

# NetApp Certified Technology Solutions Professional (NS0-004) Practice Test (Sample)

## Study Guide



**Everything you need from our exam experts!**

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# Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

**Remember:** successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

# How to Use This Guide

**This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:**

## **1. Start with a Diagnostic Review**

**Skim through the questions to get a sense of what you know and what you need to focus on. Your goal is to identify knowledge gaps early.**

## **2. Study in Short, Focused Sessions**

**Break your study time into manageable blocks (e.g. 30 - 45 minutes). Review a handful of questions, reflect on the explanations.**

## **3. Learn from the Explanations**

**After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.**

## **4. Track Your Progress**

**Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.**

## **5. Simulate the Real Exam**

**Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.**

## **6. Repeat and Review**

**Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning. Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.**

**There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly, adapt the tips above to fit your pace and learning style. You've got this!**

## Questions

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- 1. Which NetApp capability moves data to a cloud destination to free local storage space?**
  - A. BlueXP edge caching**
  - B. SVM data mobility**
  - C. BlueXP tiering**
  - D. SLM**
  
- 2. Which of the following is a supported NetApp cloud data storage encryption mechanism?**
  - A. NVE**
  - B. NAE**
  - C. SED**
  - D. OKM**
  
- 3. Which user interface should an administrator use to manage a NetApp storage solution that includes E-Series E2800 controllers?**
  - A. SANtricity System Manager**
  - B. NetApp BlueXP observability**
  - C. NetApp Element software**
  - D. StorageGRID Grid Manager**
  
- 4. Which on-prem NetApp storage system is supported for discovery and management in NetApp BlueXP?**
  - A. E-Series**
  - B. Element clusters**
  - C. Astra Data Store**
  - D. StorageGRID**
  
- 5. Which NetApp technology would migrate inactive data to Amazon S3 to free up on-premises space?**
  - A. BlueXP tiering**
  - B. FlexCache**
  - C. SVM data mobility**
  - D. BlueXP edge caching**

- 6. In a disaster recovery setup using SnapMirror from an AFF system to Cloud Volumes ONTAP, which action breaks the replication relationship to allow destination data access?**
- A. update**
  - B. break**
  - C. resync**
  - D. delete**
- 7. For cloud-based disaster recovery with a fully managed SnapMirror destination, which service should be used?**
- A. Azure NetApp Files**
  - B. NetApp Cloud Volumes Service**
  - C. NetApp Cloud Volumes ONTAP**
  - D. Amazon FSx for NetApp ONTAP**
- 8. Which BlueXP product enables read and write access from remote Windows servers to a centralized datastore?**
- A. BlueXP copy and sync**
  - B. BlueXP edge caching**
  - C. BlueXP tiering**
  - D. Cloud Volumes ONTAP**
- 9. During SAN provisioning, which entity owns the file system?**
- A. Host**
  - B. LUN**
  - C. ONTAP software**
  - D. Volume**
- 10. Which NetApp product provides insights and optimization recommendations for storage across environments?**
- A. BlueXP observability**
  - B. Active IQ**
  - C. ONTAP System Manager**
  - D. Active IQ Unified Manager**

## Answers

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1. C
2. A
3. A
4. A
5. A
6. B
7. D
8. B
9. A
10. B

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## **Explanations**

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**1. Which NetApp capability moves data to a cloud destination to free local storage space?**

- A. BlueXP edge caching**
- B. SVM data mobility**
- C. BlueXP tiering**
- D. SLM**

This question tests the concept of moving data to a cloud destination to reclaim local storage space through tiering. NetApp BlueXP tiering is the capability that automatically relocates data that isn't accessed frequently from on-prem storage to a cloud destination based on policy. By serviceable data placement across tiers, you free up local storage while still allowing access to data when needed (retrieving it from the cloud as required). Other options don't fit this specific cloud-tiering behavior: edge caching focuses on keeping hot data close to users to reduce latency, not on freeing capacity by moving data to the cloud; SVM data mobility moves data between storage virtual machines or clusters, not to cloud storage; SLM is about lifecycle automation and may include tiering, but the explicit cloud-tiering capability described is captured by BlueXP tiering.

