

# 1Y0-231: Deploy and Manage Citrix ADC 13 with Citrix Gateway

Exam Preparation Guide 3.0

September 7, 2022

citrix

# Disclaimer

This exam preparation guide is designed to provide candidates with necessary information about the **1Y0-231** 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

Preparation

Contributors & Marks

## Exam Overview

<a href="#">Number of Items</a>	4
<a href="#">Passing Score</a>	4
<a href="#">Time Limit</a>	4
<a href="#">Intended Audience</a>	4
<a href="#">Registration and Administration</a>	4
<a href="#">Retake Policies</a>	5

## Preparing for the Exam

<a href="#">Recommended Knowledge and Skills</a>	6
<a href="#">Recommended Product Experience</a>	6
<a href="#">Recommended Training</a>	7
<a href="#">Unauthorized Preparation Materials</a>	7
<a href="#">Section Titles and Weights</a>	8
<a href="#">Interpretation of Objectives</a>	9
<a href="#">Sections, Objectives and References</a>	10
<a href="#">Appendix: Practice</a>	22

## Contributors & Marks

<a href="#">Prep Guide Author</a>	25
<a href="#">Subject Matter Experts (SMEs)</a>	25
<a href="#">Notice</a>	26
<a href="#">Marks</a>	26

# Exam Overview

[Exam Overview](#) | [Preparation](#) | [Contributors & Marks](#)

## Number of Items

The 1Y0-231 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

Type of Candidate	Time Limits*	Notes
Native English speakers	105 minutes	
Non-native English speakers that take the exam in countries where English is a foreign language	105 minutes +30 minutes (time extension)	Time extension granted automatically
Non-native English speakers that take the exam in countries where English is NOT a foreign language	105 minutes +30 minutes (time extension)	Must request time extension from Citrix. Submit your request here: <a href="#">Time Extension Request</a>

*The total time limit for this exam is 140 minutes. The total seat time is 105 + 35 minutes. The total seat time includes times allotted for the NDA and surveys.*

## Intended Audience

The 1Y0-231 exam was developed to measure the minimum knowledge and skills required to implement Citrix ADC 13 with Citrix Gateway solutions. Passing this exam means a candidate demonstrated the minimum requisite knowledge and skills required of Citrix App Delivery and Security professionals who can install, manage and support Citrix ADC 13 and Citrix Gateway in enterprise environments. The tasks tested in this exam will represent those skills, which are deemed most important, based on high criticality ratings, to perform the job of application delivery and security with Citrix ADC and Citrix Gateway.

### Primary Audience:

- Systems Engineers
- Systems Administrators
- Citrix Administrators
- Citrix Engineers
- Network Engineers
- Network 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 <https://training.citrix.com/learning/certification-policies>.

Worldwide, visit the Pearson VUE website (<http://home.pearsonvue.com/citrix>) to locate a testing center in your area and register for an exam OR to take exam from Home or Office (Online remote proctoring) . 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

Exam Overview

Preparation

Contributors & Marks

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 <https://training.citrix.com/learning/certification-policies>.



# Prepping for the Exam

Exam Overview

**Preparation**

Contributors & Marks

## Recommended Knowledge and Skills

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

- Basic Networking, including L1 – L7 and traffic flow
- Windows and Linux Server administration
- Experience with Citrix virtualization technologies, such as Citrix Virtual Apps and Desktops and StoreFront
- Basic knowledge of Microsoft SQL Server or enterprise database servers
- Experience with Active Directory and Group Policy
- Basic understanding of Microsoft Remote Desktop Services
- Basic understanding of VPN concepts, including SSL encryption and certificates
- Basic knowledge of RegEx (regular expressions)
- Basic knowledge of multi-factor authentication methods, including SAML, Okta and OAuth

## Recommended Product Experience

We recommend that candidates have about six months of experience with the following topics in a Citrix ADC 13 with Citrix Gateway solution:

- Getting Started with Citrix ADC
- Basic Networking
- Citrix ADC Platforms
- High Availability
- Load Balancing
- SSL Offload
- Securing the Citrix ADC
- Troubleshooting Citrix ADC
- Citrix Gateway
- AppExpert
- Authentication and Authorization
- Managing Client Connections
- Integration for Citrix Virtual Apps and Desktops Solutions
- Customizing Citrix Gateway

# Prepping for the Exam

Exam Overview

**Preparation**

Contributors & Marks

## Recommended Training

Citrix Education recommends that candidates have hands-on experience with Citrix ADC 13, 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 Citrix ADC 13 and Citrix Gateway solutions.

- [CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway](#)

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.

# Section Titles and Weights

Exam Overview

Preparation

Contributors & Marks

Section	Weight
Section 1: Getting Started	5%
Section 2: Basic Networking	8%
Section 3: Citrix ADC Platforms	5%
Section 4: High Availability	6%
Section 5: Load Balancing	8%
Section 6: SSL Offload	6%
Section 7: Securing the Citrix ADC	6%
Section 8: Troubleshooting	8%
Section 9: Citrix Gateway	5%
Section 10: AppExpert	6%
Section 11: Authentication and Authorization	14%
Section 12: Managing Client Connections	10%
Section 13: Integration for Citrix Virtual Apps and Desktops Solutions	8%
Section 14: Customizing Citrix Gateway	5%
<b>TOTAL</b>	<b>100%</b>

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 ( $60 \times 50\% = 30$ ).

