Windows Server 2012 Admin, Part 3 of 8: Network File Services

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Prerequisites: The course assumes that students have some familiarity with Microsoft Windows, Microsoft Windows Server, basic networking concepts, and a fundamental understanding of computer hardware.

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Course description: If users accessing the same files & applications, or centralized backup and file management are important your organization, you should check out the network file system also known as NFS. It provides centralized network locations where you can store files and share them with users. Through this session will configure a file server and implement a distributed file system. We will also touch on encrypting network files, and how to audit resources to ensure the best performance.

Course outline:

Configure File Server
- Introduction
- FSRM
- Deprecated Functionality
- Installation Options
- Management Options - GUI
- Management Options - PoSH
- Disk Quotas
- Quota Management
- File Screens
- File Server Reports
- Available Reports
- File Classification
- Classification Properties
- Classification Rules
- Classification Schedules
- Classification Considerations
- File Management Tasks
- Demo: Quotas using FSRM
- Demo: File Screens using FSRM
- Summary

Implement Distributed File System
- Introduction
- DFS
- DFS-N
- Domain-Based Namespace
- Standalone Namespace
- DFS Configuration
- PowerShell Cmdlets
- Additional Management Tasks
- Performance and Usability
- PoSH DFS Server Cmdlets
- Folders & Folder Targets
- PoSH Folder Cmdlets
- Summary

Implement DFS 2
- Introduction
- DFS-R
- Staging Folders
- DFS-R Conflict Management
- DFS-R & WMI
- DFS-R Prerequisites
- DFS-R Options
- Replication Groups
- Replication Topologies
- Replication Folders & Groups
- DFS-R Replication Process
- DFS-R RDC
- DFS Troubleshooting
- Diagnostic Reports
- Verify Topology Context Menu
- DFSUtil.exe
- DFSRDiag.exe
- DFS replication problems
- Demo: DFS Domain Namespace
- Demo: DFS Namespace Folders
- Demo: DFS Namespace - cont'd
- Summary

Encrypt Network Files
- Introduction
- File Encryption
- EFS
- How EFS Works
- EFS File Sharing
- BitLocker
- BitLocker Group Policy
- Smart Card Certificates
- File Recovery
- User-Recovered Encrypted Files
- Password Reset Disk
- Administrator Recovered Files
- DRA
- RA Certificate Templates
- DRA Enrollment
- DRA in Group Policy
- Designate a Local DRA
- Exporting Data Recovery Keys
- Importing DRA Keys
- Summary

EncryptNetworkFiles2
- Introduction
- Demo: EFS – DRA Group
- Demo: EFS – New Template
- Demo: EFS – Certificate Enroll
- Demo: EFS – Designate DRA
- Demo: EFS – Test Encryption
- Demo: EFS – Export Keys
- Demo: EFS – Import Keys
- Summary

Audit Resources
- Introduction
- Auditing
- Auditing Components
- What's New in 2012
- Expression Based Policies
- Enhanced File Access Auditing
- Removable Storage Auditing
- Audit Policy
- Audit Policy Default Settings
- Audit Settings & Results
- Auditing Configuration
- Auditpol
- Audit Event Viewing
- Advanced Auditing
- Demo: Advanced Auditing
- Demo: Configure Settings
- Summary