



## Announcing E20-385 – Specialist – Implementation Engineer, Data Domain Exam Retirement

The **E20-385 exam** that supports the Specialist - Implementation Engineer, Data Domain Version 2.0 certification **will retire on April 01, 2021**. This exam will be replaced by the new **DES-DD23** aligning to the 'Specialist – Implementation Engineer, PowerProtect DD Version 3.0' certification **available as of April 02, 2021**. This will include a revision of the Specialist-level **credential version from 2.0 to 3.0**.

The DES-DD23 exam and certification cover the PowerProtect DD concepts, features, implementation and administration, and integration with other products.

### How will this impact me?

If you have taken the *Data Domain System Administration* course, please plan to take the **E20-385** exam before **April 02, 2021**.

- [View the E20-385 exam description and practice test »](#)
- [View the DES-DD23 exam description and practice test \(coming soon, Exam open for pre-registration now\)](#)  
»

Your credential 'Specialist - Implementation Engineer, Data Domain Version 2.0' once achieved, will not expire. As a certified Dell Technologies Proven Professional, you will continue to gain access to exclusive program benefits.

## Specialist - Implementation Engineer, Data Domain Version 2.0

### Certification Description



[Proven Professional Website](#)

[Education Services Community](#)

#### Overview

This Proven Certification provides specialist level certification for implementation of Data Domain systems and will be the desired certification and/or requirement for Partners and employees engaged in implementing Data Domain.

#### 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
  - Associate - Data Protection and Management Version 1.0
2. Pass the following Specialist exam on or after June 14, 2019:
  - [E20-385 Specialist – Implementation Engineer, Data Domain Exam](#)

Note: These details reflect certification requirements as of June 14, 2019.

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.

#### Other Certification Recommendations

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

- [Specialist – Implementation Engineer, NetWorker Version 8.0](#)
- [Specialist – Implementation Engineer, Avamar Version 9.0](#)

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## E20-385 Specialist - Implementation Engineer, Data Domain Exam

### Exam Description



#### Overview

This exam is a qualifying exam for the **Specialist - Implementation Engineer, Data Domain (DCS-IE)** Certification.

This exam focuses on installation, integration, and administration of Dell EMC Data Domain systems.

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:

- Data Domain Operating System 6.1 & 6.2
- Data Domain Management Console 6.2
- Data Domain Virtual Edition 4.0

#### Exam Topics

Topics likely to be covered on this exam include:

##### Data Domain Fundamentals (15%)

- Explain the key differentiators of the Dell EMC Data Domain deduplication technology, including SISL, DIA, In-line versus Post Process deduplication, and file versus block storage.
- Identify typical Dell EMC Data Domain backup and recovery solutions and describe Dell EMC Data Domain product positioning.
- Identify and describe various Dell EMC Data Domain software options and the functionality they enable.

##### Data Domain Hardware Installation (15%)

- Describe how to prepare the Dell EMC Data Domain system for installation, including rail and rack the system hardware, and connect and cable the system to external storage.
- Describe how to perform the initial configurations of the Dell EMC Data Domain system; configure the network for administrative access, and verify interoperability with connected devices.

##### Data Domain Extended Retention: Installation, Configuration, and Administration (10%)

#### Duration

90 Minutes  
(60 Questions)

Pass Score: 63

#### Practice Test

Specialist – [E20-385](#)

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- Describe DD Extended Retention features, benefits, and use cases. Describe basic architecture for systems with the DD Extended Retention option and DD Extended Retention licensing requirements.
- Describe how to install and configure Dell EMC Data Domain systems with DD Extended Retention; including system racking and cabling, configuration of the active and archive tiers, establishment of data movement policies and upgrading the system.
- Describe how to perform administrative tasks on Dell EMC Data Domain systems with the DD Extended Retention option, including adding and expanding storage, adjusting compression settings, deleting or reusing storage units, configuring replication and disaster recovery.

## **Data Domain Cloud Tier Installation, Configuration, and Administration (10%)**

- Describe DD Cloud Tier features, benefits, and use cases. Describe basic architecture for systems with the DD Extended Retention option and DD Extended Retention licensing requirements.
- Describe how to install and configure Dell EMC Data Domain systems with DD Cloud Tier; including system racking and cabling, configuration of the active and archive tiers, establishment of data movement policies and upgrading the system.
- Describe how to perform administrative tasks on Dell EMC Data Domain systems with the DD Cloud Tier option, including adding and expanding storage, adjusting compression settings, deleting or reusing storage units, configuring replication and disaster recovery.

## **Data Domain Implementation in Backup Environments and Integration with Application Software (15%)**

- Distinguish between key backup software components. Recognize the packet flow in a typical backup environment with and without a Dell EMC Data Domain system. Describe key information points for a backup and recovery solution using Data Domain Boost/OST technology.
- Implement the Data Domain system as a CIFS or NFS to a backup server running Veritas NetBackup and/or Backup Exec, Dell EMC NetWorker, CommVault Simpana, and IBM Spectrum Protect. Validate the backup and recovery functionalities.
- Implement and validate the Data Domain system as a VTL. Implement and validate Data Domain Boost in Veritas NetBackup and Backup Exec environments, Oracle Recovery Manager (RMAN) environments, as well as in Dell EMC NetWorker and Dell EMC Avamar environments.
- Implement best practices and system tuning procedures for optimal performance of backup environments including integrated EMC Data Domain systems.

## **Data Domain System Administration (35%)**

- Implement Dell EMC Data Domain system with key protocols, including NFS/CIFS, DD Boost, VTL, and NDMP.
- Implement Dell EMC Data Domain system with key technologies, including data security, link aggregation/failover, fibre channel connections, secure multi-tenancy, DDMC, snapshots, fastcopy,

retention lock, sanitization, encryption, storage migration, replication, and recovery functionalities.

- Manage system access, describe and configure autosupport, Support bundle, SNMP, Syslog, monitor system activity and performance, and evaluate the cleaning frequency.
- Verify hardware, analyze and interpret space utilization and compression graphs. Monitor Data Domain capacity and storage burn rate.

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 as of
PowerProtect DD and Data Domain Concepts and Features	MR-1WP-DDFUND	eLearning	9/23/2019
Data Domain Implementation with Application Software	MR-1WP-DDIAS	eLearning	4/19/2019
Data Domain Extended Retention – Installation Configuration and Administration	MR-1WP-DDEXRET	eLearning	8/10/2017
Data Domain Cloud Tier Implementation and Management	MR-1WP-DDCTIM	eLearning	5/14/2019
PowerProtect DD and Data Domain Hardware Installation	MR-1WP-DDHINSTL	eLearning	9/13/2019

#### Please complete one of the following courses

Course Title	Course Number	Mode	Available as of
Data Domain System Administration	MR-1CP-DDSADMIN	ILT	4/28/2019
Data Domain System Administration – Online ILT	MR-1LP-DDSADMIN	Online ILT	4/28/2019
Data Domain System Administration – Video ILT	ES152DPS00685	On Demand Video	21/11/2019

Note: These exam description details reflect contents as of **November 21, 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.

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