

AVID LEARNING SERVICES

Certification Exam Study Guide



Avid Certified | System Administrator, Avid NEXIS

Exam	Avid NEXIS Administration
Exam Code	NX216
Type of Exam	Multiple choice
Certification Level	Avid Certified Support Administrator
Duration	60 minutes
No. of Questions	50
Passing Score	80% (40 correct answers)
Exam Language	English

Target Audience

Technical support staff, administrators and others who need to maintain, support and administrate Avid NEXIS systems.

Exam Preparation

Successful candidates will have extensive Avid NEXIS experience. Although course attendance is not required to take the certification exam, Avid highly recommends candidates attend the following course(s)

- [NX216 Avid NEXIS System Administration](#)

Certification



Completing the recommended course(s), coupled with hands-on experience will help you build the skills and competencies needed to pass the exam. Course attendance is optional, however. If you feel you have considerable, real-world experience implementing, installing, administering, and troubleshooting Avid NEXIS systems, then you may register and take the exam at any time.

Certification Topics

The following topics are included in the certification exam. You should be well-versed in the technical and operational details of the following:

1. Course Introduction
 - a. Who Should Take This Course
 - b. Learning Paths and Additional Resources
 - c. How Will I Learn?
2. Introduction to Avid NEXIS Products
 - a. Avid Storage Heritage
 - b. Next Generation Intelligent Storage
 - c. Software Defined Storage
 - d. Storage Virtualization for Media Applications
 - e. Avid NEXIS At-A-Glance
 - f. Shared Storage Product Lineup
 - g. Comparing Avid NEXIS Engines
 - h. Comparing Avid NEXIS I F5, F5 NL, E5, E5NL
 - i. Avid NEXIS Enterprise Filesystem
3. Avid NEXIS | Cloudspaces
 - a. Introducing Avid NEXIS I Cloudspaces
 - b. Types of Storage Systems
 - c. How Do Avid NEXIS I Cloudspaces work?
 - d. Advantages of Avid NEXIS I Cloudspaces
 - e. Comparing Avid NEXIS I Cloudspaces and Avid NEXIS I Cloud
 - f. Avid NEXIS I Cloudspaces Use Cases

4. Avid NEXIS Enterprise F and E Series Hardware
 - a. Avid NEXIS Enterprise F and E Series Engine
 - b. The Media Pack: The Avid NEXIS Common Building Block
 - c. Avid System Director
 - d. Avid NEXIS IFS Advanced License
 - e. Avid NEXIS Enterprise F and E Series Engine Components
 - f. Media Pack Close Up
 - g. Power Supply/Fan Module Specifications
 - h. Storage Controller Close Up
 - i. NEXIS Ports and Connections
 - j. Uninterruptible Power Supply (UPS)
 - k. Explore: Avid NEXIS Enterprise F and E Series Hardware Review
 - l. Network Switches
 - m. Client Connections
 - n. Supported Cabling
 - o. Client Operating Systems
5. Avid NEXIS | PRO and NEXIS | PRO+ Hardware
 - a. Avid NEXIS Enterprise F and E Series Engine
 - b. The Media Pack: The Avid NEXIS Common Building Block
 - c. Avid System Director
 - d. Avid NEXIS IFS Advanced License
 - e. Avid NEXIS Enterprise F and E Series Engine Components
 - f. Media Pack Close Up
 - g. Power Supply/Fan Module Specifications
 - h. Storage Controller Close Up
 - i. NEXIS Ports and Connections
 - j. Uninterruptible Power Supply (UPS)
 - k. Explore: Avid NEXIS Enterprise F and E Series Hardware Review
 - l. Network Switches
 - m. Client Connections
 - n. Supported Cabling
 - o. Client Operating Systems
6. Basic Avid NEXIS Networking
 - a. Avid NEXIS Network Configurations
 - b. Switched Configuration
 - c. Routed Configuration
 - d. IP Address
 - e. Demonstration: Set the IP Address on a Windows Client
 - f. Demonstration: Set the IP Address on a macOS Client
 - g. Demonstration: Keep a List of Your IP Addresses
 - h. Demonstration: Host Names

