

## Expert - PowerScale Solutions

### Certification Description



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#### Certification Overview

This certification validates the candidate is an expert on the Dell EMC PowerScale scale-out storage platform solution and its application into a variety of advanced customer environments including advanced networking configurations, systems integrations, security and data protection protocols.

#### Certification Requirements

To complete the requirements for this certification you must:

1. Achieve one of the following Specialist level certifications\*
  - Specialist – Implementation Engineer, PowerScale Version 3.0
  - Specialist – Implementation Engineer, Isilon Solutions Version 2.0
  - Specialist – Systems Administrator, Isilon Solutions Version 2.0
  - Specialist – Technology Architect, PowerScale Solutions Version 4.0
  - Specialist – Technology Architect, Isilon Solutions Version 3.0
  - Specialist – Technology Architect, Isilon Solutions Version 2.0
2. Pass the following Specialist exam on or after February 05, 2021:
  - [DEE-1421 Expert - Isilon Solutions Exam](#)

Note: These details reflect certification requirements as of **February 05, 2021**.

#### Certification Validity

This Dell Technologies Expert certification has a three-year validity. Within that three-year window, the credential is considered active. Please refer to the Policies and Procedures document on the Dell EMC Proven Professional website for more information.

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.

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## DEE-1421 Expert - Isilon Solutions Exam

### Exam Description



#### Part 1:

##### Duration

90 Minutes  
(54 Questions)

##### Passing Score

60%

#### Part 2:

##### Duration

30 Minutes  
(6 Simulations)

##### Passing Score

67%

A passing score is required on **both** parts of this exam.

##### Practice Test

Exam – [DEE-1421](#)

##### Simulator Demo

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#### Overview

This exam is a qualifying exam for the **Expert - PowerScale Solutions (DCE)** track. This exam has two parts, a passing score is required on both parts.

- Part 1 consists of knowledge and experience-based questions
- Part 2 consists of performance-based simulations

The focus of this exam is on advanced environments and workflows where a PowerScale scale-out NAS platform can be applied. Advanced networking configurations, systems integrations, security and data protection protocols are all examined as components of an appropriate PowerScale solution. Students are expected to have a deep understanding of not only course material, but of documented best practices and administration guides as well as field experience working with the PowerScale product.

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:

- OneFS v 9.0
- InsightIQ 4.0
- PowerScale Gen 6.x
- DataIQ 2.0

#### Exam Topics

Topics likely to be covered on this exam include:

##### Concepts (13%)

- Describe Disaster Recovery (DR), DR plans, and disaster resilience
- Describe the OneFS domains, system management troubleshooting tools, and methodologies
- Describe the Job Engine architecture, job types, priorities, impact, and Job Engine management

##### Advanced Access (22%)

- Discuss the networking architecture, including access zones, LACP, VLAN, network routing (Static and SBR)
- Design multi-tenancy solutions, including implementing groupnets, access zones, networks, DNS, authenticators, and applying namespaces
- Assess supported authentication providers and methods, including variants of Kerberos (such as AD RFC-2307, NIS, User and ID mapping, and LDAP plus share and directory), Local and File Provider, and MFA
- Configure data access protocols, including NFSv3, NFSv4, SMB3, S3, HTTP, FTP, advanced settings, and protocol security

##### Advanced Authorization and OneFS Reporting (15%)

- Manage multiprotocol permissions and user identity mapping
- Configure OneFS features for system monitoring, including alerts, events, syslog, SNMP, CEE, and related isi commands
- Design and analyze reporting mechanisms, including notifications, SMTP, log files, and protocol auditing

### **OneFS Storage Efficiency and Services (20%)**

- Design and implement SmartQuotas
- Design and implement SnapshotIQ
- Discuss Small File Storage Efficiency (SFSE) and Antivirus integration provided by OneFS
- Plan and implement data migrations, including migration methodologies and permissions
- Describe SyncIQ architecture, policies, jobs, and management

### **Disaster Recovery Solutions (17%)**

- Design data recovery solutions, including SyncIQ and Deep Copy, Snapshots, failover and failback, and third-party applications (for example, Superna)
- Implement NDMP
- Implement Cloud and Virtual Strategies, including CloudPools, and their integration with other cloud platforms (for example, ECS)

### **Performance and Monitoring (13%)**

- Analyze workflow impact to define and implement data access acceleration (non-sequential data flow, streaming media, file system protection settings, and configuration design)
- Describe how to use cluster performance analysis tools, including DataIQ, InsightIQ, and HealthCheck
- Analyze the root cause of performance issues and evaluate cluster performance metrics, including performance benchmarks

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

### **Recommended prior hands-on experience**

Candidates taking this exam are recommended to have 4 – 5 years' experience in complex PowerScale storage environments. Candidates should possess a comprehensive PowerScale skillset including design, operations, file system management, data protection, access, migration, system integration, troubleshooting, and performance tuning. In addition, candidates should have experience architecting and deploying the PowerScale technology as a solution in multiple large-scale environments.

### **Recommended Training**

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

#### **Please complete any one of the following courses**

Course Title	Course Number	Mode	Available
PowerScale Advanced Administration	ES103STG01979	Classroom	11/2020
PowerScale Advanced Administration	ES103STG01980	Virtual Classroom	11/2020



Note: These exam description details reflect contents as of **February 05, 2021**.

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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