

Data ONTAP SAN Implementation (SANIMP)

Module 1: SAN Concepts

- NetApp SAN
- SAN Protocols
- SAN Terminology
- Implementing SAN
- Designing and Planning a SAN Solution

Module 2: IP SAN Architecture

- IP SAN Architecture
- iSCSI Protocol
- Implementing IP SAN on Data ONTAP
- Scaling IP SAN In clustered Data ONTAP

Module 3: Windows IP Connectivity

- Windows iSCSI Configuration
- Windows iSCSI Implementation

Module 4: Windows LUN

- LUN Access Overview
- Windows Setup
- Volume Management
- SnapDrive for Windows

Module 5: Linux IP Connectivity

- Linux iSCSI Configuration

Module 6: Linux LUN

- LUN Access Review
- Linux Setup
- Volume Management

Module 7: FC SAN Architecture

- FC SAN Architecture
- FC SAN Connections
- FC Protocol

Module 8: FC SAN Fabrics

- Fabric Design
- FC Initialization
- Switch Concepts
- FC Zoning
- Scaling FC SAN in clustered Data ONTAP

Module 9: Windows FC Connectivity

- Windows FC Connectivity
- Data ONTAP 7-Mode CF Modes

- Windows Configuration
- Discovery and Provisioning

Module 10: Unified Connect

- Unified Connect
- FCoE-Enabling Technologies
- End-to-End FCoE Configuration
- FC-to-FCoE Connectivity

Module 11: Linux FC

- Linux FC Configuration
- SnapDrive for Unix

Module 12: LUN Provisioning

- LUN Provisioning
- LUN Overwrite Reservations
- SAN Provisioning Options
- HOST-Side Space Management
- Keeping LUNs Online

Module 13: Host Considerations

- Common Disk Structures
- Multipathing
- Clustered Data ONTAP Path Changes
- Selective LUN Mapping in Clustered Data ONTAP 8.3
- Queue Depth

Module 14: SAN Management

- Port and Logical Interface Management
- LUN Management
- LUN Mobility
- Copy Offload
- LUN Cloning
- Protecting a LUN
- Removing a LUN

Module 15: SAN Troubleshooting

- SAN Troubleshooting
- Data ONTAP Troubleshooting
- NetApp Data Center Tools

Appendix A: Windows Miscellaneous

- Windows Server 2012 CLI
- Windows Server 2012 Server Core
- Dynamic disks

Appendix B: Brocade Configuration

- Fabric OS
- Management IP address configuration
- Setting configuration
- Zone configuration

Appendix C: Cisco Configuration

- NX-OS
- Initial configuration
- Port configuration
- Zone configuration

Appendix D: Scalable SAN Failover

- SAN architecture
- SAN operations
- CLAM quorum
- Epsilon administration

Appendix E: SAN Migration

- Foreign LUN import

New Features Addendum: ONTAP 9.1

- ONTAP 9 introduction
- ONTAP 9.1 highlights
- 12-node SAN clusters
- Simply anywhere
- OTNAP select
- OnCommand management portfolio
- SAN management enhancements
- All Flash FAS
- SnapCenter 2.0
- 9.1 hardware refresh