

Citrix Presentation Server 4.0: Administration

256 Exam

Enablement Guide

Citrix Education

1.2

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Disclaimer—

This Exam Enablement Guide is designed to allow you to assess the types of questions that may be asked during the subject Citrix certification exam. Please be aware that the content of this guide in no way ensures a passing score on such certification exam.

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1 Purpose

This document provides a list of exam objectives for the Citrix Presentation Server 4.0: Administration exam (256) and a list of resources that will help prepare exam-takers for items associated with these objectives. Topics that are covered in the exam and instruction on how to obtain information about these topics are outlined in this document at a high-level. Exam-takers should read this document carefully before beginning preparation for the exam.

This exam certifies that successful candidates have the knowledge and skills necessary to install, administer, and support a Citrix Presentation Server 4.0, Enterprise Edition implementation.

2 The Exam

This guide pertains to the 256 exam. The 256 exam is a 73-question exam written in English. Native English speakers have 90 minutes to complete the exam. Non-native English speakers who take the exam in English have 120 minutes to complete the exam. The passing score for this exam is 67%.

This version of the exam is based on Citrix Presentation Server 4.0, Enterprise Edition. It includes new product nomenclature and additional features consistent with this version of the product.

The exam is administered through Prometric. For details on the rules and procedures associated with registering for and taking the exam, please visit the <http://www.citrix.com/site/SS/training/index.asp> web site.

3 The Intended Audience

The 256 exam is a rigorous examination of subjects that are critical to an administrator's role as defined by Citrix Systems' subject matter experts. This role includes but is not limited to:

- Administrators of servers running Presentation Server 4.0
- Administrators of Citrix Access Suite 4.0 implementations
- Systems Engineers
- Technical Consultants
- Trainers

4 Preparatory Recommendations for the Exam

It is recommended that the exam-taker have the knowledge, skills, and abilities necessary to install, administer, and support a Citrix Presentation Server 4.0, Enterprise Edition implementation prior to taking this exam,

4.1 Recommended Knowledge and Skills

It is recommended that exam-takers have the following knowledge and skills prior to taking this exam:

- Basic Microsoft Windows Server 2003 administration
- Basic network administration , including the ability to:
 - Log on/Log off
 - Navigate the system
 - Create users/change permissions
 - Configure operating system options
- Application installation in a multi-user environment
- Network management using SNMP
- Basic Citrix Presentation Server 4.0 administration

4.2 Recommended Experience

It is recommended that exam-takers have at least six months of experience:

- Installing, configuring, and administering Citrix Presentation Server 4.0
- Installing and managing Citrix Licensing
- Publishing applications and enabling access for users
- Configuring and maintaining printers in the environment
- Configuring farm and zone settings
- Creating and administering Citrix Presentation Server 4.0 policies

It is also recommended that exam-takers attend or self-study the Citrix course CTX-1256AI Citrix Presentation Server 4.0: Administration.

5 Exam Sections and Weights

5.1 Sections of the Exam

The Citrix Presentation Server 4.0: Administration exam (256) is divided into eleven (11) sections. Each section of the exam is weighted as follows, totaling 100%:

▪ Applied and Architectural Concepts for Presentation Server	7%
▪ Installing and Managing Citrix Presentation Server	10%
▪ Configuring Farm Settings	10%
▪ Configuring ICA Sessions	7%
▪ Configuring Policies	10%
▪ Publishing Applications and Content	8%
▪ Deploying Applications	8%
▪ Managing Loads in a Presentation Server Environment	7%
▪ Configuring Printing	14%
▪ Enabling Web Access to Published Applications and Content	10%
▪ Securing Access to Published Applications and Content	9%

6 Exam Objectives and Resources for the Exam

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

Some of the exam objectives will correspond, or map, to field experience. Exam-takers are expected to have at least six months of experience with Citrix implementations to increase their chances of passing this exam.

For optimal performance on this exam, Citrix recommends that exam-takers attend or self-study the CTX-1256AI Citrix Presentation Server 4.0: Administration course and obtain field experience.

6.1 Resources Used to Develop the Exam

The following are the resources that were used to develop this exam and how to obtain them:

Resource	How to Obtain
CTX-1256AI Citrix Presentation Server 4.0: Administration	This course is available at Citrix Authorized Learning Centers (CALCs) worldwide. To find the CALC nearest you please visit the https://secureportal.citrix.com/MyCitrix/listings/Calc.aspx website.
MetaFrame Presentation Server 4.0 Administrator's Guide	The administrator's guide is available on the CD for Citrix Presentation Server 4.0 for Windows. It is also available for download at http://support.citrix.com/docs/
Load Manager Administrator's Guide	These administrator's guides are available on the components CD for Citrix Presentation Server 4.0 for Windows. They are also available for download at http://support.citrix.com/docs/
Installation Manager Administrator's Guide	
Web Interface Administrator's Guide	
Client for 32-bit Windows Administrator's Guide	

6.2 Exam Objectives and Resources

The following chart lists the corresponding Citrix course and available technical publications for each section and related exam objective.

