

# **Implementing Citrix Provisioning Server 5.0**

## **A06 Exam**

### **Preparation Guide**

#### **Citrix Education**

**2.0**

**24 August 2009**



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**Disclaimer**

This exam preparation guide is designed to allow you to assess the types of questions that may be asked during the Implementing Citrix Provisioning Server 5.0 (1Y0-A06) certification 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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# 1 The Exam

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**1.1 Purpose of Exam** The A06: Implementing Citrix Provisioning Server 5.0 exam certifies that successful candidates have the knowledge and skills necessary to install, configure, and administer Citrix Provisioning Server 5.0 in an enterprise environment.

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**1.2 Beta Testing** Once all the questions were developed for this exam, it was offered at no charge to individuals who expressed interest in obtaining the certification and also fit the audience classification for this exam.

Candidates who took the pre-release exam were asked to complete a survey. The exam and survey results were analyzed to determine which questions should be kept in the final version of the exam. Based on those results, the timing for the exam as well as the passing score was determined.

Once the analysis was completed and the passing score determined, candidates who obtained a passing score on the pre-release exam also obtained their certification.

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**1.3 Number of Questions** The A06 exam is a 51-question exam written in English.

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**1.4 Passing Score** The passing score for this exam is 64% and is based on the analysis of scores of candidates from the alpha exam.

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**1.5 Time Limit** Native English speakers have 75 minutes to complete the exam. Non-native English speakers who take the exam in English have 105 minutes to complete the exam.

Non-native English speakers must explicitly ask for the time extension when registering for the exam in English. Candidates should verify the specific process with the test provider they choose.

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**1.6 Registration and Administration** This exam is administered through Pearson VUE. For details on the rules and procedures associated with registering for and taking the exam, please visit

the Exams page at [www.CitrixEducation.com](http://www.CitrixEducation.com).

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### 1.7 Registering with Pearson VUE

In the United States and Canada call 1-800-931-4084. Worldwide, visit the Pearson VUE website ([www.vue.com](http://www.vue.com)) to locate a testing center in your area and register for a Citrix exam with Pearson VUE.

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### 1.8 Certification Tracks

The A06: Implementing Citrix Provisioning Server 5.0 exam is a requirement for the Citrix Certified Administrator (CCA) for Citrix Provisioning Server 5.

After receiving a CCA for Citrix Provisioning Server 5, candidates can continue to build on their certification by taking exams from other areas of interest. Further, the following certifications can be achieved by passing one additional exam as indicated below:

Certification Track	Required Exam(s)
CCA for Citrix XenServer 5 Platinum Edition	<ul style="list-style-type: none"><li>A09: Implementing Citrix XenServer Enterprise Edition 5.0</li></ul>
CCA for Citrix XenServer 4 Platinum Edition	<ul style="list-style-type: none"><li>A02: Citrix XenServer Enterprise Edition 4.1: Administration</li></ul> <p style="text-align: center;"><b>OR</b></p> <ul style="list-style-type: none"><li>A01: Citrix XenServer Enterprise Edition 4.0: Administration</li></ul>

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### 1.9 Citrix Exam Policies

If a candidate fails an exam on their first attempt, he or she must wait 24 hours from their original appointment time before they can register to retake the exam. If a candidate fails on a second attempt, and any attempt thereafter, he or she must wait 14 days after a failed attempt to retake the exam.

Pre-release exam, such as betas and alphas, may only be taken once.

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

For more information on Citrix Education retake policies, please visit [http://www.citrixtraining.com/content/index.cfm/cgroup\\_id:38](http://www.citrixtraining.com/content/index.cfm/cgroup_id:38). \*

For more information on Citrix Education conduct policies, please visit [http://www.citrixtraining.com/content/index.cfm/cgroup\\_id:48](http://www.citrixtraining.com/content/index.cfm/cgroup_id:48) \*

\* Links are subject to change.

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**1.10  
Commenting  
During Live  
Exam**

Citrix Education is committed to continuous monitoring of exams and updating them as needed. As a practice, Citrix Education regularly reviews and refreshes exams and exam questions even during the live administration of the exam. Comments made by candidates during exams are used as anecdotal feedback and are considered by the Citrix Exam Development team when making general decisions about the exam and specific exam questions. Comments are not considered when determining the final results for a specific exam; making comments during an exam will not impact a candidate's final pass/fail decision.

