Expert - PowerScale Solutions

Certification Description

Proven Professional Website

Education Services Community

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, Isilon Solutions Version 3.0
   - Specialist – Implementation Engineer, Isilon Solutions Version 2.0
   - Specialist – Implementation Engineer, Isilon Solutions Version 1.0
   - Specialist – Systems Administrator, Isilon Solutions Version 2.0
   - Specialist – Systems Administrator, Isilon Solutions Version 1.0
   - 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 August 24, 2018:
   - DEE-1421 Expert - Isilon Solutions Exam

Note: These details reflect certification requirements as of **August 24, 2018.**

Certification Validity

This Dell Technologies Expert certification has a two-year validity. Within that two-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 Inc.
Hopkinton
Massachusetts
01748-9103
1-508-435-1000
In North America
1-866-464-7381

DEE-1421 Expert - Isilon Solutions Exam

Exam Description

Part 1:

Duration
90 Minutes
(55 Questions)

Passing Score
60%

Part 2:

Duration
30 Minutes
(5 Simulations)

Passing Score
60%

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 v8.1
- InsightIQ 3.0
- Isilon Generation 5 Nodes
- Isilon Generation 6 Nodes

Exam Topics

Topics likely to be covered on this exam include:

Networking (16%)

- Define network routing (for example, source-based and static), Groupnets, IP subnets, and pools
- Design connectivity and assess the topology (for example, NANON)
- Design and configure advanced networking: LACP, VLAN, MTU, vPC, Trunk and Access, and MLAG
- Assess common network services (for example, DNS, NTP, and remote support)

Tenancy, Access Management, Protocols, and Security (20%)

- Design and define multi-tenancy solutions including implementing groupnets, Access zones, networks, DNS, authenticators, and applying namespace design
- Assess and design access management including AIMA (authentication and identity management and authorization), variants of Kerberos (such as AD RFC-2307, NIS, User and ID mapping, and LDAP plus share and directory), and RBAC
- Identify and design protocol configurations including NFSv3, NFSv4, SMB 1.0, SMB 2.1, SMB 3.0, ACL and POSIX, advanced protocol settings, and

protocol security
- Assess and implement security requirements including system hardening policies, security persistence, and compliance

Storage Management, Compliance, and Data Migrations (15%)
- Analyze and evaluate storage management requirements including on-premise and off-premise (for example, CouldPools, ECS, Azure, Amazon) and data life cycle management
- Plan, assess, implement data migrations including migration methodologies (for example, DobiMigrate, technology refresh) and permissions

Performance Management (14%)
- Analyze workflow impact to define and implement data access acceleration (non-sequential data flow, streaming media, file system protection settings, and configuration design)
- Assess network performance including client protocol configurations and optimization
- Analyze the root cause of performance issues and evaluate cluster performance metrics

Data Protection and Recovery (14%)
- Design data replication solutions including SyncIQ and Deep Copy, Snapshots, failover and failback, and third-party applications (for example, Superna)
- Identify WORM variants including Compliance mode, Enterprise mode, and SmartLock
- Implement NDMP

System Management (11%)
- Assess and recommend data protection level, L3 Cache, SSD, and file pool policies
- Apply system management troubleshooting tools, methodologies and design systems monitoring including alerts, events, notifications, syslog, CEE and isi commands

Systems Integration (10%)
- Gather and analyze data to determine the various system(s) requirements

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	MR-1CN-ISIAA3D	Classroom	03/2018
PowerScale Advanced Administration	MR-1LN-ISIAA3D	Virtual Classroom	03/2018
PowerScale Advanced Administration	MR-1TN-ISIAA3D-0518	On-Demand Video	03/2018
Please complete any one of the following courses			
PowerScale Advanced Disaster Recovery	MR-1CN-ISIDR	Classroom	03/2018
PowerScale Advanced Disaster Recovery	MR-1LN-ISIDR	Virtual Classroom	03/2018
PowerScale Advanced Disaster Recovery	MR-1TN-ISIDR-0518	On-Demand Video	03/2018

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.