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

Exam Overview

**Preparation**

Contributors & Marks

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 “Configure monitors” and one of the examples reads, “determine when to use which type of monitor,” exam-takers could expect to see:

- A question that requires determining which type of monitor to configure...
  - *Which type of monitor should a Citrix Administrator configure...*
- ...based on given requirement(s)
  - *...to validate that a specific text string is returned in a web server response?*

**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 related to installing, managing and/or supporting Citrix ADC 13 with Citrix Gateway in enterprise environments.

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 and References

- Citrix Product Documentation: <https://docs.citrix.com>
- Citrix Support: <https://www.citrix.com/support>
- Citrix Blogs: <https://www.citrix.com/blogs/>

Objective Number	Objective	References
<b>Section 1: Getting Started</b>		
1.01	Understand the Citrix ADC architecture and functionality.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway</a> (Modules 1 and 2) <a href="https://www.citrix.com/blogs/2012/03/08/connection-multiplexing-in-netscaler/">https://www.citrix.com/blogs/2012/03/08/connection-multiplexing-in-netscaler/</a> <a href="https://citrixexams.sharefile.com/d-se74869821ed64a81b36aa9cfd4c77a8b">https://citrixexams.sharefile.com/d-se74869821ed64a81b36aa9cfd4c77a8b</a>
1.02	Identify Citrix ADC hardware and its components.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway</a> (Modules 1 and 3) <a href="https://citrixexams.sharefile.com/d-s42085258a201495e915274fe588d5a8b">https://citrixexams.sharefile.com/d-s42085258a201495e915274fe588d5a8b</a> <a href="https://www.citrix.com/content/dam/citrix/en_us/documents/data-sheet/citrix-adc-data-sheet.pdf">https://www.citrix.com/content/dam/citrix/en_us/documents/data-sheet/citrix-adc-data-sheet.pdf</a>
1.03	Determine the deployment and licensing options for a given environment.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway</a> (Modules 1 and 2) <a href="https://www.citrix.com/blogs/2018/06/20/citrix-networking-a-licence-to-thrill/">https://www.citrix.com/blogs/2018/06/20/citrix-networking-a-licence-to-thrill/</a> <a href="https://citrixexams.sharefile.com/d-sc16fb3d2f025406cb8a2a1daa20f7c72">https://citrixexams.sharefile.com/d-sc16fb3d2f025406cb8a2a1daa20f7c72</a>
1.04	Determine how to setup and configure Citrix ADC.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway</a> (Module 2) <a href="https://citrix.sharefile.com/share/view/s4cc6f4f40d804ddeaca6892731cdac70">https://citrix.sharefile.com/share/view/s4cc6f4f40d804ddeaca6892731cdac70</a> <a href="https://citrix.sharefile.com/d-s567ade4a5f944251a74d4a152e012530">https://citrix.sharefile.com/d-s567ade4a5f944251a74d4a152e012530</a> <a href="https://support.citrix.com/article/CTX128894">https://support.citrix.com/article/CTX128894</a>

Objective Number	Objective	References
<b>Section 2: Basic Networking</b>		
2.01	Determine which networking topology to use with Citrix ADC based on given requirements.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 2)</a> <a href="https://citrixexams.sharefile.com/d-saeca91a5fbfd489893ad6181b4ae05">https://citrixexams.sharefile.com/d-saeca91a5fbfd489893ad6181b4ae05</a> <a href="https://citrixexams.sharefile.com/d-s7ad0f412fee9472ba362f32f88f6292c">https://citrixexams.sharefile.com/d-s7ad0f412fee9472ba362f32f88f6292c</a>
2.02	Determine which interfaces IP address types and VLANS to use during configuration of a given environment.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 2)</a> <a href="https://citrixexams.sharefile.com/d-s91016c76f2214bfd8c7d8a6bfa58cbef">https://citrixexams.sharefile.com/d-s91016c76f2214bfd8c7d8a6bfa58cbef</a> <a href="https://citrixexams.sharefile.com/d-s1efbb04561e345b799ab51d715abe7e0">https://citrixexams.sharefile.com/d-s1efbb04561e345b799ab51d715abe7e0</a>
2.03	Identify which Citrix ADC routing and traffic-handling mode should be used for a given environment	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 2)</a> <a href="https://citrixexams.sharefile.com/d-s3df869430208453ca9220f8aa1240686">https://citrixexams.sharefile.com/d-s3df869430208453ca9220f8aa1240686</a>
2.04	Determine how to configure Access Control Lists based on given requirements.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 2)</a> <a href="https://citrixexams.sharefile.com/d-sbe9ffd2b980d4b59b6975e8a1e6b9391">https://citrixexams.sharefile.com/d-sbe9ffd2b980d4b59b6975e8a1e6b9391</a> <a href="https://citrixexams.sharefile.com/d-s1f8c7e3e93264eafa400ac71c3a2132a">https://citrixexams.sharefile.com/d-s1f8c7e3e93264eafa400ac71c3a2132a</a>
<b>Section 3: Citrix ADC Platforms</b>		
3.01	Determine which hardware to use (Citrix ADC MPX, VPX, CPX, BLX or SDX) when given a use case.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 3)</a> <a href="https://citrixexams.sharefile.com/d-sac98a0ef5cce4ef3b37eeac43b1949f3">https://citrixexams.sharefile.com/d-sac98a0ef5cce4ef3b37eeac43b1949f3</a> <a href="https://citrixexams.sharefile.com/d-sf69435b4c37d47e2a364f933fc780f82">https://citrixexams.sharefile.com/d-sf69435b4c37d47e2a364f933fc780f82</a> <a href="https://citrixexams.sharefile.com/d-s32ea30a251884090a0a790fa99e4223c">https://citrixexams.sharefile.com/d-s32ea30a251884090a0a790fa99e4223c</a>

