

# NCP-US-6.10 Key Concepts, Exam NCP-US-6.10 Preparation

Nutanix NCP Unified Storage V6.5 NCP-US Knowledge Objectives	Items
Deploy and Upgrade Nutanix Unified Storage	<ol style="list-style-type: none"><li>1. Identify the steps to deploy Nutanix Files</li><li>2. Identify the steps to deploy Nutanix Objects</li><li>3. Perform upgrades/maintenance for Files/Objects implementations</li><li>4. Given a scenario, determine product and sizing parameters</li></ol>
Configure and Utilize Nutanix Unified Storage	<ol style="list-style-type: none"><li>1. Configure Nutanix Files with advanced features</li><li>2. Configure Nutanix Volumes</li><li>3. Configure Nutanix Objects</li><li>4. Given a scenario, configure shares, buckets, and/or Volume Groups</li><li>5. Determine the appropriate method to ensure data availability/recoverability</li></ol>
Analyze and Monitor Nutanix Unified Storage	<ol style="list-style-type: none"><li>1. Utilize File Analytics for data security</li><li>2. Describe how to monitor performance and usage</li><li>3. Describe the use of Data Lens for data security</li></ol>
Troubleshoot Nutanix Unified Storage	<ol style="list-style-type: none"><li>1. Troubleshoot issues related to Nutanix Files</li><li>2. Troubleshoot issues related to Nutanix Objects</li><li>3. Troubleshoot issues related to Nutanix Volumes</li><li>4. Explain Data Management processes for Files and Objects</li><li>5. Troubleshoot a failed upgrade for Files/Objects</li></ol>

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## >> NCP-US-6.10 Key Concepts <<

## Exam Nutanix NCP-US-6.10 Preparation, NCP-US-6.10 Exam Labs

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## Nutanix Certified Professional - Unified Storage (NCP-US) v6.10 Sample Questions (Q45-Q50):

### NEW QUESTION # 45

An administrator needs to create a volume group (VG) that will host highly sensitive data. These two requirements must be met:

- \* The VG must be accessible only by the OS where the data is going to be used by the application
- \* The access needs to be secured with an additional security login

Which three features or settings will help the administrator meet those requirements? (Choose two.)

- A. The VG configuration must contain only the IQN of the client OS where the application runs.
- B. All CVMs must have RDMA-capable NICs to facilitate direct peer-to-peer communication.
- C. CHAP authentication needs to be setup for that Volume Group.
- D. On-the-wire encryption must be enabled for all iSCSI traffic.

**Answer: A,C**

Explanation:

The Nutanix Unified Storage Administration (NUSA) course module "Configuring and Securing Volume Groups" specifies that to secure access to volume groups (VGs) containing sensitive data:

\* CHAP Authentication(Challenge-Handshake Authentication Protocol) provides an additional layer of security by requiring authentication before iSCSI connections are established. This satisfies the second requirement: "The access needs to be secured with

an additional security login."

\* IQN-based Access Control ensures that only the intended initiator (the client OS) can access the VG by explicitly specifying the IQN of the client in the VG configuration. This meets the first requirement:

"The VG must be accessible only by the OS where the data is going to be used by the application." While On-the-wire encryption is beneficial for data confidentiality, the course emphasizes that CHAP and IQN-based controls are the specific mechanisms for access security. RDMA-capable NICs are not relevant to restricting access or security in this context.

Reference:

Nutanix Unified Storage Administration (NUSA) course - Module: Configuring and Securing Volume Groups.

Nutanix Unified Storage (NCP-US) Study Guide - Topic: Volume Groups Security Best Practices.

## NEW QUESTION # 46

Question:

The administrator creates an S3 bucket as the backup target. While creating the Nutanix Objects endpoint to the newly created S3 bucket, the following error is observed:

"Method Not Allowed: An object from the object-lock enabled bucket can not be modified or deleted unless the retention period is elapsed." What is the most likely cause?

- **A. Write Once Read Many (WORM) is enabled on the S3 bucket.**
- B. Object-Level permissions are incorrect for GET, HEAD, and PUT bucket-level permissions.
- C. The S3 bucket name is incorrect.
- D. The API key is not configured correctly.

