Announcing E20-368 Specialist - Implementation Engineer, XtremIO Solutions Retirement

The Specialist - Implementation Engineer, XtremIO Solutions certification (E20-368) will be retired on February 2, 2024 and transition from a Certification Exam to an Achievement Assessment. The new Achievement credential is **Dell XtremIO Deploy** (D-XTR-DY-A-24)

This Achievement credential is focused on knowledge of key concepts, strategies and solutions.

How will this impact you?

If you have already taken the aligned training or previously attempted the exam for the Specialist - Implementation Engineer, XtremIO Solutions certification, plan to take the E20-368 exam by **January 31, 2024.**

- [View the E20-368 exam description and practice test »](#) Once achieved, your credential, Specialist - Implementation Engineer, XtremIO Solutions, will not expire.

If you're just beginning your credential journey after February 3, 2024, please choose this Assessment that aligns closest with the knowledge you're looking to develop.

- **Dell XtremIO Deploy** (D-XTR-DY-A-24)

DELLTechnologies

Specialist - Implementation Engineer, XtremIO Solutions Version 2.0
Certification Description

[Proven Professional Website](#)

Engage with your peers in our [Proven Professional Community](#).

Overview
This training and certification enables and qualify the professionals to install and implement solutions using XtremIO and X2 systems. The certification is supported by a core curriculum describing the critical components of the XtremIO and X2 systems, their features, and implementing the solutions in customer 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 - Information Storage and Management Version 5.0

2. Pass the following Specialist exam on or after June 14, 2019:
   - [E20-368 Specialist – Implementation Engineer, XtremIO Solutions 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.

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

DELL Technologies

E20-368 Specialist – Implementation Engineer, XtremIO Solutions

Exam Description

Duration
105 Minutes
(~60 Questions)

Pass Score: 63

Practice Test
Exam – E20-368

Dell Inc.
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Overview

This exam is a qualifying exam for the **Specialist - Implementation Engineer, XtremIO Solutions (DCS-IE)** track.

This exam focuses on the knowledge and activities involved in implementing XtremIO storage systems in heterogeneous virtualized open systems environments. This includes cluster installation and initial configuration, implementing and configuring host access to storage, implementing local replication, performance monitoring and optimization, and basic troubleshooting.

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:

- XtremIO X2, XIO/XMS v6.2

Exam Topics

Topics likely to be covered on this exam include:

XtremIO X1 and X2 Hardware Fundamentals (9%)
- Identify and describe the XtremIO X1 and X2 hardware components, cluster offerings, and FRUs
- Identify and describe the hardware components and FRUs

XtremIO X1 and X2 Installation (23%)
- Identify, describe, and compare the required documentation involved in XtremIO X1 and X2 installations; including the specific order in which the documents should be used
- Identify and describe the individual XtremIO X1 and X2 cluster cabling requirements as well as compare and contrast single versus multi-cluster cable requirements
- Identify and describe the logical order of XtremIO X1 and X2 installation operations after cabling has been completed, up to cluster format
- Identify and describe the XtremIO X1 and X2 post installation procedures and processes

- Identify and describe how to power on, configure, and validate cluster connectivity and the overall status

XtremIO X1 and X2 Initial Configuration (16%)
- Explain the XtremIO X1 and X2 Management Server (XMS) installation options, requirements, and deployment considerations
- Identify and describe the purpose of the software components required in an XtremIO X1 and X2 installation
- Identify and describe the XtremIO X1 and X2 communication connectivity options (ESRS, FTPS, e-mail)
- Identify and describe how to initialize and register the XtremIO X1 and X2 cluster in the Install base

XtremIO X1 and X2 Management (38%)
- Identify and describe XtremIO X1 and X2 storage management operations (GUI,CLI, REST); including user accounts, methods of access
- Identify and describe XtremIO X1 and X2 volume operations
- Identify and describe the XtremIO X1 and X2 host configuration requirements
- Explain the specific Microsoft Windows host configuration requirements in XtremIO X1 and X2 environments
- Explain the specific VMware and Linux host configuration requirements in XtremIO X1 and X2 environments
- Describe XtremIO X1 and X2 Snapshot configurations, uses, and limits
- Identify and describe XtremIO X1 and X2 Data Services benefits and integration features
- Identify and describe XtremIO X1 and X2 performance considerations and reporting abilities

XtremIO X1 and X2 Solution Integration (14%)
- Identify and describe XtremIO X1 and X2 RecoverPoint, VPLEX, and AppSync options, considerations, limitations, and specific uses cases
- Explain the Oracle, VDI, XtremIO X1 and X2 challenges, best practices, and deployment considerations
- Describe the XtremIO X1 and X2 GUI, and CLI cluster state options, power procedures, and IP modification considerations

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 the following courses as needed to complete the prerequisite knowledge

Please complete all of the following courses

Course Title	Course Number	Mode	Available
XtremIO Fundamentals	MR-1WP-XIOFUND	eLearning	6/14/16
XtremIO X2 Fundamentals	MR-1WP-XIO2FUND	eLearning	8/14/17

XtremIO X2 Concepts	ES132STG00573	eLearning	5/02/19
XtremIO X2 Architecture	ES132STG00572	eLearning	5/02/19
XtremIO X2 Features	ES132STG00574	eLearning	5/02/19
XtremIO X2 Integration	ES132STG00575	eLearning	5/02/19
XtremIO X2 Administration	ES132STG00576	eLearning	5/02/19
XtremIO Hardware Fundamentals	MR-7WP-XIOHWFUN	eLearning	6/15/16
XtremIO X2 Hardware Concepts and Features	MR-7WP-XIO2HWFUN	eLearning	5/02/19
XtremIO Installation	MR-7WP-XIOINSTL	eLearning	6/20/16
XtremIO X2 Installation	MR-7WP-XIO2INSTL	eLearning	8/16/17
XtremIO Initial Configuration	MR-7WP-XIOINITC	eLearning	6/21/16
XtremIO X2 Initial Configuration	MR-7WP-XIO2INITC	eLearning	8/16/17

Please complete one of the following courses

Course Title	Course Number	Mode	Available
Optimizing Storage Services for Applications with XtremIO and X2	MR-1CP-XIO4APPS	ILT	5/20/19
Optimizing Storage Services for Applications with XtremIO and X2 – Online ILT	MR-1LP-XIO4APPS	Online-ILT	5/20/19
Optimizing Storage Services for Applications with XtremIO and X2 – Video ILT	MR-1TP-XIO24APPS	Video ILT-Stream	9/27/19

Note: These exam description details reflect contents as of **June 14, 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.

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