Objective Number	Objective	References
3.02	Identify the pieces of the multi-tenant structure for Citrix ADC SDX.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 3)</a> <a href="https://citrixexams.sharefile.com/d-sb7ddd2e243eb48eb93a65cd74b144046">https://citrixexams.sharefile.com/d-sb7ddd2e243eb48eb93a65cd74b144046</a> <a href="https://citrixexams.sharefile.com/d-s50fab2483956433da805e939f6ee2c00">https://citrixexams.sharefile.com/d-s50fab2483956433da805e939f6ee2c00</a>
3.03	Determine the specific function of the SDX when given various SDX interface allocation scenarios	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 2 and 3)</a> <a href="https://citrixexams.sharefile.com/d-s6b40d5342c1048778e8d5cce7dc8c69a">https://citrixexams.sharefile.com/d-s6b40d5342c1048778e8d5cce7dc8c69a</a> <a href="https://citrixexams.sharefile.com/d-sb849d660a8dc4a08b6438a5aeb1b9c8c">https://citrixexams.sharefile.com/d-sb849d660a8dc4a08b6438a5aeb1b9c8c</a> <a href="https://citrixexams.sharefile.com/d-sde202bd48a0a4cb593fb64474a70c110">https://citrixexams.sharefile.com/d-sde202bd48a0a4cb593fb64474a70c110</a> <a href="https://support.citrix.com/article/CTX134962/link-aggregation-on-a-netScaler-sdx-appliance">https://support.citrix.com/article/CTX134962/link-aggregation-on-a-netScaler-sdx-appliance</a>
<b>Section 4: High Availability</b>		
4.01	Understand how the high availability (HA) process works on Citrix ADC.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 4)</a> <a href="https://citrixexams.sharefile.com/d-se0e0a62686f44108905329a987eeae66">https://citrixexams.sharefile.com/d-se0e0a62686f44108905329a987eeae66</a>
4.02	Determine the appropriate Citrix ADC high availability configuration options, including advanced settings, given a description of an environment.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 4)</a> <a href="https://citrixexams.sharefile.com/d-seb20d116da584bab8c8ffcdb45831b17">https://citrixexams.sharefile.com/d-seb20d116da584bab8c8ffcdb45831b17</a> <a href="https://citrixexams.sharefile.com/d-sef8d8221dc6d47ed8b241a52a4731771">https://citrixexams.sharefile.com/d-sef8d8221dc6d47ed8b241a52a4731771</a> <a href="https://docs.citrix.com/en-us/citrix-adc/current-release/system/high-availability-introduction/configuring-high-availability.html">https://docs.citrix.com/en-us/citrix-adc/current-release/system/high-availability-introduction/configuring-high-availability.html</a> <a href="https://support.citrix.com/article/CTX121149/recommended-settings-and-best-practices-for-generic-implementation-of-a-netScaler-appliance">https://support.citrix.com/article/CTX121149/recommended-settings-and-best-practices-for-generic-implementation-of-a-netScaler-appliance</a>

Objective Number	Objective	References
4.03	Determine which method should be used to manage a Citrix ADC high availability configuration given a scenario.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway</a> (Module 4) <a href="https://support.citrix.com/article/CTX111531">https://support.citrix.com/article/CTX111531</a> <a href="https://citrixexams.sharefile.com/d-sb1ef079660604853a8fb4d72f6481898">https://citrixexams.sharefile.com/d-sb1ef079660604853a8fb4d72f6481898</a> <a href="https://citrixexams.sharefile.com/d-s91fbee033d3348d195205cc4f1fc23af">https://citrixexams.sharefile.com/d-s91fbee033d3348d195205cc4f1fc23af</a>
4.04	Determine how to resolve common high availability issues.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway</a> (Module 4) <a href="https://citrixexams.sharefile.com/d-sacf1fb84cdf04a84895ff00b336fea61">https://citrixexams.sharefile.com/d-sacf1fb84cdf04a84895ff00b336fea61</a> <a href="https://citrixexams.sharefile.com/d-s4de26210bf814de3af0d24ee02c322e9">https://citrixexams.sharefile.com/d-s4de26210bf814de3af0d24ee02c322e9</a> <a href="https://support.citrix.com/article/CTX204685/secondary-node-shows-down-in-netscaler-high-availability">https://support.citrix.com/article/CTX204685/secondary-node-shows-down-in-netscaler-high-availability</a>
<b>Section 5: Load Balancing</b>		
5.01	Identify the Citrix ADC load-balancing role of entities.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway</a> (Module 5) <a href="https://citrixexams.sharefile.com/d-s7089b489bafc49f2881b9e066e7d1a68">https://citrixexams.sharefile.com/d-s7089b489bafc49f2881b9e066e7d1a68</a> <a href="https://citrixexams.sharefile.com/d-s5eb0ee2f20af437e954191fa6b2b8187">https://citrixexams.sharefile.com/d-s5eb0ee2f20af437e954191fa6b2b8187</a>
5.02	Determine when to use the different load-balancing and monitoring options available on the Citrix ADC.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway</a> (Module 5) <a href="https://support.citrix.com/article/CTX209292">https://support.citrix.com/article/CTX209292</a> <a href="https://citrixexams.sharefile.com/d-scd9f1a0035c84933a25afde38211b0e1">https://citrixexams.sharefile.com/d-scd9f1a0035c84933a25afde38211b0e1</a> <a href="https://citrixexams.sharefile.com/d-sece11a0caddc4854bac8570742e011fe">https://citrixexams.sharefile.com/d-sece11a0caddc4854bac8570742e011fe</a> <a href="https://citrixexams.sharefile.com/d-se1c382d4b3754942858f28b5a30f213d">https://citrixexams.sharefile.com/d-se1c382d4b3754942858f28b5a30f213d</a>