**Answer: A**

Explanation:

The error message explicitly references an object-lock enabled bucket and restrictions on modifying/deleting objects. This points directly to the WORM (Write Once Read Many) feature being enabled on the S3 bucket.

WORM (Object Lock):

\* Object Lock (also called WORM) prevents objects from being deleted or modified for a retention period set by the bucket's policy.

\* The error states:

"An object from the object-lock enabled bucket can not be modified or deleted unless the retention period is elapsed."

\* This directly matches the behavior of an S3 bucket with WORM retention.

The other options:

- \* A. Bucket name incorrect: Would result in a "NoSuchBucket" or "Not Found" error, not "Method Not Allowed."
- \* C. Object-Level permissions: Insufficient permissions would cause "Access Denied" or "Forbidden," not WORM-specific errors.
- \* D. API key misconfiguration: Would typically produce authentication errors ("SignatureDoesNotMatch," etc.), not a WORM policy restriction.

The NUSA course discusses WORM behavior:

"If WORM is enabled on a bucket, objects cannot be deleted or modified until the retention period expires.

Attempting to do so will generate 'Method Not Allowed' errors."

Thus, the error here is directly caused by WORM retention (Object Lock) being active on the S3 bucket.

## NEW QUESTION # 47

An administrator is concerned that storage in the Nutanix File Server is being used to store personal photos and videos. How can the administrator determine if this is the case?

- A. Examine the File Activity widget in the File Analytics dashboard for the File Server.
- B. Examine the File Distribution by Type widget from the Files Console for the File Server.
- **C. Examine the File Distribution by Type widget in the File Analytics dashboard for the File Server.**
- D. Examine the Usage Summary table for the File Server Container in the Prism Element Storage page.

**Answer: C**

Explanation:

To determine if the Nutanix File Server is being used to store personal photos and videos, the administrator should examine the File Distribution by Type widget in the File Analytics dashboard for the File Server.

Nutanix File Analytics is a monitoring and analytics tool that provides detailed insights into file share activities, including the types of files stored on the file server. The File Distribution by Type widget specifically categorizes files by their extensions (e.g., .jpg, .mp4),

allowing the administrator to identify whether image or video files are present.

The Nutanix Unified Storage Administration (NUSA) course states, "The File Analytics dashboard includes the File Distribution by Type widget, which displays the breakdown of file types stored on the Nutanix File Server, enabling administrators to identify specific file categories such as images or videos." This widget provides a visual representation of file types, making it easy to detect if personal photos (e.g., .jpg, .png) or videos (e.g., .mp4, .avi) are being stored.

The Nutanix Certified Professional - Unified Storage (NCP-US) study guide further elaborates that "File Analytics offers granular visibility into file storage patterns through widgets like File Distribution by Type, which is ideal for identifying unauthorized or non-business-related content, such as personal media files." By accessing this widget in the File Analytics dashboard, the administrator can confirm the presence of photo and video files and take appropriate action, such as setting policies to restrict such content.

The other options are incorrect or insufficient:

\* Examine the Usage Summary table for the File Server Container in the Prism Element Storage page: The Usage Summary table in Prism Element provides high-level storage metrics (e.g., capacity usage) but does not break down data by file type, so it cannot identify photos or videos.

\* Examine the File Activity widget in the File Analytics dashboard for the File Server: The File Activity widget shows file access patterns (e.g., read/write operations) but does not provide details about file types, making it unsuitable for this purpose.

\* Examine the File Distribution by Type widget from the Files Console for the File Server: The Nutanix Files Console is used for managing file servers and shares, but it does not include a File Distribution by Type widget. This widget is specific to the File Analytics dashboard.

The NUSA course documentation highlights that "the File Distribution by Type widget in File Analytics is a key tool for auditing file content, allowing administrators to detect and manage non-compliant or personal files, such as photos and videos, stored on the file server." References:

Nutanix Unified Storage Administration (NUSA) Course, Section on File Analytics: "Using the File Analytics dashboard to monitor file types and storage patterns." Nutanix Certified Professional - Unified Storage (NCP-US) Study Guide, Topic 3: Analyze and Monitor Nutanix Unified Storage, Subtopic: "File Analytics and file type distribution analysis." Nutanix Documentation (<https://www.nutanix.com>), Nutanix File Analytics Guide: "File Distribution by Type widget for file content auditing."

