

Dell Information Storage and Management Foundations 2023

Certification Description



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Certification Overview

This certification validates the learner's comprehensive understanding of various storage infrastructure components in modern data center environments. It tests the learner's knowledge of storage-related technologies in an increasingly complex IT environment, which is fast changing with the adoption of new technologies in a digital transformation era (Cloud, Edge computing, Big Data, IoT, ML/AI, and 5G). It provides a strong understanding of storage-related technologies such as storage networking technologies (FC SAN, IP SAN, and NVMe over Fabric), intelligent storage systems (block, file, and object), data protection (backup, archive, and replication), and storage infrastructure security and management.

Certification Requirements

To successfully complete this certification, a candidate must:

1. Have a sufficient knowledgebase/skill set through hands-on product experience and/or by consuming the recommended training.
2. Pass the Dell Information Storage and Management Foundations 2023 exam.

Note: These details reflect certification requirements as of February 3, 2024

The Proven Professional Program periodically updates Certifications to reflect technical currency and relevance. Please check the Proven Professional website regularly for the latest information.

Dell Technologies Partners: Achieving a certification validates capability; however, it does not imply authorization to deliver services. Services Competencies provide partners with the ability to deliver services under their own brand or co-deliver with Dell Technologies. Tiered partners are eligible to obtain Services Competencies upon completing the specific requirements outlined in the [Services Competencies Matrix](#). Only partners that have met these requirements should be delivering their own services in lieu of Dell Technologies Services.

Exam Overview

This exam focuses on information storage and management in a modern data center environment. It includes technologies driving digital transformation, intelligent storage systems, software-defined data center, storage networking technologies, and various business continuity options – along with security and management of a storage infrastructure. A limited number of questions refer to product examples that are used in the training to reinforce the knowledge of technologies and concepts.

Exam Topics

Topics likely to be covered on this exam include:

Modern Data Center Infrastructure (18%)

- Describe the data classification, elements of a data center, key characteristics of a data center, and key technologies driving digital transformation
- Explain the cloud characteristics, cloud service models, and cloud deployment models
- Explain the key characteristics of big data, big data analytics, AI/ML, Internet of Things (IoT) architecture, Edge computing, and 5G technologies
- Describe a compute system, storage, connectivity in a data center, and application center
- Describe software-defined data center, modern data center architecture, and options to build a modern data center

Storage Systems (23%)

- Explain the components of an intelligent storage system, and RAID
- Describe storage provisioning and tiering
- Explain the features and components of block, file, object, and unified storage system

Storage Networking Technologies (19%)

- Explain the FC SAN components, FC ports, topologies, link aggregation, and SAN virtualization
- Explain the components and connectivity of iSCSI, FCIP, and FCoE
- Explain the NVMe over Fabrics, Software-defined storage and networking

Backup, Archive, and Replication (24%)

- Describe the information availability measurements and key fault tolerance techniques
- Explain backup granularity, architecture, backup targets, operations, and backup methods
- Describe data deduplication and data archiving solutions architecture
- Describe replication uses, and replication and migration techniques

Security and Management (16%)

- Describe the information security goals, terminologies, various security domains, and threats to a storage infrastructure
- Explain key security controls to protect the storage infrastructure
- Describe the storage infrastructure management functions and processes

The percentages after each topic above reflects the approximate distribution of the total question set across the exam.

Duration

90 minutes

Recommended Training

The following training is recommended for candidates preparing to take this exam.

Please complete [one] of the following courses

Course Title	Course Number	Mode	Available
Information Storage and Management v5	ESOCMD03294	On-Demand	12/10/2021
Information Storage and Management v5	ESOCMS03293	Classroom/ Virtual Classroom	January 2022

Note: These exam description details reflect contents as of February 3, 2024

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