Objective Number	Objective	References
5.03	Determine how to customize monitoring and service options based on a scenario.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 5)</a> <a href="https://citrixexams.sharefile.com/d-sc9b7cbfa77cf4175a6953329d1ee2cd2">https://citrixexams.sharefile.com/d-sc9b7cbfa77cf4175a6953329d1ee2cd2</a> <a href="https://support.citrix.com/article/CTX209292/netscaler-httppecv-monitors">https://support.citrix.com/article/CTX209292/netscaler-httppecv-monitors</a> <a href="https://citrixexams.sharefile.com/d-sd4e105855de7401089d842ada00447e6">https://citrixexams.sharefile.com/d-sd4e105855de7401089d842ada00447e6</a>
5.04	Determine which method to use to protect and troubleshoot a Citrix ADC load-balancing configuration based on a given scenario.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 5)</a> <a href="https://support.citrix.com/article/CTX108886/netscaler-load-balancing-slow-start-mode">https://support.citrix.com/article/CTX108886/netscaler-load-balancing-slow-start-mode</a>
<b>Section 6: SSL Offload</b>		
6.01	Determine the process and requirement for creating and uploading SSL Certificates.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 6)</a> <a href="https://support.citrix.com/article/CTX108800/error-ssl-error-61-you-have-not-chosen-to-trust-certificate-authority-on-workspace-app-for-mac">https://support.citrix.com/article/CTX108800/error-ssl-error-61-you-have-not-chosen-to-trust-certificate-authority-on-workspace-app-for-mac</a> <a href="https://citrixexams.sharefile.com/d-scc48ab089d9349ebaa7ab3bc1f11727a">https://citrixexams.sharefile.com/d-scc48ab089d9349ebaa7ab3bc1f11727a</a>
6.02	Determine how to create SSL virtual servers.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 6)</a> <a href="https://citrixexams.sharefile.com/d-s17fab01ab90b459da0b316cec49ce117">https://citrixexams.sharefile.com/d-s17fab01ab90b459da0b316cec49ce117</a> <a href="https://citrixexams.sharefile.com/d-s6fa9df9d9aed4865a95fac9fc814a203">https://citrixexams.sharefile.com/d-s6fa9df9d9aed4865a95fac9fc814a203</a>
6.03	Determine which SSL deployment to use for a given environment.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 6)</a> <a href="https://citrixexams.sharefile.com/d-s98fbe92be3d04fdc8259dbb6ccaa1822">https://citrixexams.sharefile.com/d-s98fbe92be3d04fdc8259dbb6ccaa1822</a> <a href="https://citrixexams.sharefile.com/d-s814d5119e2884fd5a7ddd86ff0ec0f6e">https://citrixexams.sharefile.com/d-s814d5119e2884fd5a7ddd86ff0ec0f6e</a>

Objective Number	Objective	References
6.04	Determine which Citrix ADC configuration settings can prevent a given SSL Exploit.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway</a> (Module 6) <a href="https://citrixexams.sharefile.com/d-sdf629c63b66c458db80abd4912f108dd">https://citrixexams.sharefile.com/d-sdf629c63b66c458db80abd4912f108dd</a> <a href="https://citrixexams.sharefile.com/d-sd9905c3ed9e34144b924b53d1e031f67">https://citrixexams.sharefile.com/d-sd9905c3ed9e34144b924b53d1e031f67</a> <a href="https://www.citrix.com/blogs/2016/06/09/scoring-an-a-at-ssllabs-com-with-citrix-netScaler-2016-update">https://www.citrix.com/blogs/2016/06/09/scoring-an-a-at-ssllabs-com-with-citrix-netScaler-2016-update</a>