7. Working with the Management Console
 - a. Management Console
 - b. Supported Browsers
 - c. Demonstration: How Do I Access the Management Console?
 - d. Explore: Avid NEXIS Management Console
 - e. Updating Information
 - f. Demonstration: Changing the Administrator Password
 - g. Demonstration: Adjusting the Management Console Display
8. Avid NEXIS Licensing
 - a. F-Series Licensing
 - b. E-Series Licensing
 - c. Mixed E and F-Series Licensing
 - d. NEXIS I PRO and PRO+
9. Managing Workspaces
 - a. Storage Groups
 - b. What are Workspaces?
 - c. Demonstration: Creating a Workspace
 - d. Demonstration: Modifying a Workspace
10. Provisioning Cloudspaces
 - a. System Requirements
 - b. Subscribing and Activating Cloudspaces
 - c. Displaying Cloud Subscription Data
 - d. Managing Subscriptions and Charges
11. Managing Users and Groups
 - a. Users
 - b. User Bandwidth
 - c. What are Groups?
 - d. Demonstration: Creating a New User
 - e. Demonstration: Creating a New Group
 - f. Managing LDAP Accounts
 - g. Opening the LDAP Sync Tool
 - h. Using the LDAP Sync Tool
 - i. LDAP Sync Tool Actions
 - j. Importing LDAP Users with Incorrectly Formatted LDAP UIDs
12. NEXIS Teams
 - a. What are NEXIS Teams?
 - b. NEXIS Teams Prefix
 - c. NEXIS Teams Workspaces
 - d. NEXIS Team Administrator
 - e. NEXIS Teams Users

13. Managing Client Systems

- a. Requirements
- b. Client Manager
- c. Client Software Installation
- d. Demonstration: Connecting to the Avid NEXIS System
- e. Demonstration: Mounting a Workspace
- f. Changing Your Password
- g. Opening the NEXIS Management Console from the Client Manager
- h. Client Manager Preferences
- i. Remote Hosts
- j. Network Interface Setting
- k. Clearing Cached Data
- l. Avid NEXIS Benchmark Utility
- m. Hosts Discovery
- n. Running the Benchmark Utility
- o. The Avid Path Diag Tool

14. Managing Avid NEXIS Hardware

- a. Demonstration: Upgrading All NEXIS Engines in a Configuration
- b. Demonstration: Displaying Drive Details
- c. Demonstration: Unbinding Media Packs from the Avid NEXIS File System
- d. Demonstration: Removing Orphaned Media Packs

15. Managing Storage with Cloudspaces

- a. Demonstration: Working with the Dashboards
- b. Demonstration: Testing Network Speed to the Cloud
- c. Demonstration: Creating and Adjusting Cloudspaces
- d. Demonstration: Displaying Cloudspaces Details
- e. Demonstration: Client Access to Cloudspaces

16. Replacing Failed Hardware

- a. About Data Protection
- b. Protection Types
- c. Demonstration: Failure Indicators
- d. Procedure: Replacing a Failed Drive
- e. Procedure: Replacing a Failed Power Supply
- f. Procedure: Replacing a Storage Controller
- g. About the Foreign Disk Status
- h. Clearing Foreign Disk Status

17. Avid NEXIS Tools

- a. Demonstration: Checking System Status
- b. Demonstration: Viewing Avid NEXIS Status Messages
- c. Explore: Common Avid NEXIS Statuses
- d. Using the NEXIS Toolbox
- e. About the Log Aggregator Tool
- f. Demonstration: Using the Log Aggregator Tool
- g. Disk Analyzer Tool
- h. Running Disk Analyzer Tool Tests
- i. Saving Disk Analyzer Test Results
- j. Demonstration: Troubleshooting Network Degraded
- k. Procedure: Monthly Maintenance

18. Avid NEXIS Advanced Settings

- a. Monitoring Bandwidth
- b. Demonstration: Configuring External Authentication
- c. Using the System Logs
- d. Demonstration: Using the NEXIS Snapshots Tool

19. Configuring a Multi-Engine System

- a. Environment and Infrastructure Considerations
- b. Demonstration: Connecting Multiple NEXIS Engines
- c. Configuring Multi-Engine Systems

20. Documentation and Links

- a. Conclusion
- b. Documentation and Links

Practice Questions

The following questions are not part of the current Avid NEXIS System Administrator certification exam but are similar to the questions likely to be asked.

