



Specialist - Technology Architect, PowerScale Solutions Version 4.0

Certification Description



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Certification Overview

This Proven certification provides specialist level certification for those working to design and size an Isilon solution for a particular customer workflow. This is focused on sales and architect partners and internals to understand the details of the Isilon solution, and the capabilities and particulars of designing a clustered NAS solution.

Certification Requirements

To complete the requirements for this certification you must:

1. Achieve one of the following 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
 - Specialist - Technology Architect, Isilon Solutions Version 3.0
2. Pass the following Specialist exam
 - [E20-555 Specialist – Technology Architect, Isilon Solutions and Design Exam](#)

Note: These details reflect certification requirements as of February 07, 2020.

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.

Other Certification Recommendations

Once you have achieved this Certification you may be interested in:

- [Expert - PowerScale Solutions](#)

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



E20-555 Specialist - Technology Architect, Isilon Solutions and Design Exam

Exam Description



Overview

This exam is the qualifying exam for **Specialist - Technology Architect, PowerScale Solutions (DCS-TA)** certification.

This exam focuses on architectural and design principles that facilitate providing a solution that meets customer requirements. This exam covers the following: Isilon scaled-out storage platform opportunities, data integrity, role-based administration, caching, identification, authentication, and architecture, performance, tiering, and data protection, Isilon software, requirements gathering, architectural and implementation considerations, sizing guidelines, horizontal and vertical markets, and their sizing considerations.

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.

Duration

120 Minutes
(~60 Questions)

Pass Score: 60

Practice Test

Exam - [E20-555](#)

Products

Concepts likely to be referred to on this exam include but are not limited to the topic and features through:

- OneFS v8.x
- Isilon Generation 6 Hardware

Exam Topics

Topics likely to be covered on this exam include:

Isilon Infrastructure (20%)

- Describe the nature and use of Isilon nodes, components, node pools, and node compatibilities
- Describe the nature and use of latency, sequential versus random access, and enduring cache
- Describe the nature of Isilon networking, Access Zones, and use of SmartConnect

Isilon Management, Identity Management, and Advanced Applications (47%)

- Describe how to determine when to use SnapshotIQ when snapshots are not recommended
- Describe data requirements regarding SmartPools, File Pools, and CloudPools

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- Describe data requirements regarding SyncIQ, SmartQuotas, SmartDedupe, Antivirus, and SmartLock
- Describe the client access, client permissions and client protocol access on the Isilon cluster
- Describe the nature and use of job engines
- Describe the nature and use of RBAC and ZRBAC
- Describe journaling, file striping, data protection, metadata, and caching
- Describe replication and recovery

Solution Design Process (7%)

- Describe the information requirements for designing an Isilon solution, including determining hardware and software capacity, file server consolidation, file size considerations, performance sizing impact, data types, and I/O characteristics

Sizing Considerations (18%)

- Describe how data availability and protection are implemented and measured on an Isilon cluster.
- Describe how disk space is utilized for small and large files and its effects on protection overhead.
- Describe how I/O patterns and latency requirements impact workflows on the Isilon cluster
- Describe the challenges and considerations for configuring backup and archive workflows

Workload Analysis Tools (8%)

- Describe the cluster monitoring with InsightIQ and isi statistics
- Describe the nature and appropriate use of workflow analysis tools: iostat, iperf, tcpdump, Wireshark, NFSstat

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.

Please complete all of the following courses

Course Title	Course Number	Mode	Available
PowerScale Concepts	ES131STG01028	eLearning	6/5/19

Please complete one of the following courses

Course Title	Course Number	Mode	Available
PowerScale Solution Design: Platform Architecture	ES532STG01056	eLearning	10/15/19
PowerScale Solution Design: Data Protection	ES502STG01256	eLearning	10/15/19
PowerScale Solution Design: Networking	ES502STG01279	eLearning	10/15/19
PowerScale Solution Design: Data Management	ES502STG01280	eLearning	10/15/19



PowerScale Solution Design: Replication and Recovery	ES502STG01281	eLearning	10/15/19
PowerScale Solution Design: Cluster Access	ES502STG01282	eLearning	10/15/19
PowerScale Solution Design: Monitoring	ES502STG01283	eLearning	10/15/19
PowerScale Solution Design: Verticals	ES502STG01284	eLearning	10/15/19

Note: These exam description details reflect contents as of **June 16, 2020**.

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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