

70-411 – Administering Windows Server 2012 R2 (MCSA/MCSE) Series!

Overview: This series covers everything you need to know about administrating Windows Server 2012 R2. Students will learn the basics of server deployment and image management, managing servers, and configuring network services and access. Students will also learn about file and print services, network policy servers, active directory and group policy.

Course Modules:

Module 01 -Server Deployment and Image Management

(Duration: 1h 34m)

1. Workbook (Pdf)
2. Server Deployment and Image Management
3. WDS Server Role Services
4. Windows Deployment Services
5. Functionality
6. PowerShell Cmdlets for WDS
7. Prerequisites for Installing WDS Deployment and Transport Server (AD Integrated)
8. Prerequisites for Installing WDS Deployment and Transport Server (Standalone)
9. Demo – Installing WDS
10. Installing with Windows PowerShell

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11. Demo – Installing with Windows PowerShell and WDSUTIL
12. Configuring WDS Role
13. Types of Images
14. Steps for Adding Images
15. Demo – Configuring WDS
16. Demo – WDS Install Images and Server Configuration
17. Client Prerequisites for Installing Images
18. Client Steps for Installing Images
19. Configuring Boot Menu
20. Creating Capture Image
21. Custom Install Images
22. Creating Custom Install Images
23. Discover Images
24. Creating Discover Images
25. Creating Media for Discover Image
26. Demo – Creating Media for Discover Image
27. Unattended Installations
28. Unattended Steps
29. Sample Unattended File
30. Multicast Transmissions
31. Demo – Configuring Transmissions
32. Demo – Adding Second Image Files
33. Adding Driver Packages to Boot Images
34. Common Administrative Tasks
35. Phases of Automated Deployments
36. Tools to Create and Service Images
37. Module 01 Review
38. **Review Quiz (Number of attempts allowed: Unlimited)**

Module 02-Managing Servers and Updates

(Duration: 2h 13m)

1. Workbook (Pdf)
2. WSUS
3. Implementing Update Management

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4. WSUS 3.0 SP2 Prerequisites
5. Computer Groups
6. Approval
7. – Updates
8. WSUS Management Process
9. Group Policy and Automatic Updates
10. Demo
11. – Configuring WSUS Group Policy
12. WSUS Management with PowerShell
13. Demo
14. – Installing and Configuring WSUS
15. Demo
16. – Approve Updates
17. Monitoring Servers
18. Monitor Servers
19. Tools
20. Demo
21. – Task Manager and Resource Monitor
22. Demo
23. – Performance Monitor
24. Demo
25. – Performance Monitor Counters
26. Demo
27. – Data Collector Sets
28. Virtual Machine Overview
29. Demo
30. – Monitoring Virtual Machine
31. s
32. Monitoring Event Logs
33. Demo
34. – Event Viewer
35. Demo
36. – Event Forwarding
37. Monitoring Network Infrastructure
38. Demo
39. – Monitoring Network Infrastructure
40. Module 02 Review
41. **Review Quiz (Number of attempts allowed: Unlimited)**

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Module 03 -File and Print Services

(Duration: 2h 55m)

1. Workbook (Pdf)
2. FSRM
3. File System Resource Manager (FSRM)
4. Installing FSRM
5. Demo
6. – Installing and Configuring FSRM
7. Managing FSRM with PowerShell 3.0
8. Demo
9. – Managing FSRM with PowerShell 3.0
10. Demo
11. – Legacy FSRM Commands
12. Remote Management of FSRM
13. Quota Management
14. Demo
15. – Creating and Using Quota Templates
16. Demo
17. – Testing Quota Limits
18. File Screening Management
19. File Screen Templates
20. File Groups
21. Demo
22. – File Groups and File Screens
23. Storage Reports
24. Storage Report Types
25. Reports Continued
26. Demo
27. – Storage Reports
28. Report Tasks
29. Classification Management
30. Classification Properties
31. Handling Classification Property Conflicts
32. Classification Rule Properties

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33. Classification Examples
34. File Management
35. New and Changed Functionality Windows Server 2012 R2
36. DFS
37. DFS Role Services
38. Domain Based Namespaces
39. Standalone Namespaces
40. Demo
41. – Installing DFS
42. Demo
43. – Configure DFS
44. DFS Replication with Windows Server 2012 R2
45. Configure File and Disk Encryption
46. EFS
47. EFS and Network Shares
48. Encryption Keys
49. EFS File Encryption Process
50. EFS File Decryption Process
51. EFS File Recovery
52. Managing Recovery Agents
53. Demo
54. – EFS Encryption
55. BitLocker Device Encryption
56. Audit Policies
57. Configure Advanced Audit Policies
58. Audit Policies (Cont.)
59. Demo
60. – Configuring Audit Policies
61. Module 03 Review
62. **Review Quiz (Number of attempts allowed: Unlimited)**

Module 04 -Configuring Network Services and Access

(Duration: 1h 29m)

1. Workbook (Pdf)

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2. Configuring Network Services and Access
3. DNS Components
4. DNS Zones
5. Demo
6. – DNS Zones
7. Stub Zones vs. Conditional Forwarders
8. DNS Records
9. Demo
10. – DNS Zones and Records
11. Demo
12. – Using DNSCMD
13. How DNS Forwarding Works
14. Demo
15. – Adding DNS and Conditional Forwarders
16. DNS Namespaces
17. DNS Naming Contexts and Rules
18. External vs. Internal Namespaces
19. Zone Transfers
20. Demo
21. – Using DNSCMD and Zone Transfers
22. Demo
23. – Troubleshooting DNS
24. Zone Scavenging
25. Configuring Zone Scavenging
26. Demo – Scavenging DNS
27. Other Configuration Options
28. DNS Caching
29. Commands for DNS Cache
30. Storage of Information
31. Considerations
32. Module 04 Review
33. **Review Quiz (Number of attempts allowed: Unlimited)**

