



Storage Administrator, Symmetrix Solutions Specialist Version 7.0 (EMCSA)

Certification Description



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Certification Overview

Benefits storage administrators responsible for the management of Symmetrix VMAX 1/2 arrays in heterogeneous open systems and virtual environments. Solutions include initial configuration of ports, pools and devices, storage provisioning, FAST, and business continuity operations using TimeFinder, SRDF and Open Replicator.

Certification Requirements

To complete the requirements for this certification you must:

1. Achieve one of the following Associate level certifications:
 - Information Storage Associate (EMCISA)
 - Information Storage Associate Version 2 (EMCISA)
 - Information Storage Associate Version 3 (EMCISA)
2. Pass the following Specialist exam on or after December 6, 2013:
 - [E20-517 Symmetrix Solutions Specialist Exam for Storage Administrators](#)

Note: These details reflect certification requirements as of **December 6, 2013**.

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 EMC
Hopkinton
Massachusetts
01748-9103
1-508-435-1000
In North America
1-866-464-7381



E20-517 Symmetrix Solutions Specialist Exam for Storage Administrators

Exam Description



Duration

90 Minutes
(60 Questions)

Pass Score: 63

Practice Test

Exam - [E20-517](#)

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Overview

This exam is a qualifying exam for the **Storage Administrator, Symmetrix Solutions Specialist (EMCSA)** certification.

This exam focuses on the management of EMC Symmetrix VMAX 1/2 based solutions in heterogeneous open systems environments and virtual environments using Solutions Enabler, TimeFinder, SRDF, Unisphere for VMAX, EMC Open Replicator, and Federated Live Migration applications.

EMC 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:

- VMAX 1/2 with Enginuity 5876 Q2 2013 SR
- Solutions Enabler
- FAST
- FTS
- TimeFinder Product Suite
 - TimeFinder/Clone
 - TimeFinder/Snap
- SRDF Product Suite
 - SRDF/S
 - SRDF/A
 - SRDF/AR
- Open Replicator Federated Live Migration

Exam Topics

Topics likely to be covered on this exam include:

Open Replicator and Federated Live Migration (10%)

- Describe Open Replicator features and perform Open Replication Operations
- Provide an overview of FLM and describe the steps to perform a live migration
- Describe the Symmetrix RecoverPoint Splitter and list the supported Open Replicator modes for RecoverPoint

Unisphere for VMAX (10%)

- Describe Unisphere for VMAX functionality and architecture
- Install and Configure Unisphere for VMAX and perform Administrative Tasks
- Navigate the Unisphere for VMAX interface
- Perform VMAX 1/2 Configuration and Business Continuity Operations with Unisphere for VMAX

Solutions Enabler (10%)

- Describe how to install Solutions Enabler, manage licenses and the principles behind Gatekeeper management



- Explain the usage of options files and environment variables, and describe Solutions Enabler daemons and functions of the commonly used daemons

Symmetrix Configuration Management (35%)

- Perform VMAX 1/2 configuration, device creation, and setting of VMAX 1/2 metrics
- Allocate VMAX 1/2 storage using Auto-provisioning
- Describe Virtual Provisioning concepts, usage, benefits, & monitoring of Thin pools. Perform Virtual Provisioning operations
- Perform Virtual LUN Migration including migration of Thin devices from one pool to another
- Describe FAST and FAST VP concepts, usage, & benefits. Implement and manage FAST and FAST VP
- Describe Federated Tiered Storage concepts. Implement Federated Tiered Storage
- Manage Symmetrix storage in a virtual environment

Symmetrix Business Continuity Management (35%)

- Describe TimeFinder/Clone and TimeFinder VP Snap theory of operations. Perform TimeFinder/Clone and TimeFinder VP Snap Operations
- Describe TimeFinder/Snap theory of operations. Perform TimeFinder/Snap Operations.
- Describe SRDF/S theory of operations. Perform SRDF/S operations
- Describe SRDF/A theory of operations. Perform SRDF/A Operations
VMAX 1/2 based replication in a virtual environment

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
Symmetrix VMAX Fundamentals	MR-1WP-SYMMFD	eLearning	Now
Connectrix Fundamentals	MR-1WP-CONFD	eLearning	Now
PowerPath Fundamentals	MR-1WP-PWRPFD	eLearning	Now
Symmetrix VMAX TimeFinder Fundamentals	MR-1WP-TFDRFD	eLearning	Now
Symmetrix VMAX SRDF Fundamentals	MR-1WP-SDRFD	eLearning	Now
Symmetrix VMAX Open Replicator & Federated Live Migration Fundamentals	MR-1WP-EORS	eLearning	Now
Symmetrix VMAX Solutions Enabler Implementation	MR-1WP-SYMMSEIC	eLearning	Now
Unisphere for Symmetrix VMAX Implementation and Management	MR-1WP-UNIVMAX	eLearning	Now
EMC Storage Integration with VMware vSphere Best Practices	MR-1WP-EMCSTORVMWBP	eLearning	Now



Please complete one of the following courses

Course Title	Course Number	Mode	Available
Symmetrix VMAX Configuration Management – Online ILT	MR-1LP-SYMCFG	Online ILT	Now
Symmetrix VMAX Configuration Management	MR-1CP-SYMCFG	Instructor-Led	Now
Symmetrix VMAX Configuration Management – Video ILT	MR-1TP-SYMCFG	Video ILT-Stream	Now

Please complete one of the following courses

Course Title	Course Number	Mode	Available
Symmetrix VMAX Business Continuity Management – Online ILT	MR-1LP-SYBCEMGMT	Online ILT	Now
Symmetrix VMAX Business Continuity Management	MR-1CP-SYBCEMGMT	Instructor-Led	Now
Symmetrix VMAX Business Continuity Management – Video ILT	MR-1TP-SYBCEMGMT	Video ILT-Stream	Now

Note: These exam description details reflect contents as of **December 6, 2013**.

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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