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## 2 The Intended Audience

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### 2.1 Intended Audience

The A06: Implementing Citrix Provisioning Server 5.0 exam is a rigorous examination of subjects that are critical to an administrator's role as defined by subject matter experts (SMEs) of Citrix Provisioning Server. This role includes, but is not limited to:

- Datacenter Systems Administrators/Engineers
- Network Administrators/Engineers
- Citrix Provisioning Server Administrators
- Citrix XenApp Administrators
- Citrix XenDesktop Administrators
- Citrix XenServer Administrators
- Help Desk Administrators
- Citrix Partners

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### 2.2 Defining the Role being Tested

The intended audience was determined by SMEs for the product through a Job Task Analysis (JTA) procedure. The SMEs defined the audience by discussing the job functions that require use of the Citrix Provisioning Server 5.0 product.

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## 3 Preparatory Recommendations for the Exam

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### 3.1 Introduction

It is recommended that candidates have the knowledge, skills, and abilities necessary to install, configure, and administer Citrix Provisioning Server 5.0 prior to taking this exam.

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### 3.2 Recommended Knowledge and Skills

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

- Basic networking knowledge
  - Basic administration skills
  - Knowledge of operating systems (Windows, Linux)
  - Knowledge of systems management
  - Knowledge of storage systems (SAN, NAS)
  - Basic Microsoft SQL Server administration knowledge
  - Basic understanding of XML and SOAP
  - Intermediate Microsoft Active Directory knowledge
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### 3.3 Recommended Product Experience

It is recommended that candidates have at least three (3) months of experience installing, configuring, and administering Citrix Provisioning Server 5.0.

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### 3.4 Recommended Course

For optimal performance on this exam, Citrix recommends that candidates attend or self-study the CPV-200-11 Implementing Citrix Provisioning Server 5.0 course.

Citrix also recommends that candidates obtain field experience, if possible.

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## 4 Exam Sections and Weights

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### 4.1 Introduction

The A06: Implementing Citrix Provisioning Server 5.0 exam is divided into five (5) sections. Each section of the exam is weighted as follows, totaling 100%.

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### 4.2 Section Titles and Weights

Section	Weight
Planning a Citrix Provisioning Server 5.0 Implementation	20%
Configuring the Initial Setup	27%
Managing Citrix Provisioning Server 5.0	25%
Maintaining Citrix Provisioning Server 5.0	16%
Troubleshooting Citrix Provisioning Server 5.0	12%
<b>Total</b>	<b>100%</b>

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### 4.3 How Section Weights Relate to Questions on the Exam

Section weights correlate directly to the number of questions on the exam. For example, if an exam has 60 questions, and section 1 is weighted as 50%, then 30 of the questions on the exam will relate to section 1 ( $60 * 50\% = 30$ ).

Section weights are NOT used to calculate a candidate's score. Section weights are meant to indicate the percentage of the exam that covers certain content. 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.

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## 5 Exam Objectives and Resources for the Exam

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### 5.1 Introduction

The questions for the exam were developed directly from the exam objectives. The exam objectives are used to test the knowledge, skills and abilities related to each section of the exam.

Some of the exam objectives will correspond, or map, to field or hands-on experience. Candidates are expected to have at least three (3) months of experience with Citrix Provisioning Server 5.0 to increase their likelihood of passing.

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### 5.2 Obtaining an Evaluation License of Citrix Provisioning Server 5.0

Candidates can get some hands on experience by obtaining an evaluation license for Citrix Provisioning Server 5.0. Individuals can obtain evaluation licenses by either contacting customer care or by attending or purchasing the CPV-200-1I Implementing Citrix Provisioning Server 5.0 course.

