

OPTIMIZING STORAGE SERVICES FOR APPLICATIONS WITH XTREMIO AND X2

DURATION: 3 DAYS

COURSE OVERVIEW

This course goes beyond simple administration and provides an in-depth understanding of how to leverage and optimize XtremIO features and capabilities in specific application areas. The course begins with providing hands-on coverage of operational aspects of the XtremIO environment, and then leads to XtremIO features and performance optimization. Lastly, it focuses on considerations and best practices for system integration with specific application use cases and the industry's leading data protection solutions such as Recover Point and VPLEX.

TARGET AUDIENCE

This course is intended for professionals responsible for implementing, managing and supporting XtremIO storage systems.

COURSE OBJECTIVES

1. Describe proper configuration and integration of XtremIO systems for end to end communication and all points in between
2. Obtain maximum availability from a solution by properly configuring replication and proactive monitoring through alerts and basic troubleshooting
3. Analyze workloads and optimize for maximum performance thresholds
4. Create custom reports to determine patterns and confirm with SLA guidelines
5. Describe data protection capabilities of XtremIO using Recover Point, VPLEX, and AppSync
6. Describe integration best practices for VDI and Oracle environments

COURSE CONTENT

XtremIO Overview and Access Requirements

Components, models and resources

XtremIO Management Server

XtremIO Cluster Management Interface

Accessing XtremIO storage management applications (GUI, CLI)

Management through REST APIs and Plugins

XtremIO Storage Presentation

Storage presentation and volume management

Host configuration – Windows, Linux, ESXi, Solaris, AIX, and HPUX

Connectivity Zoning best practices

XtremIO Snapshots

Snapshot features, capabilities, and operations

XtremIO Features and Integration

Encryption, Compression and Deduplication

XDP (XtremIO Data Protection)

Integration with ViPR, ViPR SRM, EMC Connectrix Manager Converged Network Edition (CMCNE)

Integration with Cisco Data Center Network Manager (DCNM)

Integration with VMware – VAAI, VSI, Operations Manager

Microsoft – ODX, ESI, and VSS Plug-in

XtremIO Performance and Reporting

Performance overview

XtremIO reports and host tools

Common performance issues

XtremIO Data Protection

RecoverPoint native integration with XtremIO arrays

RecoverPoint operations and management

Implementing XtremIO into a VPLEX Cluster

XtremIO Application Integration

Integration with Oracle environments

Integration with VDI environments

XtremIO Advanced Management Operations

Managing alerts and power procedures

Generating log files, and IP modifications

Space reclamation and shrinking deduplication rates

COURSE PREREQUISITES

1. XtremIO foundational knowledge
2. Connectivity protocols: IP, FC, iSCSI
3. Basic understanding of Windows, UNIX and other operating systems
4. Virtualized data center concepts
5. FC and iSCSI SANs
6. Storage network troubleshooting and performance concepts
7. Specific application architecture and functionalities – Oracle and VDI
8. Data protection and Business Continuity fundamentals