### Section 7: Securing the Citrix ADC

7.01	Determine how to utilize authentication, authorization, and auditing.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway</a> (Module 7) <a href="https://citrixexams.sharefile.com/d-sba8798f58eb343f5ba31d4047d84b89e">https://citrixexams.sharefile.com/d-sba8798f58eb343f5ba31d4047d84b89e</a> <a href="https://citrixexams.sharefile.com/d-sb01855185cb04304bab0c6952d922245">https://citrixexams.sharefile.com/d-sb01855185cb04304bab0c6952d922245</a>
7.02	Determine how to configure authentication and authorization on Citrix ADC.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway</a> (Module 7) <a href="https://citrixexams.sharefile.com/d-sc4bf34dc69c84ef6b7bf04dc38dcdf88">https://citrixexams.sharefile.com/d-sc4bf34dc69c84ef6b7bf04dc38dcdf88</a> <a href="https://citrixexams.sharefile.com/d-sd40e106c470a4d2ab652456a7db4cefa">https://citrixexams.sharefile.com/d-sd40e106c470a4d2ab652456a7db4cefa</a>
7.03	Determine the components and steps required to secure a Citrix ADC configuration.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway</a> (Module 7) <a href="https://citrixexams.sharefile.com/d-s4cc81ba0d12e4fbaa2a23da9a529c271">https://citrixexams.sharefile.com/d-s4cc81ba0d12e4fbaa2a23da9a529c271</a>
7.04	Determine how to utilize admin partitions in a given scenario.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway</a> (Module 7) <a href="https://citrixexams.sharefile.com/d-sb103cc724d474f2a92564c4c51e41905">https://citrixexams.sharefile.com/d-sb103cc724d474f2a92564c4c51e41905</a> <a href="https://citrixexams.sharefile.com/d-s051d79d9b1784e7daeb6e43d32c8ecb3">https://citrixexams.sharefile.com/d-s051d79d9b1784e7daeb6e43d32c8ecb3</a>

Objective Number	Objective	References
<b>Section 8: Troubleshooting</b>		
8.01	Determine how to resolve Citrix ADC log issues.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 8)</a> <a href="https://citrixexams.sharefile.com/d-s1fa95bf46dc644e989d1fd73517a30e0">https://citrixexams.sharefile.com/d-s1fa95bf46dc644e989d1fd73517a30e0</a> <a href="https://citrixexams.sharefile.com/d-s9fcd9c95ec334012a70ec29ee21848e7">https://citrixexams.sharefile.com/d-s9fcd9c95ec334012a70ec29ee21848e7</a>
8.02	Determine how to monitor the Citrix ADC environment with Simple Network Management Protocol data.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 8)</a> <a href="https://citrixexams.sharefile.com/d-s9b963e66b3b64f39a68b7549602f76c6">https://citrixexams.sharefile.com/d-s9b963e66b3b64f39a68b7549602f76c6</a> <a href="https://citrixexams.sharefile.com/d-s0e8400d4e721455f8884ad7e44233b7d">https://citrixexams.sharefile.com/d-s0e8400d4e721455f8884ad7e44233b7d</a>
8.03	Determine how to use AppFlow and Citrix Application Delivery Management features to troubleshoot an issue within Citrix ADC.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 8)</a> <a href="https://citrixexams.sharefile.com/d-s2b2750beb31e400fad5161d53660c18c">https://citrixexams.sharefile.com/d-s2b2750beb31e400fad5161d53660c18c</a>
8.04	Determine how to use the Citrix Application Delivery Management to troubleshoot a given issue.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 8)</a> <a href="https://citrixexams.sharefile.com/d-sddf470b259ff4640a7370a1e9af0dafd">https://citrixexams.sharefile.com/d-sddf470b259ff4640a7370a1e9af0dafd</a>
8.05	Determine which Citrix ADC troubleshooting tool to use to identify a given issue in an environment.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 8)</a> <a href="https://citrixexams.sharefile.com/d-s23c52ec85a2b41e2a6dc977283a6e91a">https://citrixexams.sharefile.com/d-s23c52ec85a2b41e2a6dc977283a6e91a</a>
<b>Section 9: Citrix Gateway</b>		
9.01	Determine a given Citrix Gateway feature's role for application delivery.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 9)</a> <a href="https://citrixexams.sharefile.com/d-s493f3a2826c5461eab32835fd05ed099">https://citrixexams.sharefile.com/d-s493f3a2826c5461eab32835fd05ed099</a> <a href="https://citrixexams.sharefile.com/d-sf33e55ad0a5c4d3aad1a5f65ba801d59">https://citrixexams.sharefile.com/d-sf33e55ad0a5c4d3aad1a5f65ba801d59</a> <a href="https://citrixexams.sharefile.com/d-sbfc66452036848ee95e884031c0d77ba">https://citrixexams.sharefile.com/d-sbfc66452036848ee95e884031c0d77ba</a>



