Considerations                                                            |                                                                           |
| 11.01            | Determine how to configure basic network security for Virtual Apps and Desktops components. | Certificates  
Public and Private CAs                                                                                                             | Module 11 of CWS-215 Citrix Virtual Apps and Desktops 7 Administration On-Premises and in Citrix Cloud  
| 11.02            | Determine how to enable XML Service Trust for certain authentication types. | How to Configure an XML Service Trust                                                                                                  | Module 11 of CWS-215 Citrix Virtual Apps and Desktops 7 Administration On-Premises and in Citrix Cloud  
https://support.citrix.com/article/CTX133982 |

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*Objective Number* refers to the section number in the study guide. *Objective* describes the goal or task associated with the objective. *Topics* list the specific areas of focus for the objective. *References* provide links to the study material or documentation that supports the objective.
<table>
<thead>
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<th>Objective Number</th>
<th>Objective</th>
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<th>References</th>
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<td>12.02</td>
<td>Determine how to analyze published apps in a given environment.</td>
<td>Application Health, Usage, Probing History</td>
<td>Module 12 of CWS-215 Citrix Virtual Apps and Desktops 7 Administration On-Premises and in Citrix Cloud</td>
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<td></td>
<td>App Monitoring Policies</td>
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## Section 12: Monitoring the Site
<table>
<thead>
<tr>
<th>Objective Number</th>
<th>Objective</th>
<th>Topics</th>
<th>References</th>
</tr>
</thead>
</table>
| 12.03            | Determine how to monitor machines that are running the Virtual Delivery Agent (VDA) based on a scenario. | VDA Machine Monitoring  
Monitor the Disk  
Historical Resource Utilization | Module 12 of CWS-215 Citrix Virtual Apps and Desktops 7 Administration On-Premises and in Citrix Cloud  
| 12.04            | Determine what to monitor within a Site to find the root cause of a common issue. | Average Logon Duration  
Site Infrastructure | Module 12 of CWS-215 Citrix Virtual Apps and Desktops 7 Administration On-Premises and in Citrix Cloud  
| 12.05            | Determine how to configure alerts and notifications based on a scenario.     | Alerts and Notifications  
Director Notifications  
SCOM Integration | Module 12 of CWS-215 Citrix Virtual Apps and Desktops 7 Administration On-Premises and in Citrix Cloud  
| 12.06            | Determine how to use Citrix ADM to optimize monitoring through Citrix Director. | Citrix ADM Setup Process  
Citrix ADM Benefits to Director Monitoring | Module 12 of CWS-215 Citrix Virtual Apps and Desktops 7 Administration On-Premises and in Citrix Cloud  
<table>
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<tr>
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<th>Objective</th>
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<th>References</th>
</tr>
</thead>
</table>
| 13.01            | Determine the proper tool to use to troubleshoot a given issue. | VDA Cleanup Utility  
HDX Monitor  
Citrix Health Assistant  
Citrix Scout  
Microsoft Common Tools  
Microsoft Sysinternals | Module 13 of CWS-215 Citrix Virtual Apps and Desktops 7 Administration On-Premises and in Citrix Cloud  
https://support.citrix.com/article/CTX207624  
https://docs.microsoft.com/en-us/sysinternals/downloads/handle  
https://docs.microsoft.com/en-us/sysinternals/downloads/procmom  
https://docs.microsoft.com/en-us/sysinternals/downloads/regmon |
| 13.02            | Identify ways to proactively support common tasks in an environment. | Verify backups of Key Citrix Components  
Backup Citrix Databases  
Test Your Connections  
Verify Registration and Session Availability  
Confirm Capacity  
Review Citrix Policies | Module 13 of CWS-215 Citrix Virtual Apps and Desktops 7 Administration On-Premises and in Citrix Cloud  
https://www.citrix.com/blogs/2014/03/25/director-dashboard-explained  
<table>
<thead>
<tr>
<th>Objective Number</th>
<th>Objective</th>
<th>Topics</th>
<th>References</th>
</tr>
</thead>
</table>
| 14.01            | Determine how to migrate policies and catalogs in a given environment. | PVS Catalogs  
| 14.02            | Determine how to deploy or maintain Citrix Cloud Connector. | Citrix Cloud Connector Installation  
CITRIX Cloud Connector Silent/Automated Installation  
Proxy and Firewall Considerations  
| 14.03            | Determine how to configure Virtual Apps and Desktops with an on-premises resource location. | VDA Registration  
<table>
<thead>
<tr>
<th>Objective Number</th>
<th>Objective</th>
<th>Topics</th>
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</tr>
</thead>
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<tr>
<td>14.04</td>
<td>Determine the migration process to use for a given scenario.</td>
<td>Move Citrix Virtual Apps and Desktops on-premises deployment to Citrix Cloud with an on-premises resource location</td>
<td>Module 14 of <a href="https://docs.citrix.com/en-us/citrix-cloud/citrix-cloud-labs/session-manager/on-premises-session-manager.html">CWS-215 Citrix Virtual Apps and Desktops 7 Administration On-Premises and in Citrix Cloud</a></td>
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</table>
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http://www.citrix.com

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