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### 5.3 Resources Used to Develop the Exam

The following resources were used to develop this exam:

Resource	How to Obtain
Citrix Authorized Courseware: CPV-200-1I Implementing Citrix Provisioning Server 5.0	This course is available at Citrix Authorized Learning Centers (CALCs) worldwide. To find the CALC nearest you, please visit: <a href="http://www.citrixtraining.com/courses/courses/index.cfm">http://www.citrixtraining.com/courses/courses/index.cfm</a> *
Technical Documentation: Citrix Provisioning Server 5.0 Administrator's Guide	The Citrix Provisioning Server 5.0 Administrator's Guide can be found here: <a href="http://support.citrix.com/article/CTX117916">http://support.citrix.com/article/CTX117916</a> *
Technical Documentation: Citrix Provisioning Server 5.0 Installation and Configuration Guide	The Citrix Provisioning Server 5.0 Installation and Configuration Guide can be found here: <a href="http://support.citrix.com/article/CTX117917">http://support.citrix.com/article/CTX117917</a> *

Knowledge base articles	All knowledge base articles related to Citrix Provisioning Server 5.0 can be found here: <a href="http://support.citrix.com/product/provsrv/psv5.0/">http://support.citrix.com/product/provsrv/psv5.0/</a> *
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In addition, the Citrix Provisioning Server 5.0 product was used for hands-on experience in developing items for the exam.

\* Links are subject to change.

#### 5.4 Exam Objectives

For each exam objective, the chart below lists the corresponding Citrix course and/or available technical publications.

For all sections, at least three (3) months of experience administering Citrix Provisioning Server 5.0 is recommended.

**Note:** Hands-on experience is considered technical or practical experience with the Citrix Provisioning Server 5.0 product in a lab or proof-of-concept (POC) environment.

Section	Objectives	Resources Used
Planning a Citrix Provisioning Server 5.0 Implementation	<ul style="list-style-type: none"> <li>Based on given requirements, determine how to set up network configurations according to best practice.</li> <li>Given a list of needs for a Provisioning Server 5.0 farm, determine which components are needed.</li> <li>Based on a scenario, determine which administrative roles are needed for a farm.</li> <li>Given requirements, determine the appropriate steps to set up the database and data store in a Provisioning Server 5.0 environment.</li> <li>Determine how to configure TFTP (read-write, read only) and specify a bootstrap file in a Provisioning Server 5.0 environment.</li> </ul>	CPV-200-1I Implementing Citrix Provisioning Server 5.0  Hands-on Experience

<p>Configuring the Initial Setup</p>	<ul style="list-style-type: none"> <li>• Identify which ports need to be open on a firewall for Provisioning Server 5.0.</li> <li>• Identify the appropriate methods to upgrade to Provisioning Server 5.0 based on a description of an environment.</li> <li>• Determine which configurations need to be made in the Configuration Wizard during a Provisioning Server 5.0 setup to meet requirements.</li> <li>• Identify how to create a vDisk, including determining whether to create fixed vs. dynamic.</li> <li>• Determine when to mount a vDisk.</li> <li>• Identify how to format and unmount a vDisk, including determining the appropriate file system.</li> <li>• Determine how to set up a Master Target Device according to best practices.</li> <li>• Determine how to create and configure sites and device collections based on stated needs.</li> <li>• Given a description of an environment, determine whether to set a vDisk to standard or private image mode.</li> <li>• Given a description of an environment, determine the appropriate boot options for a target device.</li> </ul>	<p>CPV-200-1I Implementing Citrix Provisioning Server 5.0</p> <p>Citrix Provisioning Server 5.0 Installation and Configuration Guide</p> <p>Citrix Provisioning Server 5.0 Administrator's Guide</p> <p>Hands-on Experience</p>
<p>Managing Citrix Provisioning Server 5.0</p>	<ul style="list-style-type: none"> <li>• Determine how to create additional target devices.</li> <li>• Given a need to check the status of a target device, determine how to check the target device status.</li> <li>• Determine how to add additional servers, including running the Configuration Wizard, adding to a vDisk pool, giving access to Microsoft SQL Server, and editing the bootstrap file.</li> </ul>	<p>CPV-200-1I Implementing Citrix Provisioning Server 5.0</p> <p>Citrix Provisioning Server 5.0 Administrator's Guide</p>

