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Administering Windows Server 2012

Course ID#: 1410-866-12-W

35 Hrs

Course Content

Course Description:

This 5-day Administering Windows Server 2012 course is part two, of a series of three courses, which provide the skills and knowledge necessary to implement a core Windows Server 2012 Infrastructure in an existing enterprise environment. The three courses in total will collectively cover implementing, managing, maintaining and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skill set and tasks across the courses this course will primarily cover the administration tasks necessary to maintain a Windows Server 2012 infrastructure, such as user and group management, network access and data security. This version of this course 20411A utilizes pre-release software in the virtual machines for the labs.

Prerequisites:

This course is intended for Information Technology (IT) Professionals with hands-on experience working in a Windows Server 2008 or Windows Server 2012 environment, who wants to acquire the skills and knowledge necessary to manage and maintain the core infrastructure required for a Windows Server 2012 environment. The key focus for students in this course is to broaden the initial deployment of Windows Server 2012 services and infrastructure and provide the skills necessary to manage and maintain a domain based Windows Server 2012 environment, such as user and group management, network access and data security.

Candidates would typically be System Administrators or aspiring to be System Administrators. They must have at least one year hands-on experience working in a Windows Server 2008 or Windows Server 2012 environment. Candidates must also have knowledge equivalent to that already covered in “20410A: Installing and Configuring Windows Server 2012” course as this course will build upon that knowledge.

Before attending this course, students must have:

- At least one year of experience working with Windows Server 2008, Windows Server 2008 R2 or Windows Server 2012.
- Good knowledge and understanding of Active Directory and networking infrastructure.
- Knowledge equivalent to that already covered in “20410A: Installing and Configuring Windows Server 2012”.



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Topics:

Module 1: Implementing a Group Policy Infrastructure

Lessons

- Introducing Group Policy
- Implementing and Administering GPOs
- Managing Group Policy Scope
- Group Policy Processing
- Troubleshooting the Application of GPOs

Lab: Implementing a Group Policy Infrastructure

- Creating and Configuring Group Policy Objects
- Managing Group Policy Scope
- Verifying Group Policy Application
- Managing Group Policy Objects

Module 2: Managing User Desktops with Group Policy

Lessons

- Implementing Administrative Templates
- Configuring Folder Redirection and Scripts
- Configuring Group Policy Preferences
- Managing Software with Group Policy

Lab: Managing User Desktops with Group Policy

- Implementing Settings by Using Group Policy Preferences
- Configuring Folder Redirection

Module 3: Managing User and Service Accounts

Lessons

- Automating User Account Creation

- Configuring Password Policy and Account Lockout Settings
- Creating and Administering User Accounts
- Configuring User Object Attributes
- Configuring Managed Service Accounts

Lab: Managing User and Service Accounts

- Configuring Password Policy and Account Lockout Settings
- Creating and Associating a Managed Service Account

Module 4: Maintaining Active Directory Domain Services

Lessons

- Implementing Virtualized Domain Controllers
- Implementing Read Only Domain Controllers
- Administering AD DS
- Managing the AD DS Database

Lab: Maintaining Active Directory Domain Services

- Installing and Configuring a Read Only Domain Controller
- Configuring AD DS Snapshots
- Configuring the Active Directory Recycle Bin

Module 5: Configuring and Troubleshooting DNS

Lessons

- Installing the DNS Server Role
- Configuring the DNS Server Role
- Configuring DNS Zones
- Configuring DNS Zone Transfers
- Managing and Troubleshooting DNS



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Module 5: Continued

Lab: Configuring and Troubleshooting DNS

- Configuring DNS Resource Records
- Configuring DNS Conditional Forwarding
- Installing and Configuring DNS Zones
- Managing and Troubleshooting DNS

Module 6: Configuring and Troubleshooting Remote Access

Lessons

- Configuring Network Access
- Configuring VPN Access
- Overview of Network Policies
- Troubleshooting Routing and Remote Access
- Configuring DirectAccess

Lab: Configuring and Troubleshooting Remote Access

- Configuring Remote Access
- Configuring the DirectAccess Infrastructure
- Configuring Direct Access Clients
- Verifying the DirectAccess Configuration

Module 7: Installing, Configuring, and Troubleshooting the Network Policy Server Role

Lessons

- Installing and Configuring a Network Policy Server
- Configuring RADIUS Clients and Servers
- NPS Authentication Methods
- Monitoring and Troubleshooting a Network Policy Server

Lab: Installing and Configuring a Network Policy Server

- Installing and Configuring NPS to Support RADIUS
- Configuring a RADIUS Client

Module 8: Implementing Network Access Protection

Lessons

- Overview of Network Access Protection
- Overview of NAP Enforcement Processes
- Configuring NAP
- Monitoring and Troubleshooting NAP

Lab: Implementing Network Access Protection

- Configuring NAP Components
- Configuring the Client Settings to Support NAP

Module 9: Optimizing File Services

Lessons

- Overview of FSRM
- Using FSRM to Manage Quotas, File Screens, and Storage Reports
- Implementing Classification Management and File Management Tasks
- DFS Overview
- Configuring DFS Namespaces
- Configuring and Troubleshooting DFS Replication

Lab A: Configuring Quotas and File Screening by Using FSRM

- Configuring FSRM Quotas
- Configuring File Screening

Lab B: Configuring DFS Namespaces and Replication

- Installing the DFS Namespaces Server Role
- Configuring the DFS Role Service
- Configuring DFS Namespace
- Configuring DFS-R



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Module 10: Configuring Encryption and Advanced Auditing

Lessons

- Encrypting Network Files with EFS
- Configuring Advanced Auditing

Lab A: Configuring Encryption and Advanced Auditing

- Encrypting and Recovering Files
- Configuring Advanced Auditing

Module 11: Deploying and Maintaining Server Images

Lessons

- Overview of Windows Deployment Services
- Implementing Deployment with WDS
- Administering WDS

Lab: Deploying and Maintaining Server Images Using Windows Deployment Services

- Installing and Configuring Windows Deployment Services
- Creating Operating System Images with WDS
- Configuring Custom Computer Naming
- Deploying Images with WDS

Module 12: Deploying and Maintaining Server Images

Lessons

- Overview of WSUS
- Deploying Updates with WSUS

Lab: Implementing Update Management

- Implementing the WSUS Server Role
- Configuring Update Settings
- Approving and Deploying an Update by Using WSUS

Module 13: Monitoring Windows Server 2012

Lessons

- Monitoring Tools
- Using Performance Monitor
- Monitoring Event Logs

Lab: Monitoring Windows Server 2012

- Establishing a Performance Baseline
- Identifying the Source of a Performance Problem
- Viewing and Configuring Centralized Event Logs