

70-411: Administrating Windows Server 2012

Course Overview

This course provides students with the knowledge and skills to administer a Windows Server 2012 infrastructure in an enterprise environment.

Course Introduction

7m

Course Introduction

Module 01 - Server Deployment and Image Management

1h 36m

Server Deployment and Image Management

WDS Server Role Services

Windows Deployment Services

Functionality

Prerequisites for Installing WDS Deployment and Transport Server (AD Integrated)

Prerequisites for Installing WDS Deployment and Transport Server (Standalone)

Demo - Installing WDS

Installing with Windows PowerShell

Demo - Installing with Windows PowerShell and WDSUTIL

Configuring WDS Role

Types of Images

Steps for Adding Images

Demo - Configuring WDS

Demo - WDS Install Images and Server Configuration

Client Prerequisites for Installing Images

Client Steps for Installing Images

Configuring Boot Menu

Creating Capture Image

Custom Install Images

Creating Custom Install Images

Discover Images

Creating Discover Images

Creating Media for Discover Image

Demo - Creating Media for Discover Image

Unattended Installations

Unattended Steps

Sample Unattended File

Multicast Transmissions

Demo - Configuring Transmissions

Demo - Adding Second Image Files

Adding Driver Packages to Boot Images

Common Administrative Tasks

Phases of Automated Deployments

Tools to Create and Service Images

Module 01 Review

Module 02 - Managing Servers and Updates

2h 13m

WSUS

Implementing Update Management

WSUS 3.0 SP2 Prerequisites

Computer Groups

Approval - Updates

WSUS Management Process

Group Policy and Automatic Updates

Demo - Configuring WSUS Group Policy

WSUS Management with PowerShell

Demo - Installing and Configuring WSUS

Demo - Approve Updates

Monitoring Servers

Monitor Servers

Tools

Demo - Task Manager and Resource Monitor

Demo - Performance Monitor

Demo - Performance Monitor Counters

Demo - Data Collector Sets

Virtual Machine Overview

Demo - Monitoring Virtual Machines

Monitoring Event Logs

Demo - Event Viewer

Demo - Event Forwarding

Monitoring Network Infrastructure

Demo - Monitoring Network Infrastructure

Module 02 Review

Module 03 - File and Print Services

2h 21m

FSRM

File System Resource Manager (FSRM)

Installing FSRM

Demo - Installing and Configuring FSRM

Managing FSRM with PowerShell 3.0

Demo - Managing FSRM with PowerShell 3.0

Demo - Legacy FSRM Commands

Remote Management of FSRM

Quota Management

Demo - Creating and Using Quota Templates

Demo - Testing Quota Limits

File Screening Management

File Screen Templates

File Groups

Demo - File Groups and File Screens

Storage Reports

Storage Report Types

Reports Continued

Demo - Storage Reports

Report Tasks

Classification Management
Classification Properties
Handling Classification Property Conflicts
Classification Rule Properties
Classification Examples
File Management

DFS

DFS Role Services
Domain Based Namespaces
Standalone Namespaces
Demo - Installing DFS
Demo - Configure DFS
Configure File and Disk Encryption
EFS

EFS and Network Shares
Encryption Keys
EFS File Encryption Process
EFS File Decryption Process
EFS File Recovery
Managing Recovery Agents
Demo - EFS Encryption

Audit Policies

Configure Advanced Audit Policies
Audit Policies (Cont.)
Demo - Configuring Audit Policies
Module 03 Review

Module 04 - Configuring Network Services and Access

1h 29m

Configuring Network Services and Access

DNS Components
DNS Zones
Demo - DNS Zones
Stub Zones vs. Conditional Forwarders
DNS Records
Demo - DNS Zones and Records
Demo - Using DNSCMD
How DNS Forwarding Works
Demo - Adding DNS and Conditional Forwarders
DNS Namespaces
DNS Naming Contexts and Rules
External vs. Internal Namespaces
Zone Transfers
Demo - Using DNSCMD and Zone Transfers
Demo - Troubleshooting DNS
Zone Scavenging
Configuring Zone Scavenging
Demo - Scavenging DNS
Other Configuration Options
DNS Caching
Commands for DNS Cache

