



Announcing DES-1D12 Specialist – Technology Architect, MidRange Storage Solutions Exam Retirement

The **Specialist – Technology Architect, MidRange Storage Solutions Version 2.0** certification (DES-1D12) will be updated on June 9, 2023 by a new certification offering. The new certification is **Dell MidRange Storage Solutions Design 2023** (D-MSS-DS-23)

This certification is a part of the [new](#) Proven Professional framework focused on skill and outcome-based solutions certifications that was announced on February 6th.

How will this impact you?

If you have already taken the aligned training or previously attempted the exam for the **Specialist – Technology Architect, MidRange Storage Solutions Version 2.0** certification, plan to take the DES-1D12 exam by **August 11, 2023**.

- [View the DES-1D12 exam description and practice test »](#)

Once achieved, your credential, Specialist – Technology Architect, MidRange Storage Solutions Version 2.0, will not expire.

If you're just beginning your certification journey, choose one of the new exams that aligns closest with the skills and knowledge you're looking to develop.

- **Dell MidRange Storage Solutions Design 2023** (D-MSS-DS-23) Exam Description and Practice Test Coming Soon »

Specialist - Technology Architect, Midrange Storage Solutions Version 2.0

Certification Description



[Proven Professional Website](#)

Engage with your peers in our [Proven Professional Community](#)

Overview

This Proven Professional certification provides specialist level certification encompassing a strong understanding of Dell EMC Unity and PowerStore midrange storage solutions. This will be a desired certification for those engaged in designing solutions around Dell EMC midrange storage arrays.

This exam focuses on the knowledge needed to position, size and design Dell EMC midrange storage solutions in a customer environment. This includes a detailed understanding of Dell EMC Unity and PowerStore product configurations, features, functionality, best practices, and design considerations.

Certification Requirements

To complete the requirements for this certification you must:

1. Achieve one of the following Associate level certifications*
 - Associate - Information Storage and Management Version 2.0
 - Associate - Information Storage and Management Version 3.0
 - Associate - Information Storage and Management Version 4.0
 - Associate - Information Storage and Management Version 5.0
2. Pass the following Specialist exam on or after February 18, 2022:
 - [DES-1D12 Specialist - Technology Architect, Midrange Storage Solutions Exam](#)

Note: These details reflect certification requirements as of February 18, 2022.

The Proven Professional Program periodically updates certification requirements. *Please check the [Proven Professional CertTracker](#) website regularly for the latest information and for other options to meet the Associate level requirement.

Dell Technologies Partners: Achieving a certification validates capability; however, it does not imply authorization to deliver services. Services Delivery 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 delivery competencies upon completing the specific requirements outlined in the [enablement matrix](#). Only partners that have met these requirements should be delivering their own services in lieu of Dell Technologies Services.

Dell Inc.
Hopkinton
Massachusetts
01748-9103
1-508-435-1000
In North America
1-866-464-7381

DES-1D12 Specialist - Technology Architect, Midrange Storage Solutions Exam

Exam Description



Duration

120 Minutes
(60 Questions)

Pass Score: 60%

Practice Test

Specialist – [DES-1D12](#)

Dell Inc.
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In North America
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Overview

This exam is a qualifying exam for the **Specialist - Technology Architect, Midrange Storage (DCS-TA)** track.

This exam tests the candidate's knowledge to design solutions for Dell EMC Unity and PowerStore. This exam also tests the candidate's knowledge of key product features of both storage systems.

Dell Technologies provides free practice tests to assess your knowledge in preparation for the exam. Practice tests allow you to become familiar with the topics and question types you will find on the proctored exam. Your results on a practice test offer one indication of how prepared you are for the proctored exam and can highlight topics on which you need to study and train further. A passing score on the practice test does not guarantee a passing score on the certification exam.

Products

Products likely to be referred to on this exam include but are not limited to:

- Dell EMC Unity
- Dell EMC PowerStore

Exam Topics

Topics likely to be covered on this exam include:

Dell EMC Midrange Architectures (25%)

- Describe the Unity and Unity XT hardware (e.g., enclosures, I/O components, storage media options)
- Explain Unity and Unity XT storage resources and features (e.g., dynamic pools, RAID functions)
- Describe the PowerStore hardware components and their functions (e.g., controller and expansion enclosures models, I/O expansion modules, internal components)
- Describe the PowerStore resources and features (e.g., caching and data reduction mechanisms, NVMe and SSD options, PowerStore manager GUI)

Dell EMC Midrange Product Solutions (55%)

- Describe how to provision and access Unity storage including Block, Files, and VMware datastores
- Identify Unity advanced features for Block storage (e.g. FAST Suite, D@RE, host I/O limit availability, thin clones)
- Identify Unity advanced features for File storage (e.g. IP Multi-tenancy, Advanced Static Routing, IP Packet Reflect)



- Describe Unity Data Protection (e.g., Snapshots, Replication, and Snapshot Replication architecture) solutions and use cases
- Describe Unity Data Mobility features, requirements, and use cases
- Describe PowerStore Data Services and how to provision and access storage via Block, Files, and VMware datastores
- Describe the PowerStore load and resource balancing capabilities and PowerStore replication capabilities
- Describe PowerStore Data Protection and Data Security (e.g., Snapshots, Consistency Groups, Thin Clones) features and use cases
- Describe PowerStore HA features, non-disruptive upgrades and migration options requirements and use cases
- Compare and contrast similar features between Unity and PowerStore solutions

Dell EMC Midrange Best Practices, Sizing, and Design (20%)

- Apply Dell EMC midrange best practice recommendations for data service, system, storage, and host application configurations
- Describe sizing and design considerations
- Describe sizing and design methods
- Describe the tools and resources available to size and design solutions

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

Recommended Training

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

Dell Technologies Employees:

Please complete the following course

Course Title	Course Number	Mode	Available
Midrange Storage Concepts, Features, and Design	ES502STG01737	On Demand	3/5/2021

Dell Technologies Partners:

Please complete the following course

Course Title	Course Number	Mode	Available
Midrange Storage Concepts, Features, and Design	ES502STG01737	On Demand	2/18/2022

Note: These exam description details reflect content as of **February 18, 2022**.



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

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