<p>Managing Citrix Provisioning Server 5.0 (Continued)</p>	<ul style="list-style-type: none"> <li>• Determine which Provisioning Server service(s) should be stopped and restarted based on scenario/requirements.</li> <li>• Determine which service permissions to use when configuring services.</li> <li>• Identify how to configure server settings or configure ports for servers based on environment needs.</li> <li>• Given a list of options, identify how to view vDisk properties using the Console.</li> <li>• Given a list of options, determine when to release a vDisk lock using the Console.</li> <li>• Based on a list of options, determine how and/or when to change vDisk properties.</li> <li>• Given a list of options, determine how to add or delete an existing vDisk using the Console.</li> </ul>	<p>CPV-200-1I Implementing Citrix Provisioning Server 5.0</p> <p>Citrix Provisioning Server 5.0 Installation and Configuration Guide</p> <p>Hands-on Experience</p>
<p>Maintaining Citrix Provisioning Server 5.0</p>	<ul style="list-style-type: none"> <li>• Determine how to set up high availability, including creating the service account and configuring the boot strap file.</li> <li>• Given an environment with Microsoft Active Directory, determine how to configure Active Directory to function with Provisioning Server 5.0.</li> <li>• Given a scenario, determine the update strategy for updating vDisks.</li> <li>• Determine how to edit a vDisk based on a scenario or requirements.</li> <li>• Based on a scenario, determine how to use the target device views in the Console.</li> </ul>	<p>CPV-200-1I Implementing Citrix Provisioning Server 5.0</p> <p>Citrix Provisioning Server 5.0 Administrator's Guide</p>
<p>Troubleshooting Citrix Provisioning Server 5.0 Troubleshooting</p>	<ul style="list-style-type: none"> <li>• Given a scenario, determine how to troubleshoot a licensing error, including timeouts and grace periods in the Citrix License Server.</li> </ul>	<p>CPV-200-1I Implementing Citrix Provisioning Server 5.0</p>

Troubleshooting Citrix Provisioning Server 5.0 (Continued)	<ul style="list-style-type: none"> <li>• Given a scenario, determine how to troubleshoot an error in the Console, including using the troubleshooting tool.</li> <li>• Identify where to locate logs while troubleshooting Provisioning Server 5.0 and how to use them</li> <li>• Given a scenario, determine how to troubleshoot a vDisk error.</li> <li>• Given an Active Directory issue within Provisioning Server 5.0, determine the cause of the issue or how to troubleshoot it.</li> </ul>	Hands-on Experience  Knowledge Base Articles
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**5.5 How Objectives Relate to Questions on the Exam**

Objectives summarize what the test is designed to measure. Objectives are developed by Exam Developers and SMEs based on identified tasks that relate to the job of administering Citrix Provisioning Server 5.0. The number of questions written for each objective relates directly to the importance of that task in doing the job and is proportional to how frequently the task is performed.

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## 6 Interactive Item Usage

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### 6.1 Introduction

The Implementing Citrix Provisioning Server 5.0 exam consists primarily of traditional multiple-choice items. This exam also includes non-traditional Drag and Drop items. These types of items allow for candidates to answer questions by interacting with the interface by dragging objects to predefined destinations.

While answers are stored for traditional multiple-choice items so that exam-takers may revisit the item and see their chosen answers, the same is not true of non-traditional interactive items. Once an answer is given for a non-traditional item, it is stored. However, if the exam-taker returns to the item, the answer will not be visible and they will be prompted to answer the item again. Specific features of non-traditional items will be discussed in this section.

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### 6.2 Description of Drag and Drop items

Drag and drop items instruct candidates to drag objects to pre-defined destinations. These types of items test a candidate's understanding of a process, order, or other regimented ordered concept.

In these items, predefined destinations are marked by rectangular objects called destination panels. Destination panels indicate where objects can be placed in the user interface. These panels contain instructions, such as "Place Here" or "Place First Here" (as shown in Figures 6.1 and 6.2) or similar text that alerts candidates that this is a panel onto which an object should be dragged. Objects which can be moved are marked by an action word or sentence.

As with the other non-traditional items, candidates must click "Done" within the task window when finished in order to record their answer(s) and move on to the next item.

