

MCSA Windows Server 2012 Certification



Course Outline

70-410: Installing and Configuring Windows Server 2012 R2

Module 01 - Server 2012 Overview

Server 2012 Overview
 On Premise vs. Cloud
 Common Cloud Computing
 Cloud Computing
 Local Resources Provided to Clients
 Windows Server 2012 Editions
 Server 2012 Server Roles
 Features with Windows Server 2012
 Server Core
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 Install Options Integrated
 Media Formats
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 Demo - Installing Windows 2012 Enterprise
 Windows Server Installation
 Server Upgrades
 Server Migration
 Minimum Hardware Requirements
 Installation Steps
 Post Server Installation Tasks – Round One
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 Offline Domain Join
 Post Server Installation Tasks – Round Two
 Using PowerShell to Manage Servers
 Resources Utilization by Using Features on Demand
 Features on Demand – Order of Search
 How to Override Features on Demand (Default Behavior)
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 Supported Operation Systems (Source)
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Module 02 - Windows Server 2012 Management

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 Demo - Best Practice Analyzer
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 Demo - Administrative Tools Available
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 Switch Dependent Teaming Modes
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 NetSh Commands with Windows Server 2012 R2
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Module 03 - Working with Server Core

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 Removing GUI to Server Core
 To Install a Removed Role or Feature Using WIM Image
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Module 04 - Configuring Local Storage

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 Serial Advanced Technology Attachment (SATA)
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 Solid State Drives
 Direct Attached Storage (DAS)
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 Storage Area Network (SAN)
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 Storage Spaces
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 Work Folder Components
 Certificate Notes
 Work Folder Server Components
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 Offload Data Transfers (ODX)
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 Resilient File System (ReFS)
 Storage PowerShell Cmdlets
 Configure Basic Disks
 Configure Dynamic Disks
 Common Operations – Basic and Dynamic Disks
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 Configuring MBR Disks
 Configuring GPT Disks
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 BranchCache Client Settings
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Module 05 - Configure File and Print Access

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Module 06 - Remote Management and Virtualization

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 Shrinking Fixed Virtual Hard Disks
 VHD's vs. VHDX
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Module 07 - TCP/IP Protocol Suite

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 Converting Binary to Hex
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 Things to Know About TCP/IPv6
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 Global Unicast Addresses Structure
 Unique Local Unicast Address
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Module 08 - DHCP and DNS

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Demo - Tools and Commands
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 DNS Registration Enhancements Windows Server 2012 R2
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 Troubleshooting Name Resolution
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 DHCP Relay Agent
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 DHCP Installation
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 Create and Configure Scopes IPv4
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 Common DHCP Options
 Order Options are Assigned
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 Securing DHCP and Unauthorized Computers
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 New PowerShell Commands for DHCP
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Module 09 - Overview of Active Directory Domain Services

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 Logical Components of Active Directory
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 Domain Structure - Forest
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 Domain Structures - Sites (Physical)
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 Overview of Domain Controllers
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 Deprecated Features Server 2012 Related to AD DS
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 AD and Workplace Join
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 Best Practices - FSMO and GC
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 Guidelines for Raising Domain and Forest Functional Levels
 Functional Level Options
 Functional Levels and Recycle Bin
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 How DC's are Found and Used
 Demo - SRV Records DNS
 The AD DS Logon Process
 Install Domain Controllers
 DC Install Questions and Required Information
 Required Information to Collect Pre-Install
 Demo - Install Domain Controllers
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 Clean Installation of Windows Server 2012 Domain Controllers
 Install Domain Controller Using IFM
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 Attributes of Users
 Creating Account Templates
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 Group Scopes
 Helpful Acronyms
 E-Notes
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 Protected Users Security Group
 Protected Users Security Group User Limitations
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 Troubleshooting Steps
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Module 10 - Windows Security

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 Components of Group Policy
 Group Policy Structure
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 Multiple Local Group Policies
 Notes: Local Group Policies
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 Starter GPO
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 Authentication Policies – Server 2012 R2
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 Basics: Software Restriction Policies
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 AppLocker Rules
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 Windows Firewall with Advanced Security
 Enhancements Over Standard Windows Firewall
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 Deploy Firewall Rules
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 Course Closure

70-411: Administering Windows Server 2012 R2

Module 01 - Server Deployment and Image Management

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 Configuring WDS Role
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 Steps for Adding Images
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Client Prerequisites for Installing Images
 Client Steps for Installing Images
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 Creating Capture Image
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 Creating Custom Install Images
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 Creating Discover Images
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Module 02 - Managing Servers and Updates

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 WSUS Management Process
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 Demo - Configuring WSUS Group Policy
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 Demo - Performance Monitor
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Module 03 - File and Print Services

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 Demo - Managing FSRM with PowerShell 3.0
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 Remote Management of FSRM
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 Classification Examples
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DFS Replication with Windows Server 2012 R2
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Module 04 - Configuring Network Services and Access

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 Demo - Adding DNS and Conditional Forwarders
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Module 05 - Network Policy Servers

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 External Client Interaction with Direct Access
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 Cloning Virtual Domain Controllers
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 Kerberos Version 5 – Server 2012 Features
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 Notes Create Fine Grained Password Policies
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 Course Closure

70-412: Configuring Advanced Windows Server 2012 R2 Services

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 DHCP Lease Process
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 Super Scopes and Multinetting
 Demo - Create a Super Scope
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 Failover Clustering: Hardware Requirements
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Configuring Multi-Site Failover Clusters
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Module 03 - Hyper-V and High Availability

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 Windows Server 2012 R2 Shared Virtual Disk
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 Scale-Out File Server
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 VM Failover and Preference Settings
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 How to Deploy Virtual Machines with VMM
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Module 04 - Active Directory

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 AD Sites and Replication
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Module 05 - Active Directory Federation Services

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 Multi-Factor Access Control in AD FS with Windows Server 2012 R2
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Module 06 - File and Storage Services

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 BranchCache Server Settings
 BranchCache Client Settings
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 DAC Claims
 Resource Properties
 Accessing Resources with DAC
 DAC Requirements
 Enabling Support in AD DS KDC
 Creating Claims
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 Demo - Enable File Share for BranchCache
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 File Classification Rules Properties
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Module 07 - Business Continuity and Disaster Recovery

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 Backup Planning
 Backup Security
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 Options | Windows Backup
 Options | Recovery Wizard
 System Restore
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Module 08 - Active Directory Certificate Services

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 Certificate Services Infrastructure
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 CA Hierarchies
 Standalone CA
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 Demo - Subordinate CA Deployment
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 Template Settings | Computers
 Template Permissions
 Certificate Template Versions Available in Server 2012
 Demo - Modify and Enable Certificate Templates
 Demo - Configure Certificate Templates
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Key Recovery Agents (KRA)
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Module 09 - Active Directory Rights Management Services

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 Policy Rights Templates
 Demo - AD RMS Templates
 Template Offline Use
 Super Users Group
 Enabling External Users and AD RMS Access
 Back up AD RMS
 Decommission AD RMS
 Module 09 Review
 Course Closure