Specialist - Implementation Engineer, Avamar Version 8.0
Certification Description

Certification Overview
This exam will benefit any Implementation Engineer and/or Avamar professional implementing or managing the Avamar product. The learning path focuses on fundamental Avamar concepts, Avamar Data Store installation and configuration, the Avamar Virtual Edition solution and the Avamar NDMP. This exam also covers the Avamar integration with EMC Data Domain, database/e-mail/clustered applications, NDMP, and virtual environments.

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 1.0
   - 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 - Backup Recovery Version
   - Associate - Data Protection and Management Version 1.0

2. Pass the following Specialist exam on or after June 28, 2019:
   - E20-594 Specialist - Implementation Engineers, Avamar Exam

Note: These details reflect certification requirements as of June 28, 2019.

*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 – Implementation Engineer, Avamar Expert Version 8.0
- Specialist – Implementation Engineer, NetWorker Version 7.0
- Specialist – Implementation Engineer Data Domain Version 2.0

Dell Inc.
Hopkinton
Massachusetts
01748-9103
1-508-435-1000
In North America
1-866-464-7381
E20-594 Specialist – Implementation Engineer, Avamar Exam

Exam Description

Overview
This exam is a qualifying exam for the Specialist - Implementation Engineer, Avamar (DCS-IE) track.

This exam focuses on ensuring individuals are knowledgeable in Avamar concepts and terminology. The exam requires the successful candidate to demonstrate the knowledge required to implement and configure an Avamar backup solution in single and multi-node environments. This exam covers supported Avamar configurations and editions, including Avamar Data Store and Avamar Virtual Edition. In addition, Avamar integration with database applications, NDMP and clustered environments are covered in the exam.

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:

- Avamar v18.2 software
- Avamar Data Store Gen4T
- Avamar Virtual Edition v18.2
- Avamar NMDP Accelerator

Exam Topics
Topics likely to be covered on this exam include:

**Avamar Fundamentals (15%)**
- List Avamar features and functionality
- Illustrate Avamar system architecture, components and processes
- Describe Avamar server daily maintenance activities (for example: HFS checks, checkpoints, and garbage collection)

**Avamar Virtual Edition (10%)**
- Explain Avamar Virtual Edition solutions

**Avamar Data Store Hardware Installation (10%)**
- Describe Dell EMC Data Store solutions
- Install Avamar Data Store hardware

**Avamar Installation and Configuration (27%)**
- Demonstrate considerations for building an Avamar server (for example:
hardware requirements, sizing, and utilities
  * Install Avamar systems (for example: RAIN, non-RAIN)
  * Demonstrate the Avamar system migration process
  * Conduct the node replacement and node addition processes

**Avamar Management (38%)**
  * Identify Avamar tools for system monitoring, maintenance, and capacity management
  * Configure and perform backups and restores
  * Configure and run Avamar replication solutions
  * Identify best practices for configuring an Avamar backup environment (for example: scheduling)
  * Explain and conduct Avamar server daily maintenance activities (for example: HFS checks, checkpoints, and garbage collection)
  * Integrate Avamar with Data Domain, database/e-mail/clustered applications, NDMP, and Virtual environments

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**

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<th>Course Title</th>
<th>Course Number</th>
<th>Mode</th>
<th>Available</th>
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<tr>
<td>Avamar Data Store Hardware Installation</td>
<td>MR-7WP-ADS</td>
<td>eLearning</td>
<td>04/04/17</td>
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<tr>
<td>Avamar Virtual Edition Overview</td>
<td>MR-1WN-AVAM136</td>
<td>eLearning</td>
<td>01/17/19</td>
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<td>Instructor-Led</td>
<td>04/04/19</td>
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The following courses are not a formal part of this exam but are recommended for practical experience and application of the design concepts covered in the curriculum:

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<tr>
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<td>Avamar Installation and Configuration On-Demand Lab</td>
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<td>On-Demand Lab</td>
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Note: These exam description details reflect contents as of **June 28, 2019**.

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