

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

Exam Preparation Guide 4.0

May 19, 2023

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.



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Exam Overview

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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: Time Extension Request

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://www.citrix.com/training-and-certifications.html>.

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

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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://www.citrix.com/training-and-certifications.html>



Prepping for the Exam

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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

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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

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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%
TOTAL	100%

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

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

Objective Number	Objective	References
Section 2: Basic Networking		
2.01	Determine which networking topology to use with Citrix ADC based on given requirements.	CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 2) https://citrixexams.sharefile.com/d-saeca91a5bfd489893ad6181b4aeee05 https://citrixexams.sharefile.com/d-s7ad0f412fee9472ba362f32f88f6292c
2.02	Determine which interfaces IP address types and VLANS to use during configuration of a given environment.	CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 2) https://citrixexams.sharefile.com/d-s91016c76f2214bfd8c7d8a6bfa58cbef https://citrixexams.sharefile.com/d-s1efbb04561e345b799ab51d715abe7e0
2.03	Identify which Citrix ADC routing and traffic-handling mode should be used for a given environment	CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 2) https://citrixexams.sharefile.com/d-s3df869430208453ca9220f8aa1240686
2.04	Determine how to configure Access Control Lists based on given requirements.	CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 2) https://citrixexams.sharefile.com/d-sbe9ffd2b980d4b59b6975e8a1e6b9391 https://citrixexams.sharefile.com/d-s1f8c7e3e93264eafa400ac71c3a2132a
Section 3: Citrix ADC Platforms		
3.01	Determine which hardware to use (Citrix ADC MPX, VPX, CPX, BLX or SDX) when given a use case.	CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 3) https://citrixexams.sharefile.com/d-sac98a0ef5cce4ef3b37eeac43b1949f3 https://citrixexams.sharefile.com/d-sf69435b4c37d47e2a364f933fc780f82 https://citrixexams.sharefile.com/d-s32ea30a251884090a0a790fa99e4223c

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

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

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

Objective Number	Objective	References
6.04	Determine which Citrix ADC configuration settings can prevent a given SSL Exploit.	CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 6) https://citrixexams.sharefile.com/d-sdf629c63b66c458db80abd4912f108dd https://citrixexams.sharefile.com/d-sd9905c3ed9e34144b924b53d1e031f67 https://www.citrix.com/blogs/2016/06/09/scoring-an-a-at-sslabs-com-with-citrix-netscaler-2016-update
Section 7: Securing the Citrix ADC		
7.01	Determine how to utilize authentication, authorization, and auditing.	CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 7) https://citrixexams.sharefile.com/d-sba8798f58eb343f5ba31d4047d84b89e https://citrixexams.sharefile.com/d-sb01855185cb04304bab0c6952d922245
7.02	Determine how to configure authentication and authorization on Citrix ADC.	CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 7) https://citrixexams.sharefile.com/d-sc4bf34dc69c84ef6b7bf04dc38dcdf88 https://citrixexams.sharefile.com/d-sd40e106c470a4d2ab652456a7db4cefa
7.03	Determine the components and steps required to secure a Citrix ADC configuration.	CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 7) https://citrixexams.sharefile.com/d-s4cc81ba0d12e4fbaa2a23da9a529c271
7.04	Determine how to utilize admin partitions in a given scenario.	CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway (Module 7) https://citrixexams.sharefile.com/d-sb103cc724d474f2a92564c4c51e41905 https://citrixexams.sharefile.com/d-s051d79d9b1784e7daeb6e43d32c8ecb3

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

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

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

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

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

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

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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

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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

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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-sdcdbdf414d87e4c94a424cbdc4caa7822> and CNS-227 Course, Module 11

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