Objective Number	Objective	References
9.02	Determine how to configure Citrix Gateway in a given environment.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway</a> (Module 9) <a href="https://citrixexams.sharefile.com/d-s0f5510d2b0f041359b416e50935508d4">https://citrixexams.sharefile.com/d-s0f5510d2b0f041359b416e50935508d4</a> <a href="https://citrixexams.sharefile.com/d-sd3af86979e3e4bb28cfddb50aec0706f">https://citrixexams.sharefile.com/d-sd3af86979e3e4bb28cfddb50aec0706f</a>
9.03	Determine how to configure common deployments.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway</a> (Module 9) <a href="https://citrixexams.sharefile.com/d-sa097d9bd27b64280bfe6eec48b1f04d7">https://citrixexams.sharefile.com/d-sa097d9bd27b64280bfe6eec48b1f04d7</a> <a href="https://citrixexams.sharefile.com/d-s96e4f1fbc14740fda1fc036420563bd7">https://citrixexams.sharefile.com/d-s96e4f1fbc14740fda1fc036420563bd7</a>
<b>Section 10: AppExpert</b>		
10.01	Determine the appropriate policy expression structure of AppExpert to be used for a given environment.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway</a> (Module 10) <a href="https://citrixexams.sharefile.com/d-s8507343a814c4c5bbb31697cc4bc7b6c">https://citrixexams.sharefile.com/d-s8507343a814c4c5bbb31697cc4bc7b6c</a> <a href="https://citrixexams.sharefile.com/d-s3078bba8b9124d858c6c702bcb689631">https://citrixexams.sharefile.com/d-s3078bba8b9124d858c6c702bcb689631</a>
10.02	Determine how to configure pattern sets and data sets for a given environment.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway</a> (Module 10) <a href="https://citrixexams.sharefile.com/d-sbeef99c072eb443aae50d9d1332a8471">https://citrixexams.sharefile.com/d-sbeef99c072eb443aae50d9d1332a8471</a> <a href="https://citrixexams.sharefile.com/d-s0e3d2623b3f348ca9b858598477a1e39">https://citrixexams.sharefile.com/d-s0e3d2623b3f348ca9b858598477a1e39</a>
10.03	Determine how to utilize policy bind points for a given environment.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway</a> (Module 10) <a href="https://citrixexams.sharefile.com/d-s314cfd662baf4cdf926458a7c8fc6a6c">https://citrixexams.sharefile.com/d-s314cfd662baf4cdf926458a7c8fc6a6c</a>
10.04	Determine how to use AppExpert with Citrix Gateway.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway</a> (Module 10) <a href="https://citrixexams.sharefile.com/d-s796e4a4dafb240b2a863b3a5ad35a5bc">https://citrixexams.sharefile.com/d-s796e4a4dafb240b2a863b3a5ad35a5bc</a> <a href="https://citrixexams.sharefile.com/d-s97cebdbb87e74577a396a537edf7ff44">https://citrixexams.sharefile.com/d-s97cebdbb87e74577a396a537edf7ff44</a>

Objective Number	Objective	References
<b>Section 11: Authentication and Authorization</b>		
11.01	Determine the steps in Authentication process to establish identity.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 11)</a> <a href="https://citrixexams.sharefile.com/d-sc893b960dba74340bdca52e072aacaab">https://citrixexams.sharefile.com/d-sc893b960dba74340bdca52e072aacaab</a> <a href="https://citrixexams.sharefile.com/d-sa97cb1e0c3114bac8907caf026c8917a">https://citrixexams.sharefile.com/d-sa97cb1e0c3114bac8907caf026c8917a</a>
11.02	Determine the steps in Authorization process to provide access to resources.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 11)</a> <a href="https://citrixexams.sharefile.com/d-s9c068bd2b0e648c6801a0b1fc3cc9a1c">https://citrixexams.sharefile.com/d-s9c068bd2b0e648c6801a0b1fc3cc9a1c</a> <a href="https://citrixexams.sharefile.com/d-sabc55d34cddb4b6290ad70a6de8ac469">https://citrixexams.sharefile.com/d-sabc55d34cddb4b6290ad70a6de8ac469</a>
11.03	Determine how to customize multi-factor authentication.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 11)</a> <a href="https://citrixexams.sharefile.com/d-s70cda40c21814ba99e65dab080fcee14">https://citrixexams.sharefile.com/d-s70cda40c21814ba99e65dab080fcee14</a> <a href="https://support.citrix.com/article/CTX214874">https://support.citrix.com/article/CTX214874</a>
11.04	Determine how to deploy Authentication and Authorization policies.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 11)</a> <a href="https://citrixexams.sharefile.com/d-s7352d590293c43a4ba45990bd6e9516e">https://citrixexams.sharefile.com/d-s7352d590293c43a4ba45990bd6e9516e</a> <a href="https://citrixexams.sharefile.com/d-s35b9c1eba2974071b11c163157477cef">https://citrixexams.sharefile.com/d-s35b9c1eba2974071b11c163157477cef</a>
11.05	Determine how to configure nFactor in a given environment.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 11)</a> <a href="https://citrixexams.sharefile.com/d-sab526ccd2d9240cc90c9da1df8f65326">https://citrixexams.sharefile.com/d-sab526ccd2d9240cc90c9da1df8f65326</a>
11.06	Determine how to configure SAML authentication based on a set of requirements.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 11)</a> <a href="https://citrixexams.sharefile.com/d-s23581c9a8d124d11bb835b066cb0c876">https://citrixexams.sharefile.com/d-s23581c9a8d124d11bb835b066cb0c876</a> <a href="https://citrixexams.sharefile.com/d-sd31c96c65f5744a7b25a74809f74adbd">https://citrixexams.sharefile.com/d-sd31c96c65f5744a7b25a74809f74adbd</a>