**2. Which of the following is a supported NetApp cloud data storage encryption mechanism?**

- A. NVE**
- B. NAE**
- C. SED**
- D. OKM**

NetApp Volume Encryption is the supported cloud data storage encryption mechanism. It is a software-based at-rest encryption built into ONTAP that encrypts data on volumes using AES-256 and relies on external Key Management Server (KMS) services to manage the encryption keys. In cloud deployments, NVE works with cloud KMS options (like AWS KMS, Azure Key Vault, or Google Cloud KMS), enabling centralized key management and rotation without depending on drive-level hardware. Hardware-based encryption on self-encrypting drives isn't the NetApp cloud encryption method, and the other terms aren't the NetApp cloud encryption mechanism. So NetApp Volume Encryption is the correct choice.

**3. Which user interface should an administrator use to manage a NetApp storage solution that includes E-Series E2800 controllers?**

- A. SANtricity System Manager**
- B. NetApp BlueXP observability**
- C. NetApp Element software**
- D. StorageGRID Grid Manager**

The interface to manage E-Series hardware like the E2800 controllers is SANtricity System Manager. This web-based tool is specifically built for E-Series arrays, providing configuration, monitoring, firmware updates, and RAID management in a single interface. The other options serve different NetApp products or purposes: NetApp BlueXP observability focuses on cloud and multi-system observability across NetApp environments, NetApp Element software targets NetApp Element storage arrays, and StorageGRID Grid Manager is for object storage in StorageGRID. So for supervising an environment that includes E-Series controllers, SANtricity System Manager is the correct choice.

**4. Which on-prem NetApp storage system is supported for discovery and management in NetApp BlueXP?**

- A. E-Series**
- B. Element clusters**
- C. Astra Data Store**
- D. StorageGRID**

NetApp BlueXP is designed to discover and manage NetApp storage systems through its connectors, and on-premise discovery is supported for E-Series arrays. The E-Series family integrates with BlueXP to expose inventory, health, and provisioning capabilities directly from the UI, enabling centralized management of those on-prem systems. Other options, such as Element clusters, Astra Data Store, and StorageGRID, operate on different management planes or as different product lines and are not the on-prem storage systems BlueXP discovers and manages today.

**5. Which NetApp technology would migrate inactive data to Amazon S3 to free up on-premises space?**

- A. BlueXP tiering**
- B. FlexCache**
- C. SVM data mobility**
- D. BlueXP edge caching**

Migrating inactive data to Amazon S3 to free up on-premises space is handled by BlueXP tiering. This feature uses policy-driven tiering to move cold or infrequently accessed data from on-prem storage to cloud object storage, such as Amazon S3, freeing local capacity while preserving accessibility. The data is kept in the on-prem system as lightweight pointers or metadata, and when a file is accessed, it is retrieved from S3 automatically, often transparently to the user. This approach enables long-term retention and cost savings without sacrificing data availability. FlexCache focuses on caching frequently accessed data closer to users to improve performance, not moving data to the cloud. SVM data mobility is about moving data between SVMs or clusters, not cloud archiving. BlueXP edge caching caches content at the edge to speed up remote access, rather than tiering data to cloud storage.

**6. In a disaster recovery setup using SnapMirror from an AFF system to Cloud Volumes ONTAP, which action breaks the replication relationship to allow destination data access?**

- A. update**
- B. break**
- C. resync**
- D. delete**

Breaking the SnapMirror relationship is the action that detaches the destination from the source, allowing you to access and use the destination data independently. When you break the relationship, replication stops and the destination becomes a standalone volume that you can mount and use, which is exactly what you need in a disaster recovery scenario where the source may be unavailable or you want to validate or access DR data without ongoing replication. Updating would push changes from source but keep the relationship intact, so replication would continue. Resync would re-sync data if there's divergence but doesn't detach the destination. Deleting would remove the relationship entirely and isn't the controlled method used to gain access to destination data while preserving its contents.