At least 6 months of experience administering a Citrix Presentation Server 4.0, Enterprise Edition implementation is recommended for all sections and related objectives.

Section/ Objectives	Citrix Course	Technical Publications
<p>I. Applied Architectural Concepts for Citrix Presentation Server</p> <ul style="list-style-type: none"> • Given a list of Citrix Presentation Server 4.0 components, identify the application of the component in an enterprise environment. • Given a component and at least four definitions, select a definition that matches the component without any error. • Given no more than five statements depicting communication flow, place the statements in order. 	<p>CTX-1256AI Citrix Presentation Server 4.0: Administration</p>	<p>MetaFrame Presentation Server 4.0 Administrator's Guide</p>
<p>II. Installing and Managing Citrix Presentation Server</p> <ul style="list-style-type: none"> • Given a scenario and a list of databases, select the database that would be most appropriate for the environment described in the scenario. • Given a list of installation options, specify which ones are applicable within a specific scenario. • Given a screen shot of the Installation Wizard or a list of options, identify options to install enterprise components such as Web Interface and Secure Gateway. 	<p>CTX-1256AI Citrix Presentation Server 4.0: Administration</p>	<p>MetaFrame Presentation Server 4.0 Administrator's Guide</p>

Section/ Objectives	Citrix Course	Technical Publications
<p>III. Configuring Farm Settings</p> <ul style="list-style-type: none"> • Given a list of privileges and/or a representation of the GUI for the management console, identify steps and/or options to manage administrator rights and access to the farm. • Given a scenario which includes customer requirements and information on a Presentation Server implementation, specify the appropriate election preferences that should be configured for a data collector • Given a screen shot of the management console, identify which areas of the GUI should be used to create a zone. • Given requirements for failover of Presentation Servers and/or a screen shot of the GUI for the Presentation Server Console, specify the configurations that will meet the requirements. • Given a list of filters and a desired outcome, identify which filter results in the desired outcome. • Given a scenario which requires specific server or farm level configurations and/or a screen shot from the Presentation Server Console, determine the appropriate settings. 	<p>CTX-1256AI Citrix Presentation Server 4.0: Administration</p>	<p>MetaFrame Presentation Server 4.0 Administrator's Guide</p>

Section/ Objectives	Citrix Course	Technical Publications
<p>IV. Configuring ICA Sessions</p> <ul style="list-style-type: none"> • Using various methods that include deployment from Microsoft Active Directory Services, a network share and/or manual installation, identify the steps that must be taken to install the client successfully. • Given a scenario for accessing published resources using the Program Neighborhood Agent, Program Neighborhood, or the Client for Web and a list of options, identify the options that need pre-configuration to enable access to the resources. • Given an installation scenario, identify when it is appropriate to enable the quick launch bar for clients. • Identify the required server side settings to enable session reliability. 	<p>CTX-1256AI Citrix Presentation Server 4.0: Administration</p>	<p>MetaFrame Presentation Server 4.0 Administrator's Guide</p> <p>Client for 32-bit Windows Administrator's Guide</p>
<p>V. Configuring Policies</p> <ul style="list-style-type: none"> • Given a scenario, requirements and a list of steps, select the correct order of the steps to configure Presentation Server policies. • Given a scenario that requires the application of a policy, determine the appropriate filter to use. • For a scenario, identify the appropriate steps to apply a policy with a filter for a domain user, connection, IP address, server, and/or client name. • Given a scenario depicting a Presentation Server implementation that contains multiple policies and a requirement for specific users to have an exception to the existing policies, make decisions for increasing or decreasing the priority of policies to ensure that exceptions are made. 		<p>MetaFrame Presentation Server 4.0 Administrator's Guide</p>

