

Course 20411A: Administering Windows Server 2012

Exam Code: 70-411

Duration: 40 Hrs

Course Outline

Module 1: Implementing a Group Policy Infrastructure

This module covers how to implement a Group Policy infrastructure and then how to configure and manage that infrastructure. It also covers how to scope Group Policy objects (GPOs) using links, security groups, WMI filters, loopback processing, and preference targeting as well as covering troubleshooting policy application.

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

This module covers implementing administrative templates, how to configure GPO preferences and folder redirection as well as managing software 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

This module covers how to create and administer user accounts as well as configure user object attributes. It also covers automating user account creation and configuring Managed 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

This module covers how to implement Virtualized and Read Only Domain Controllers as well as how to perform common AD DS administrative tasks. The module will also cover how to manage the AD DS database.

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

This module covers installing and configuring the DNS server role as well as creating and configuring DNS zones and zone transfers. It will also cover managing 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

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

This module covers configuring network access, creating and configuring virtual private networks (VPNs) and Network Policies as well as troubleshooting routing and remote access. It will also cover configuration of Direct 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

This module covers installing and configuring Network Policy Server (NPS) RADIUS, as well as clients and servers. It will also deal with NPS authentication methods and monitoring and troubleshooting a NPS.

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

This module will provide an overview of Network Access Protection (NAP), detailing the functionality and infrastructure requirements. It will also cover configuration, monitoring and troubleshooting NAP.

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

This module covers File Server Resource Manager (FSRM) and how to use it to implement Quotas, file screens and Storage Reports. It will also outline how to implement Classification Management and File Management Tasks as well as covering how to implement DFS, DFS Namespaces and configuring and troubleshooting DFS Replication.

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: Lab A: Configuring Quotas and File Screening by Using FSRM

- Configuring FSRM Quotas
- Configuring File Screening

Lab: Lab B: Configuring DFS Namespaces and Replication

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

Module 10: Configuring Encryption and Advanced Auditing

This module covers how to increase file system security by configuring file encryption with Encrypting File System (EFS) as well as how to enable and implement advanced auditing features.

Lessons

- Encrypting Network Files with EFS
- Configuring Advanced Auditing

Lab: Lab A: Configuring Encryption and Advanced Auditing

- Encrypting and Recovering Files
- Configuring Advanced Auditing

Module 11: Deploying and Maintaining Server Images

This module covers the functionality of Windows Deployment Services (WDS), and explains how to use Windows Deployment Services tools to perform lite-touch deployments

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

This module covers the features and functionality of Windows Server Update Services (WSUS) as well as detailing how to provision updates with WSUS.

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

This module covers monitoring tools available in Windows Server 2012. It will cover the use of Performance Monitor, as well as how to monitor and successfully utilize Event logs.

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