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Module 05 -Network Policy Servers

(Duration: 2h 23m)

1. Workbook (Pdf)
2. Network Policy Servers
3. Remote Access Methods
4. Components of Network Access Services
5. Roles and Features
6. VPN and Routing Configuration Components
7. Demo – Configure Routing and Remote Access
8. Network Authentication
9. PKI Components
10. DHCP Relationship with Remote Access
11. VPN Access
12. Requirements of VPN Server
13. Properties of VPN Connection
14. Tunneling Protocols for VPN Connections
15. VPN Reconnect
16. Demo – Advanced RAS Configuration
17. VPN Post Installation Checklist
18. Demo – Using CMAK
19. Components of Network Policy
20. Properties of Network Policy
21. Network Policy Processing
22. Direct Access Features
23. What's New in Direct Access
24. Deployment Phases of Direct Access
25. Required Infrastructure: Server
26. Required Infrastructure: Clients
27. Required Infrastructure: Network Location Server
28. Required Infrastructure: Internal Resources
29. Required Infrastructure: Active Directory Domain | Group Policy | DNS
30. Required Infrastructure: PKI | NAP
31. Name Resolution Policy Table
32. Internal Client Interaction with Direct Access

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33. External Client Interaction with Direct Access
34. Troubleshooting Tools
35. VPN Connectivity Troubleshooting
36. Common Error Codes
37. Network Address Translation
38. Configure Remote Dial-in Settings for Users
39. Network Policy and Access Services
40. Network Policy Server
41. Demo – Installing NPS Role
42. Network Policy Server Tools
43. RADIUS Clients
44. RADIUS Proxy
45. Certificates
46. Required Certificates
47. Monitoring NPS
48. Module 05 Review
49. Review Quiz (Number of attempts allowed: Unlimited)

Module 06 – Active Directory

(Duration: 2h 39m)

1. Workbook (Pdf)
2. Active Directory
3. Active Directory Directory Services (AD DS)
4. AD DS Forest Structure
5. AD DS Schema
6. AD DS Domain Structure
7. AD DS Domain Controllers
8. AD DS Default Containers
9. Organizational Units
10. Virtualized Domain Controllers
11. Cloning Virtual Domain Controllers
12. Process: Cloning Server 2012 VDC
13. DcCloneConfig.xml Syntax
14. DcCloneConfig.xml Parameters

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15. Domain Controller Safe Backup and Restor
16. e
17. PowerShell for Hyper
18. -V Snapshot Management
19. Demo
20. – Introduction to Active Directory Administration Tools
21. Importing User Accounts
22. Common LDAP Attributes
23. Demo
24. – Advanced AD Attributes
25. Demo
26. – Using CSVDE
27. Demo
28. – Export User Accounts Using CSVDE
29. Demo
30. – Importing Accounts Using LDIF
31. Demo
32. – Active Directory and PowerShell
33. Managed Service Accounts
34. Requirements for Service Accounts
35. Configuring Managed Service Accounts Using PowerShell
36. Kerberos Version 5
37. – Server 2012 Features
38. Kerberos Configurations Available
39. Service Principal Names (SPNs)
40. Passwords
41. Create Account Policies and User Rights Assignments
42. Demo
43. – Creating Password Policies
44. Notes Create Fine Grained Password Policies
45. Demo
46. – Password Settings Container
47. Universal Group Membership Caching (UGMC)
48. Operations Master Roles
49. Demo
50. – Operations Master Roles
51. Maintain Active Directory Domain Services
52. Demo
53. – AD Recycle Bin
54. Demo

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- 55. – Restore Deleted Items
- 56. Demo
- 57. – AD DB Maintenance and Snapshots
- 58. Read Only Domain Controllers (RODC)
- 59. Demo – Installing RODC
- 60. Manage RODC Caching
- 61. Module 06 Review
- 62. **Review Quiz (Number of attempts allowed: Unlimited)**

Module 07 -Group Policy

(Duration: 2h 30m)

- 1. Workbook (Pdf)
- 2. Group Policy
- 3. Defining Options
- 4. Group Policy and IPv6
- 5. Group Policy Examples of Usage
- 6. Demo – Group Policy Management Console
- 7. Group Policy Objects
- 8. Group Policy Application
- 9. CSE Policy Refresh
- 10. Windows Client Policy Processing
- 11. Scripts Node of Group Policy
- 12. Group Policy Nodes
- 13. Default Group Policies
- 14. Group Policy Storage
- 15. Replication of GPO's
- 16. Starter GPO's
- 17. Slow Link Processing
- 18. Configure Loopback Processing
- 19. Security Templates
- 20. Demo – Group Policy Folder Redirection
- 21. Demo – Group Policy Software Installation
- 22. Demo – Administrative Templates
- 23. Group Policy Links

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24. Group Policy Processing
25. Group Policy Inheritance and Precedence
26. Precedence – How to Handle Multiple Linked GPO's
27. Demo – Local Policies
28. Other Group Policy Options
29. WMI Filters
30. Security Templates (Cont.)
31. Demo – Group Policy Objects
32. Group Policy Preferences
33. Demo – Configure Group Policy Preferences
34. Maintaining GPO's
35. Group Policy and PowerShell
36. Demo – Creating Login Policies
37. Demo – Configuring User Desktops
38. Module 07 Review
39. Course Closure
40. **Review Quiz (Number of attempts allowed: Unlimited)**

This course includes

- about 15.21 hours on-demand video
- 7 downloadable Pdf Workbooks
- Unlimited time access (During Membership)
- Access on mobile and Desktop
- Certificate of Completion

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