Section/ Objectives	Citrix Course	Technical Publications
<ul style="list-style-type: none"> Given a list of options, identify those that must be enabled to configure shadowing through a policy. 		
<p>VI. Publishing Applications and Content</p> <ul style="list-style-type: none"> Specify which settings must be enabled to meet specific requirements when publishing applications using the Application Publishing Wizard. Specify which settings from the Published Resource properties should be used to configure published resources. Identify the steps to assign published resources to Microsoft Active Directory Services users and groups. Specify which configurations should be made to meet requirements for organizing published resources. Identify the required steps to designate a server to host a published application. Based on stated considerations, identify the required steps to enable client-to-server redirection. Based on stated considerations, identify the required steps to enable server-to-client redirection. Select statements which describe implementations that are configured to allow content redirection for published content. For a scenario, identify whether it is appropriate to disable or hide a published resource based upon requirements. Based on requirements, identify how and/or where in the GUI an administrator can view user connectivity to published applications. Identify the requirements for allowing anonymous access to published resources. 	<p>CTX-1256AI Citrix Presentation Server 4.0: Administration</p>	<p>MetaFrame Presentation Server 4.0 Administrator's Guide</p>

Section/ Objectives	Citrix Course	Technical Publications
<p>VII. Deploying Applications</p> <ul style="list-style-type: none"> • Based on information in a deployment scenario, determine whether it is appropriate to roll back or delete a project from the Packager window. • From a list, identify the required steps for packaging a file, application or unattended installation. • From a list, identify the required steps for application deployment. • Based on given requirements for a Presentation Server implementation, determine which Installation Manager Property needs to be configured to meet the requirements. • From a list, identify statements that describe how packages can be added to the Installation Manager database using the Packager or the Presentation Server Console. • From a list, identify the required steps to create and install package groups. • From a list of steps, select the required steps to publish a package. 	<p>CTX-1256AI Citrix Presentation Server 4.0: Administration</p>	<p>Installation Manager Administrator's Guide</p>
<p>VIII. Managing Loads in a Presentation Server Environment</p> <ul style="list-style-type: none"> • Given a list of rules and a scenario, identify which rule type applies. • From a list of scenarios, determine those which would require the application of an advanced load evaluator. • From a list of steps, identify those which are required to create a custom load evaluator. • Given a scenario depicting failed login attempts and an excerpt from a Load Manager log, determine why the login event failed. 	<p>CTX-1256AI Citrix Presentation Server 4.0: Administration</p>	<p>Load Manager Administrator's Guide</p>

Section/ Objectives	Citrix Course	Technical Publications
<ul style="list-style-type: none"> • From a list of steps, select those that are required when assigning evaluators to applications. • Identify the DOS command to view server load values. 		
<p>IX. Configuring Printing</p> <ul style="list-style-type: none"> • Specify which policies should be enabled and/or which steps should be taken to assign users to printers in keeping with stated requirements. • Determine when it is appropriate to implement universal printing. • Specify the required steps for configuring Printer Driver Mapping • Identify appropriate considerations for managing printer bandwidth. • From a list, select the required steps for importing printer drivers. • Given a scenario and a list of options, determine which steps should be taken to configure client, network and local printers. 	CTX-1256AI Citrix Presentation Server 4.0: Administration	MetaFrame Presentation Server 4.0 Administrator's Guide
<p>X. Enabling Web Access to Published Applications and Content</p> <ul style="list-style-type: none"> • For an implementation of Web Interface, identify the required steps for enabling Microsoft Active Directory Services or UPN support. • Given requirements for securing a Web Interface implementation, identify the steps needed to configure address translation. • From a list, select the required steps to configure Workspace Control. • For an implementation that includes 	CTX-1256AI Citrix Presentation Server 4.0: Administration	Web Interface Administrator's Guide

Section/ Objectives	Citrix Course	Technical Publications
<p>one or multiple farms, identify the settings that should be enabled to configure Program Neighborhood Agent successfully for use with all farms.</p> <ul style="list-style-type: none"> • Identify the steps required to secure client-side proxy settings. • For an implementation of Web Interface that includes a demilitarized zone (DMZ), specify the required configurations. • From a list of options, select the required steps for managing passwords for Web Interface users. • Given specific requirements and a list of information on a Web Interface implementation, identify the appropriate steps to create a site for Presentation Server users, Program Neighborhood Agent users, or Conference Manager attendees. • Identify the process by which clients (including the JAVA client, RDP and WEB client) are deployed using Web Interface. • Identify the required steps to configure RDP clients for use with Web Interface. 		
<p>XI. Securing Access to Published Applications and Content</p> <ul style="list-style-type: none"> • Given a screen shot of the management console and a security scenario, identify which options should be selected to configure ICA encryption. • From a list, identify steps and options required to secure access to Presentation Server using SSL relay. • From a list, identify the required steps for installing a digital certificate. 	<p>CTX-1256AI Citrix Presentation Server 4.0: Administration</p>	

Section/ Objectives	Citrix Course	Technical Publications
<ul style="list-style-type: none"> From a list of settings, identify those that are needed to implement address translation for an implementation of Web Interface that includes Secure Gateway. 		