Storage of Information
Considerations
Module 04 Review

Module 05 - Network Policy Servers

2h 23m

Network Policy Servers

Remote Access Methods
Components of Network Access Services
Roles and Features
VPN and Routing Configuration Components
Demo - Configure Routing and Remote Access
Network Authentication
PKI Components
DHCP Relationship with Remote Access
VPN Access
Requirements of VPN Server
Properties of VPN Connection
Tunneling Protocols for VPN Connections
VPN Reconnect
Demo - Advanced RAS Configuration
VPN Post Installation Checklist
Demo - Using CMAK
Components of Network Policy
Properties of Network Policy
Network Policy Processing
Direct Access Features
What's New in Direct Access
Deployment Phases of Direct Access
Required Infrastructure: Server
Required Infrastructure: Clients
Required Infrastructure: Network Location Server
Required Infrastructure: Internal Resources
Required Infrastructure: Active Directory Domain | Group Policy | DNS
Required Infrastructure: PKI | NAP
Name Resolution Policy Table
Internal Client Interaction with Direct Access
External Client Interaction with Direct Access
Troubleshooting Tools
VPN Connectivity Troubleshooting
Common Error Codes
Network Address Translation
Configure Remote Dial-in Settings for Users
Network Policy and Access Services
Network Policy Server
Demo - Installing NPS Role
Network Policy Server Tools
RADIUS Clients
RADIUS Proxy
Certificates
Required Certificates

Monitoring NPS
Module 05 Review

Module 06 - Active Directory

2h 24m

Active Directory

Demo - Introduction to Active Directory Administration Tools
Importing User Accounts
Common LDAP Attributes
Demo - Advanced AD Attributes
Demo - Using CSVDE
Demo - Export User Accounts Using CSVDE
Demo - Importing Accounts Using LDIF
Demo - Active Directory and PowerShell
Managed Service Accounts
Requirements for Service Accounts
Configuring Managed Service Accounts Using PowerShell
Kerberos Version 5 – Server 2012 Features
Kerberos Configurations Available
Service Principal Names (SPNs)
Passwords
Create Account Policies and User Rights Assignments
Demo - Creating Password Policies
Notes Create Fine Grained Password Policies
Demo - Password Settings Container
Universal Group Membership Caching (UGMC)
Operations Master Roles
Demo - Operations Master Roles
Maintain Active Directory Domain Services
Demo - AD Recycle Bin
Demo - Restore Deleted Items
Demo - AD DB Maintenance and Snapshots
Read Only Domain Controllers (RODC)
Demo - Installing RODC
Manage RODC Caching
Module 06 Review

Module 07 - Group Policy

2h 29m

Group Policy

Defining Options
Group Policy Examples of Usage
Demo - Group Policy Management Console
Group Policy Objects
Group Policy Application
CSE Policy Refresh
Windows Client Policy Processing
Scripts Node of Group Policy
Group Policy Nodes
Default Group Policies
Group Policy Storage
Replication of GPO's

Starter GPO's
Slow Link Processing
Configure Loopback Processing
Security Templates
Demo - Group Policy Folder Redirection
Demo - Group Policy Software Installation
Demo - Administrative Templates
Group Policy Links
Group Policy Processing
Group Policy Inheritance and Precedence
Precedence – How to Handle Multiple Linked GPO's
Demo - Local Policies
Other Group Policy Options
WMI Filters
Security Templates (Cont.)
Demo - Group Policy Objects
Group Policy Preferences
Demo - Configure Group Policy Preferences
Maintaining GPO's
Group Policy and PowerShell
Demo - Creating Login Policies
Demo - Configuring User Desktops
Module 07 Review
Course Closure

Total Duration: 15h 2m