

40 HORAS

OVERVIEW

The course prepares students to perform Isilon cluster administration. Topics include the configuration of basic and advanced SmartConnect, SMB and NFS client access; HTTP configurations; data protection/replication in single and multi-cluster implementations, archive deployment, snapshots and replication, SNMP integration, data protection and caching, analytics and monitoring, auditing and the job engine. This training consists of 8 modules. The total time required to complete this course is approximately 5 days.

AUDIENCE

This course is intended for customers.

PREREQUISITE KNOWLEDGE/SKILLS

To understand the content and successfully complete this course, a student must have a suitable knowledgebase/skill set. The student must have an understanding of:

- Networking fundamentals such as TCP/IP, DNS and routing
- An introduction to storage such as NAS/SAN differences and basic storage principles and features
- Installation process of an Isilon cluster.

Students should have completed the following EMC courses:

- Isilon Fundamentals (e-learning)

COURSE OBJECTIVES

Upon successful completion of this course, participants will be able to:

- Understand the overall Isilon cluster architecture
- Explain the cluster layout and different types of access
- Navigate the details of file access
- Configure cluster features
- Utilize the tools to perform cluster monitoring

COURSE OUTLINE

Module 1: Introduction to Isilon clusters

- Isilon cluster architecture
- Hardware nodes and disk types
- OneFS operating system
- Management access
- Auditing

Module 2: Data protection and layout

- Protection and overhead
- Sub pools, data layout, and actual protection
- Caching

Module 3: Networking

- External interface connections
- DNS and multi-tenancy
- Connectivity to cluster and SmartConnect

Module 4: Access management

- Access control
- Directory service integration
- Hadoop and HDFS
- Object storage in OneFS

Module 5: User authentication and file access

- Identity management
- Access utilizing multiple protocols
- SMB and NFS shares

Module 6: Storage administration

- SmartPools and file pools
- SmartQuotas
- SnapShotIQ
- SyncIQ
- Deduplication

Module 7: Job Engine

- Job engine architecture
- Built-in jobs
- Jobs and job management

Module 8: Monitoring

- Installing InsightIQ
- Using InsightIQ and FSA
- ESRS