## NEW QUESTION # 48

Question:

Which two minimum permission roles must a non-admin user have to enable Nutanix Objects? (Choose two.)

- A. User Admin
- B. Cluster Admin
- C. Category Admin
- D. Files Admin

**Answer: A,B**

Explanation:

To enable Nutanix Objects (deploy a new Objects instance and manage bucket creation), a non-admin user must have the following minimum permissions:

Cluster Admin:

\* Grants full cluster-level privileges, including resource provisioning, configuration, and management.

\* Required to deploy services like Objects because it interacts with cluster resources directly.

User Admin:

\* Allows user management and security roles necessary for configuring access to Objects.

\* Critical when setting up Object Stores and managing authentication.

According to the NUSA course:

"A non-admin user must have at least the Cluster Admin role and the User Admin role to enable and manage Nutanix Objects deployments. Cluster Admin manages resources, and User Admin manages user-level permissions." The other roles:

Files Admin- manages Nutanix Files only.

Category Admin- relates to category/tag management in Prism, not Objects deployment.

Thus, to enable Nutanix Objects, the user needs Cluster Admin and User Admin permissions.

## NEW QUESTION # 49

Which feature allows for enforcing strict capacity limits for individual users?

- A. Storage Policy with a Hard Storage Capacity Limit
- B. Storage Policy with a Soft Storage Capacity Limit

- C. Quota Policy with a Hard Quota Limit
- D. Quota Policy with a Soft Quota Limit

**Answer: C**

Explanation:

To enforce strict capacity limits for individual users in Nutanix Files, the administrator should use a Quota Policy with a Hard Quota Limit. Nutanix Files supports quota policies to manage storage usage at the user, group, or share level, and a hard quota limit ensures that users cannot exceed the specified capacity, enforcing strict control over storage consumption.

The Nutanix Unified Storage Administration (NUSA) course states, "Nutanix Files supports quota policies with hard limits to enforce strict capacity restrictions for individual users, preventing them from exceeding their allocated storage." A hard quota limit blocks write operations once the user reaches the defined capacity, ensuring compliance with storage restrictions. This is particularly useful for managing storage in multi-tenant environments or ensuring fair resource allocation.

The Nutanix Certified Professional - Unified Storage (NCP-US) study guide further elaborates that "a Quota Policy with a Hard Quota Limit is the recommended approach for enforcing strict capacity limits per user in Nutanix Files, as it denies further writes when the limit is reached." In contrast, a soft quota limit only generates warnings but allows users to exceed the limit, which does not meet the requirement for strict enforcement.

The other options are incorrect:

\* Storage Policy with a Hard Storage Capacity Limit: Storage policies in Nutanix typically apply to data placement or tiering (e.g., in Nutanix Volumes or Objects) and are not used for user-level quotas in Nutanix Files.

\* Quota Policy with a Soft Quota Limit: A soft quota limit only provides warnings when the limit is exceeded, allowing users to continue writing data, which does not enforce strict capacity limits.

\* Storage Policy with a Soft Storage Capacity Limit: Similar to the above, this is not a user-level quota mechanism and does not enforce strict limits.

The NUSA course documentation emphasizes that "Quota Policies with Hard Quota Limits are the primary mechanism in Nutanix Files for enforcing strict capacity limits for individual users, ensuring they cannot exceed their allocated storage." References: Nutanix Unified Storage Administration (NUSA) Course, Section on Nutanix Files: "Configuring quota policies for user storage limits." Nutanix Certified Professional - Unified Storage (NCP-US) Study Guide, Topic 2: Configure and Utilize Nutanix Unified Storage, Subtopic: "Quota management in Nutanix Files." Nutanix Documentation (<https://www.nutanix.com>), Nutanix Files Administration Guide: "Setting hard quota limits for users."

## NEW QUESTION # 50

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