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### 6.3 Specialized cursors in Drag and Drop items

While dragging these objects, candidates should pay careful attention to the cursor. Figures 6.4 and 6.5 depict the two cursors candidates will see while completing a Drag and Drop item in this exam.

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**Figure 6.4**  
**Prohibited**  
**cursor**  
**indicator**



In this figure, a candidate is attempting to drag an object to a destination panel and the prohibited symbol appears. The candidate will not be able to drop the source panel into the destination panel when the prohibited symbol is present. The candidate should reposition the source panel on the desired destination panel until he or she sees the insert symbol shown in Figure 6.5.

**Figure 6.5**  
**Insert cursor**  
**indicator**



In this figure, a candidate is attempting to drag an object to a destination panel and the insert symbol appears. The candidate will be able to drop the source panel into the desired destination panel when the insert symbol is present.

---

**6.6 Deselecting an option in a Drag and Drop Item**

If a candidate moves an object to the incorrect destination panel, the candidate can remove the item by dragging it out of the destination panel, towards the object's original location.

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## 7 Appendix: Practice

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**Question 1** **Scenario:** An administrator is planning a Provisioning Server 5.0 implementation but company policy prevents the administrator from altering the current DHCP configuration. However, the administrator wants to use the same server to host the PXE service.

How can the administrator configure the PXE service for Provisioning Server in this environment?

- A. Configure DHCP options 66 and 67
- B. Configure option 60 on the DHCP server
- C. Set up a proxy DHCP server using port 67
- D. Co-host the PXE service on the DHCP server by using port 4011

Answer: D

---

**Question 2** **Scenario:** An administrator is in the process of setting up a Provisioning Server environment that will consist of:

- 1 farm
- 5 sites
- 10 Provisioning servers
- 10 device collections
- 500 target devices

How many database(s) are needed to maintain this environment?

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

Answer: A

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**Question 3** **Scenario:** An administrator needs to create a new vDisk that will be used exclusively in private image mode. However, the administrator is unsure of how much disk space the vDisk will need over time.

Which step should the administrator take when creating the vDisk?

- A. Double the disk space size
- B. Set the Virtual Hard Drive format to dynamic
- C. Set the write cache type to be on the server disk
- D. Include the local hard drive as a boot device for the target device

Answer: B

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**Question 4** As a best practice, which type of file system should an administrator use to format the partition containing vDisks?

- A. Ext3
- B. VHD
- C. NTFS
- D. FAT32

Answer: C

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**Question 5** An administrator should set a vDisk to \_\_\_\_\_ when preparing to image it from a Master Target Device. (Choose the correct option to complete the sentence.)

- A. high availability
- B. private image mode
- C. standard image mode
- D. write cache on device's HD

Answer: B

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**Question 6** Which service should an administrator restart after making changes to the server properties?

- A. PXE
- B. TFTP
- C. SOAP
- D. Stream

Answer: D

---

**Question 7** Where can an administrator modify the amount of time taken for a target

device to pause between attempts to log in?

- A. Bootstrap file
- B. Management API
- C. Server properties
- D. Target device properties

Answer: C

---

**Question 8** Which step must an administrator first take before deleting a vDisk?

- A. Remove the vDisk from the store
- B. Unassign the vDisk from all target devices
- C. Lock the vDisk to ensure no target devices can access it
- D. Gracefully shut down all target devices accessing the vDisk

Answer: B

---

**Question 9** An administrator located at the headquarters of an organization needs to add an application to a standard image mode vDisk being shared by several target devices at a branch office location.

Which option should the administrator use to update the vDisk?

- A. An incremental update using the Autoupdate tool
- B. A vDisk version update using the Autoupdate tool
- C. An incremental update using a rolling update process
- D. A vDisk version update using a rolling update process

Answer: A

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**Question 10** An administrator must run the \_\_\_\_\_ and enable \_\_\_\_\_ to log the Stream Service in Provisioning Server. (Choose the two correct options to complete the sentence.)

- A. MCLI, logging
- B. MCLI, streaming
- C. STREAMCONSOLE.EXE, logging
- D. STREAMPROCESS.EXE, streaming

Answer: C

