



# Specialist - Technology Architect, PowerScale Solutions Version 4.0

## Certification Description



[Proven Professional Website](#)

[Education Services Community](#)

### 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
  - 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 endurant 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

### Dell Inc.

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



- 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:<br>Replication and Recovery | ES502STG01281 | eLearning | 10/15/19 |
| PowerScale Solution Design:<br>Cluster Access           | ES502STG01282 | eLearning | 10/15/19 |
| PowerScale Solution Design:<br>Monitoring               | ES502STG01283 | eLearning | 10/15/19 |
| PowerScale Solution Design:<br>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.

Copyright © 2020 Dell Inc. or its subsidiaries. All Rights Reserved. Dell Technologies, Dell, EMC, Dell EMC and other trademarks are trademarks of Dell Inc. or its subsidiaries. Other trademarks may be trademarks of their respective owners. Published in the USA [06/20] [Exam Description].

Dell Technologies believes the information in this document is accurate as of its publication date. The information is subject to change without notice.