Objective Number	Objective	References
<b>Section 12: Managing Client Connections</b>		
12.01	Determine how to configure Citrix Gateway plug-in with Citrix Receiver to establish VPN.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 12)</a> <a href="https://citrixexams.sharefile.com/d-s83b93be808364bd080b53acbcbedad9b">https://citrixexams.sharefile.com/d-s83b93be808364bd080b53acbcbedad9b</a> <a href="https://citrixexams.sharefile.com/d-s1d55185de41e4c1dbff1aee14e73b73f">https://citrixexams.sharefile.com/d-s1d55185de41e4c1dbff1aee14e73b73f</a>
12.02	Determine how to configure the access level and which applications users are allowed to access in the secure network.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 12)</a> <a href="https://citrixexams.sharefile.com/d-s0d166d9c37914d67a5e47217e50a4973">https://citrixexams.sharefile.com/d-s0d166d9c37914d67a5e47217e50a4973</a> <a href="https://citrixexams.sharefile.com/d-sb60d02b05c794bc1b9b92012a7cd9d6f">https://citrixexams.sharefile.com/d-sb60d02b05c794bc1b9b92012a7cd9d6f</a>
12.03	Determine how to configure pre-authentication policies and profiles to check for client-side security before users are authenticated.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 12)</a> <a href="https://citrixexams.sharefile.com/d-s7cf8e7e13ef44961b97ce41cea232f4f">https://citrixexams.sharefile.com/d-s7cf8e7e13ef44961b97ce41cea232f4f</a> <a href="https://citrixexams.sharefile.com/d-s81016e46cf654f3dad865b82b9db5cda">https://citrixexams.sharefile.com/d-s81016e46cf654f3dad865b82b9db5cda</a> <a href="https://citrixexams.sharefile.com/d-s5754ade5ffa84839a27658cca09a396d">https://citrixexams.sharefile.com/d-s5754ade5ffa84839a27658cca09a396d</a>
12.04	Determine how to deploy Citrix Gateway to allow user connections, including logon options.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 12)</a> <a href="https://citrixexams.sharefile.com/d-s199cb47276154d4bba10d7cab3854db4">https://citrixexams.sharefile.com/d-s199cb47276154d4bba10d7cab3854db4</a> <a href="https://citrixexams.sharefile.com/d-s2065694b7ff34807bd28b165b0e71ee9">https://citrixexams.sharefile.com/d-s2065694b7ff34807bd28b165b0e71ee9</a>
12.05	Determine how to configure endpoint analysis for a given environment.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 12)</a> <a href="https://citrixexams.sharefile.com/d-s8c8d5667fc9a4d76bc85d55a888baa1c">https://citrixexams.sharefile.com/d-s8c8d5667fc9a4d76bc85d55a888baa1c</a> <a href="https://citrixexams.sharefile.com/d-s4fc02fbf6ffb4aed9b67a08f4d4bb0e9">https://citrixexams.sharefile.com/d-s4fc02fbf6ffb4aed9b67a08f4d4bb0e9</a>

Objective Number	Objective	References
12.06	Determine when to use the Always-ON feature for a VPN solution.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway</a> (Module 12) <a href="https://citrixexams.sharefile.com/d-sf68b831c31f7407ab49e60d3a05a5af6">https://citrixexams.sharefile.com/d-sf68b831c31f7407ab49e60d3a05a5af6</a> <a href="https://citrixexams.sharefile.com/d-s8247fa0da79d43d58e977e17f509d969">https://citrixexams.sharefile.com/d-s8247fa0da79d43d58e977e17f509d969</a>
<b>Section 13: Integration for Citrix Virtual Apps and Desktop Solutions</b>		
13.01	Determine how to integrate Citrix Gateway with Citrix Virtual Apps and Desktops.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway</a> (Module 13) <a href="https://citrixexams.sharefile.com/d-sa35018dd0a8a43638f3cb1ca6f7da7e6">https://citrixexams.sharefile.com/d-sa35018dd0a8a43638f3cb1ca6f7da7e6</a> <a href="https://citrixexams.sharefile.com/d-s5b794bfe7731402086c1755c2b8033ef">https://citrixexams.sharefile.com/d-s5b794bfe7731402086c1755c2b8033ef</a>
13.02	Determine how to integrate with StoreFront.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway</a> (Module 13) <a href="https://citrixexams.sharefile.com/d-sfd434e7125f3414c8a90bc0f284e31c6">https://citrixexams.sharefile.com/d-sfd434e7125f3414c8a90bc0f284e31c6</a> <a href="https://citrixexams.sharefile.com/d-s8bd089973698492cafdd4de6f77c9630">https://citrixexams.sharefile.com/d-s8bd089973698492cafdd4de6f77c9630</a>
13.03	Determine how to enable Clientless Access and Receiver for ICA Proxy	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway</a> (Module 13) <a href="https://citrixexams.sharefile.com/d-s60a730c157f344d5b5778a7efb6cab41">https://citrixexams.sharefile.com/d-s60a730c157f344d5b5778a7efb6cab41</a> <a href="https://citrixexams.sharefile.com/d-se9f087ccb3b943c493a2c39466bb4c22">https://citrixexams.sharefile.com/d-se9f087ccb3b943c493a2c39466bb4c22</a> <a href="https://citrixexams.sharefile.com/d-sd43abd79b4bc4098b5eb243f5973df22">https://citrixexams.sharefile.com/d-sd43abd79b4bc4098b5eb243f5973df22</a>
13.04	Determine how to configure SmartControl for a given scenario.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway</a> (Module 13) <a href="https://citrixexams.sharefile.com/d-safa4b9f1ca704911a31cb0218d47274a">https://citrixexams.sharefile.com/d-safa4b9f1ca704911a31cb0218d47274a</a> <a href="https://citrixexams.sharefile.com/d-s96979f3c046c4c5a8707bf9a1fd1f1a1">https://citrixexams.sharefile.com/d-s96979f3c046c4c5a8707bf9a1fd1f1a1</a>