1. How would you **update screen information to reflect recent changes**?
 - a. Click the Refresh button
 - b. Enable Continuous refresh
 - c. Enter a refresh interval in settings
 - d. Right-click and choose Update
 - e. A and B
2. What is the NEXIS Management Console used for?
 - a. Switch Configuration
 - b. Daily administration
 - c. Client Configuration
 - d. Disconnecting Clients
 - e. Installing Client Software
3. Which of the following is a main component of an Avid NEXIS Engine?
 - a. Switch
 - b. Client Manager
 - c. Media Pack
 - d. Storage Controller
 - e. C and D
4. True or False: Data in the Workspaces menu can be filtered
 - a. True
 - b. False
5. How many drives are in a Media Pack?
 - a. 5
 - b. 10
 - c. 12
 - d. 16
 - e. 20
6. Which of the following could cause an Orphaned Media Pack
 - a. The NEXIS system has too many installed Media Packs
 - b. An active partition has been removed from the Media Pack
 - c. A Media Pack with missing disks
 - d. A Media Pack that has been connected to another NEXIS System
 - e. A and C

7. How many Storage Groups can a Workspace be assigned to?
 - a. 1
 - b. 2
 - c. 6
 - d. 15
 - e. 24

8. What would prevent a Media Pack from being added to a Storage Group?
 - a. The Media Pack contains drives of a different size
 - b. The Media Pack contains a different Protection Type
 - c. The Media Pack contains a different Performance Type
 - d. The Media Pack contains too many drives
 - e. C and D

9. How many Groups can a user be a member of?
 - a. 1
 - b. 7
 - c. 15
 - d. 31
 - e. 63

10. True or false: A Workspace can be resized while clients have it mounted
 - a. True
 - b. False

11. True or false: Users may be imported from a CentOS Linux Server
 - a. True
 - b. False

12. How can you determine which drive has failed in an F2 Engine?
 - a. It will automatically eject from the engine
 - b. The red LED will slowly blink
 - c. The blue LED will slowly blink
 - d. The amber LED will be on steady
 - e. The amber LED will slowly blink

13. Which of the following configurations is required on all clients?
 - a. A Default Gateway
 - b. A Router Address
 - c. Remote Hosts
 - d. A and C
 - e. None of the above

14. What does a blue Client Manager Icon Indicate?
- The Client Manager is running, connected to NEXIS and workspaces are mounted
 - The Client Manager is running and connected to NEXIS but workspaces are not mounted
 - A connection problem
 - The Client Manager is running but not connected to a NEXIS
 - The Client Manager is unable to start
15. What is Path Diag used for?
- To test the speed of an individual Media Pack
 - To test the speed of a network switch
 - To test the speed of the System Director's connection to Cloudspaces**
 - To test the speed of a Client's Network connection**
 - A and B
16. How many files does NEXIS | PRO+ support?
- 500,000
 - 1,000,000
 - 3,000,000
 - 5,000,000
 - 20,000,000
17. True or False: The Log Aggregator report is required before connecting clients to a newly installed NEXIS system.
- True
 - False
18. True or False: **The LDAP Sync tool configures a user's Workspace access**
- True
 - False
19. Which of the following operating systems are supported for NEXIS Clients?
- Windows
 - Macintosh
 - CentOS Linux
 - Debian Linux
 - A, B and C
20. Which of the following systems would require an Avid NEXIS Volume License?
- A System with all E Series hardware
 - A System with all F Series hardware
 - A System with all NEXIS|PRO hardware
 - A System with all NEXIS|PRO+ hardware
 - B and D

Answers to Practice Questions

Use the answers below to check your knowledge on the practice questions.

1. E
2. B
3. E
4. A
5. B
6. D
7. A
8. C
9. C
10. A
11. B
12. D
13. E
14. B
15. D
16. C
17. B
18. B
19. E
20. E