7 Appendix: Practice

1. **Scenario:** Your environment consists of remote and local users. All departments have user groups configured and have employees who work remotely and locally. To decrease the log on times for users, you have applied a policy DEFAULT CLIENT PRINTER-FIN HR SALES to create default printers for users in the Finance, Human Resource, and Sales departments. Another policy ALLOW ALL PRINTERS - EXEC is configured to allow executives to print sensitive documents to local printers in their office. A third policy, PRINTING BANDWIDTH- REMOTE, limits the bandwidth of printing from all remote users, including executives.

Which option shows the ranking needed to ensure that all exceptions are made as needed in the environment? (The rankings are shown from highest priority to lowest priority.)

- A. DEFAULT CLIENT PRINTER, ALLOW ALL PRINTERS, PRINTING BANDWIDTH
- B. PRINTING BANDWIDTH, DEFAULT CLIENT PRINTER, ALLOW ALL PRINTERS
- C. ALLOW ALL PRINTERS, DEFAULT CLIENT PRINTER, PRINTING BANDWIDTH
- D. PRINTING BANDWIDTH, ALLOW ALL PRINTERS, DEFAULT CLIENT PRINTER

Answer: D

2. How can an administrator designate an available server to host a published application? (Choose two.)

- A. By using the Application Publication Wizard
- B. By defining a policy for the application filtered by the server name
- C. By adding the server to the configured servers list for the published application
- D. By providing unique configurations for the command line and working directory of the application to the server

Answers: A and C

3. What must be enabled when configuring client-to-server content redirection?

- A. Printer Mapping
- B. Clipboard Mapping
- C. COM Port Mapping
- D. Client Drive Mapping

Answer: D

4. For which scenario is it appropriate to enable server-to-client content redirection?

- A. Users in a farm open emails with attachments that they must save to their desktops.
- B. Users in a farm need to open email attachments without running a virus scan each time.
- C. Users in a farm open emails with URLs that point to multimedia file types that they typically run from the local devices.
- D. Users in a farm are not permitted to open embedded email attachments using local applications.

Answer: C

5. Which file type(s) can an administrator install using Installation Manager?

- A. ADF and MSI
- B. ADF files only
- C. EXE and MSP
- D. Any file on a Presentation Server can be deployed through Installation Manager.

Answer: A

6. What is required for application deployment?

- A. The zone data collector
- B. The Access Suite Console
- C. A file server with a network share point
- D. A file server with Active Directory installed

Answer: C

7. In which environment would assigning the Advanced Load Evaluator be more appropriate than assigning the Default Load Evaluator?

- A. Any farm that contains fewer than 30 applications
- B. Any farm that contains two or more servers, but not more than fifty
- C. Any farm with applications that require Advanced IP Range evaluators
- D. Any farm with memory intensive applications installed on a server running Presentation Server

Answer: D

8. **Scenario:** An administrator must use a command line utility to determine the load levels of the published applications in the farm.

Which command line utility can be used to determine the load levels of published applications in the farm?

- A. QFARM /APP
- B. QFARM /LOAD
- C. QSERVER /APP
- D. QSERVER /LOAD

Answer: A

9. **Scenario:** A remote office in Iceland has a print server which has three print queues defined. The users from the Iceland office connect to a Presentation Server 4.0 farm in London but still wish to print to the three printers defined on their local print server back in Iceland. The administrator for the farm creates a policy and enables the **Printing > Session Printers** rule and adds three print queues from the Iceland based print server,

Which two configurations will result in **ONLY** users from the Iceland site having automatic connections to their local network printers when they connect to applications published from the London farm? (Choose two.)

- A. Select the *Use universal driver only* option.
- B. Enable the **Printing > Universal Driver** rule.
- C. Assign this policy with a server filter that selects all servers in the farm.
- D. Assign this policy with a user filter that applies to all users that are members of the Icelandic OU in the Active Directory.
- E. Assign this policy with a client IP range filter that selects all addresses of the internal IP subnet used within the Iceland office.

Answers: D and E

10. **Scenario:** Given the following network configuration:

- A company has a home office in New York and remote offices in Dallas and Los Angeles.
- There is a firewall that performs Network Address Translation between the New York and Dallas offices and one between the New York and Los Angeles offices.
- The server running Presentation Server is located at the home office.
- There is a server running Web Interface at each of the three locations.

When users connect to the Presentation Server from the Dallas office, they need to use IP address 192.168.1.140. When users connect from the Los Angeles office, they need to use IP address 192.168.5.40.

How can this be configured?

- A. Configure address translation in Web Interface
- B. Configure alternate addressing in Web Interface
- C. Configure alternate translation on the server running Presentation Server
- D. Configure address translation on the server running Presentation Server

Answer: A