

40 HORAS

OVERVIEW

This course is designed to take an experienced Isilon Administrator and provide advanced details about the Isilon cluster operations. The course provides the expertise necessary for an Administrator to consider and plan for future growth, the understanding to implement best practices to avoid common issues, and the ability to quickly diagnose the source of issues and work efficiently with Isilon support resources. This training consists of 11 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:

- Isilon scale-out storage platform
- Isilon hardware troubleshooting and maintenance procedures
- Basic networking components including Ethernet, switches, and network aggregation
- Network protocols including TCP/IP, DNS, SMB, and NFS

Students should have completed the following EMC courses:

- Isilon Fundamentals (e-learning)
- Isilon Installation and Initial Configuration (e-learning)
- Isilon Administration & Management

COURSE OBJECTIVES

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

- Use notifications and events to identify and diagnose issues
- Navigate the system log structure
- Perform log analysis
- Identify and resolve networking and SmartConnect issues
- Perform trend analysis to find anomalies
- Establish sound administrative practices
- Identify disaster recovery options for Isilon clusters
- Differentiate between and explain upgrade options
- Understand the overhead and impact of different data protection options
- Understand latency and performance issues

COURSE OUTLINE

Module 1: Systems Commands

- Support commands
- Using commands
- Using compound commands
- System settings

Module 2: Log Analysis

- Gathering logs
- Key log entries
- Log analysis

Module 3: Sound Practices

- Principles of sound practices
- Capacity management
- Jobs and priorities
- Environment and dependencies

Module 4: Advanced Cluster Monitoring

- Reports and extrapolation
- Performance data
- Job engine monitoring

Module 5: Network Troubleshooting

- Cluster backend fundamentals
- Cluster front end routing

Module 6: SmartConnect Issues

- SmartConnect and DNS
- Integration of pools, subnets, and SmartConnect
- Access zones and SmartConnect

Module 7: Disaster Recovery

- Disaster recovery levels
- Snapshots, requested protection, and backup
- Replication
- Failover and failback processes
- Cluster restoration after complete site loss
- Upgrades
- Upgrade design goals and direction
- Upgrade types
- Planning upgrades
- Patching
- Firmware updates

Module 8: Data Layout and Protection

- SmartPool troubleshooting skills
- SmartPools service and job issues
- File pool policy issues

Module 9: Performance Issues

- Cluster performance tuning overview
- Workflow impact
- Cluster tuning