7. For cloud-based disaster recovery with a fully managed SnapMirror destination, which service should be used?
- A. Azure NetApp Files
  - B. NetApp Cloud Volumes Service
  - C. NetApp Cloud Volumes ONTAP
  - D. Amazon FSx for NetApp ONTAP**

SnapMirror needs a destination that runs NetApp ONTAP and can act as a SnapMirror target in the cloud. Amazon FSx for NetApp ONTAP is AWS's fully managed NetApp ONTAP service, designed precisely to provide a cloud-based, fully managed SnapMirror destination. It handles the underlying infrastructure, patching, and scaling, while you configure and manage the replication setup for disaster recovery. The other services either don't offer an ONTAP-based, fully managed destination or require you to manage the ONTAP deployment yourself, so they aren't the ideal fit for a fully managed SnapMirror DR destination.

8. Which BlueXP product enables read and write access from remote Windows servers to a centralized datastore?
- A. BlueXP copy and sync
  - B. BlueXP edge caching**
  - C. BlueXP tiering
  - D. Cloud Volumes ONTAP

BlueXP edge caching is designed to bring data closer to remote sites by caching frequently accessed data from a centralized datastore at those sites. For Windows servers at a remote location, this means read requests can be served quickly from the local edge cache instead of always reaching back to the central storage. Writes are still coordinated with the central datastore, so changes propagate back to the centralized store to keep data consistent. This combination specifically enables responsive read/write access for remote Windows servers to a centralized datastore, with the edge cache handling the latency and bandwidth pressures. Other options don't fit the scenario as well. Copy and Sync focuses on moving or synchronizing data between locations rather than providing ongoing local read/write access to a central store. Tiering moves data between different storage classes, typically within the same system, and doesn't address remote access performance to a centralized datastore. Cloud Volumes ONTAP is the centralized datastore itself, not the BlueXP feature that enables the edge-access pattern.

9. During SAN provisioning, which entity owns the file system?
- A. Host**
  - B. LUN
  - C. ONTAP software
  - D. Volume

In SAN provisioning, the file system lives on the host. A LUN is presented to the host as a block device, and the host OS formats and manages the file system on that device. The storage array (ONTAP) provides and presents the LUN, but it does not own or manage the host's file system. The volume and ONTAP software are involved at the storage layer, not in creating or owning the host's file system, which is created and controlled by the host OS on the LUN.

**10. Which NetApp product provides insights and optimization recommendations for storage across environments?**

- A. BlueXP observability**
- B. Active IQ**
- C. ONTAP System Manager**
- D. Active IQ Unified Manager**

Active IQ is NetApp's cloud-based intelligence platform that gathers telemetry from storage across on-premises, cloud, and hybrid environments and turns it into actionable insights and optimization recommendations. It analyzes performance, capacity, and health trends across multiple systems to suggest right-sizing, upgrade timing, and other guidance that applies to the entire storage footprint, not just a single array. That cross-environment visibility and proactive guidance is what makes it the best fit for providing insights and optimization recommendations across environments. Other options focus on different capabilities: observability tools offer monitoring and visibility but not the same breadth of optimization guidance; a cluster management tool handles day-to-day administration of a single cluster; and centralized multi-cluster management provides governance and automation emphasis rather than the broad, proactive optimization recommendations across multiple environments that Active IQ delivers.

## Next Steps

**Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.**

**As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.**

**If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at [hello@examzify.com](mailto:hello@examzify.com).**

**Or visit your dedicated course page for more study tools and resources:**

**<https://netappnso004.examzify.com>**

**We wish you the very best on your exam journey. You've got this!**

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