Objective Number	Objective	References
13.05	Determine how to configure SmartAccess for a given scenario.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway</a> (Module 13) <a href="https://citrixexams.sharefile.com/d-s708783a02d6a4bb38caba0399aa512f0">https://citrixexams.sharefile.com/d-s708783a02d6a4bb38caba0399aa512f0</a>
<b>Section 14: Customizing Citrix Gateway</b>		
14.01	Determine how to configure Citrix Gateway applications based on given requirements.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway</a> (Module 14) <a href="https://citrixexams.sharefile.com/d-se43298d5901243a185d25fa8f0cb6a90">https://citrixexams.sharefile.com/d-se43298d5901243a185d25fa8f0cb6a90</a> <a href="https://citrixexams.sharefile.com/d-s68c5ca4301314b3db37f17e65aca7d12">https://citrixexams.sharefile.com/d-s68c5ca4301314b3db37f17e65aca7d12</a>
14.02	Determine how to configure RDP Proxy for a given environment.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway</a> (Module 14) <a href="https://citrixexams.sharefile.com/d-se9c6aad8f79d479480331320989c921a">https://citrixexams.sharefile.com/d-se9c6aad8f79d479480331320989c921a</a> <a href="https://citrixexams.sharefile.com/d-s34e485bfe7994fb6bfe427c5dc394624">https://citrixexams.sharefile.com/d-s34e485bfe7994fb6bfe427c5dc394624</a>
14.03	Determine how to configure portal themes for a given environment.	<a href="#">CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway</a> (Module 14) <a href="https://citrixexams.sharefile.com/d-scec6dc6ef7ee47fa9058b327267083ed">https://citrixexams.sharefile.com/d-scec6dc6ef7ee47fa9058b327267083ed</a> <a href="https://citrixexams.sharefile.com/d-s491d0cef42a34423bef3a64b4ac3b85f">https://citrixexams.sharefile.com/d-s491d0cef42a34423bef3a64b4ac3b85f</a>

# Appendix: Practice

Exam Overview

Preparation

Contributors & Marks

## 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, "Troubleshoot high availability" and one of the examples reads, “determine how to resolve a given issue”, exam-takers could expect to see:

### **A scenario describing an issue with high availability -**

***Scenario:** A Citrix Administrator is attempting to configure high availability for a Citrix ADC MPX pair. Each Citrix ADC appliance resides in a different subnet. The administrator noticed that network connectivity between the appliances was lost once the high availability pair was established.*

### **A question that requires determining how to resolve the given issue -**

*What must the administrator enable to correct this issue?*

The objectives for this exam were developed by Exam Project Managers and Subject matter experts based on identified tasks that relate to installing, configuring and/or operating Citrix ADC 13 in enterprise environments.

## Sample Question 1

Which Citrix ADC-owned IP address will, by default, send traffic from the Citrix ADC to NTP servers?

- A. VIP
- B. NSIP
- C. CLIP
- D. SNIP

Answer: B

Objective: Determine which interfaces IP address types and VLANS to use during configuration of a given environment.

Sources: <https://www.citrix.com/blogs/2018/07/23/separating-netScaler-management-and-data-traffic-for-disa-stigs/> and CNS-227 Course, Module 2

# Appendix: Practice

Exam Overview

**Preparation**

Contributors & Marks

## Sample Question 2

What is a recommended practice for managing a Citrix ADC high availability (HA) pair to ensure that management changes are always made on the primary Citrix ADC?

- A. Enable management access on the Cluster IP (CLIP) address.
- B. Enable USIP on both nodes (primary and secondary).
- C. Enable management access to a SNIP.
- D. Connect to both Citrix ADCs to see which one is the primary.

Answer: D

Objective: Determine which method should be used to manage a Citrix ADC high availability configuration given a scenario.

Source: <https://support.citrix.com/article/CTX111531> and CNS-227 Course, Module 4

## Sample Question 3

A Citrix Administrator needs to have users in the vendor department connect to internal web applications through Web access only.

Which configuration mode should the administrator configure on the Citrix Gateway?

- A. Clientless access
- B. ICA proxy
- C. Reverse proxy
- D. Full SSL VPN

Answer: A

Objective: Determine how to configure Citrix Gateway in a given environment.

Source: <https://citrixexams.sharefile.com/d-s83b6b0c5e2d04c8a8c217ab16694f135> and CNS-227 Course, Module 9

# Appendix: Practice

Exam Overview

Preparation

Contributors & Marks

## Sample Question 4

**Scenario:** The policies below are bound to a content-switching virtual server.

```
bind cs vserver vserver1 -policyName CSPOL_7 -priority 100 -
gotoPriorityExpression NEXT
bind cs vserver vserver1 -policyName CSPOL_5 -priority 90
bind cs vserver vserver1 -policyName CSPOL_9 -priority 110
bind cs vserver vserver1 -policyName CSPOL_4 -priority 120
bind cs vserver vserver1 -policyName CSPOL_8 -priority 210
```

If policy CSPOL\_7 is invoked, which policy should be invoked next?

- A. CSPOL\_9
- B. CSPOL\_8
- C. CSPOL\_5
- D. CSPOL\_4

Answer: A

Objective: Determine how to utilize policy bind points for a given environment.

Source: <https://citrixexams.sharefile.com/d-s121747de55a04a23ae6654648e84ea8a> and CNS-227 Course, Module 10

## Sample Question 5

To which three bind points can a Citrix Administrator bind a session policy, to enable Clientless access? (Choose three.)

- A. Service
- B. Virtual server
- C. User
- D. Service group
- E. Group

Answer: BCE

Objective: Determine the steps in Authentication process to establish identity.

Source: <https://citrixexams.sharefile.com/d-sdcbdf414d87e4c94a424cbdc4caa7822> and CNS-227 Course, Module 11



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