Administering Active Directory Windows Server® 2012

Formation Windows 2012, administration de l'Active Directory

Get hands-on instruction and practice administering Windows Server 2012, including Windows Server 2012 R2, in this Microsoft On-Demand course. This course is part two in a series of three courses that provides the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment.

The three courses collectively cover implementing, managing, maintaining and provisioning services and infrastructure in a Windows Server 2012 environment. Although there is some cross-over of skills and tasks across these courses, this course focuses on the administration tasks necessary to maintain a Windows Server 2012 infrastructure such as configuring and troubleshooting name resolution, user and group management with Active Directory Domain Services (AD DS) and Group Policy, implementing Remote Access solutions such as DirectAccess, VPNs and Web Application Proxy, implementing Network Policies and Network Access Protection, Data Security, deployment and maintenance of server images, as well as update management and monitoring of Windows Server 2012 environments.

This course maps directly to and is the preferred choice for hands-on preparation for Microsoft Certified Solutions Associate (MCSA): Exam 411: Administering Windows Server 2012, which is the second of three exams required for MCSA: Windows Server 2012 credential.

Labs in this course are based on Windows Server 2012 R2 and Windows 8.1.

Détails

- Code : W2012AAD
- Durée : 4 jours (28 heures)

Public

Pré-requis

Objectifs

Programme

Module 1: Configuring and Troubleshooting Domain Name System

- Description
    - This module explains how to configure and troubleshoot DNS, including DNS replication and caching
- Lessons
    - Configuring the DNS Server Role
    - Configuring DNS Zones
    - Configuring DNS Zone Transfers
    - Managing and Troubleshooting DNS
- Lab
    - Configuring and Troubleshooting DNS
- After completing this module, students will be able to:
    - Install and configure the DNS server role
    - Create and configure DNS zones
    - Configure DNS zone transfers
    - Manage and troubleshoot DNS

Module 2: Maintaining Active Directory Domain Services

- Description
    - This module explains how to implement virtualized domain controllers and read-only domain controller

  (RODCs)
    - It also explains how to perform common AD DS administrative tasks
    - and manage the AD DS Database
- Lessons
    - Overview of AD DS
    - Implementing Virtualized Domain Controllers
    - Implementing RODCs
    - Administering AD DS
    - Managing the AD DS Database
- Lab
    - Maintaining AD DS
- After completing this module, students will be able to:
    - Implement virtualized domain controllers
    - Implement RODCs.Administer AD DS
    - Manage the AD DS database

Module 3: Managing User and Service Accounts

- Description
    - This module explains how to create, configure and automate the creation of user accounts
    - It also explains how to configure account-related properties of user objects
    - It further explains how to create and administer Managed Service Accounts

- Lessons
    - Configuring Password Policy and User Account Lockout Settings
    - Configuring Managed Service Accounts
- Lab
    - Managing User and Service Accounts
- After completing this module, students will be able to:
    - Configure password policy and user account lockout settings
    - Configure managed service accounts

Module 4: Implementing a Group Policy Infrastructure

- Description
    - This module explains how to implement a GPO infrastructure
    - This also teaches how to perform common GPO management tasks, and manage GPOs by using Windows PowerShell
    - It also focuses on troubleshooting the application of GPOs
- Lessons
    - Introducing Group Policy
    - Implementing and Administering GPOs
    - Group Policy Scope and Group Policy Processing
    - Troubleshooting the Application of GPOs
- Lab
    - Implementing a Group Policy Infrastructure
- After completing this module, students will be able to:
    - Explain what Group Policy is
    - Implement and administer Group Policy Objects (GPOs)
    - Manage Group Policy scope and Group Policy processing
    - Troubleshoot the application of GPOs

Module 5: Managing User Desktops with Group Policy

- Description
    - This module explains how you can use Group Policy Objects (GPOs) to implement desktop environments across your organization by using Administrative Templates, Folder Redirection, Group Policy preferences, and where applicable, use software deployment to install and update application programs
    - It is important to know how to use these various GPO features so that you can configure your users' computer settings properly
- 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
- After completing this module, students will be able to:
    - Configure folder redirection and scripts by using GPOs
    - Describe and implement Administrative Templates
    - Configure GPO preferences

- Deploy software by using GPOs

Module 6: Installing, Configuring, and Troubleshooting the Network Policy Server Role

- Description
    - This module explains how to install and configure NPS, RADIUS Clients and servers
    - It also describes NPS authentication methods
    - It describe NPS authentication methods and how to
    - monitor and troubleshoot 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
- After completing this module, students will be able to:
    - Install and configure a Network Policy Server (NPS)
    - Configure clients and servers with the Remote Authentication Dial-In User Service (RADIUS) protocol
    - Explain NPS authentication methods
    - Monitor and troubleshoot NPS

Module 7: Implementing Network Access Protection

- Description
    - This module explains how to configure, monitor, and troubleshoot NAP
    - It also explains how NAP can help to protect your network and the various NAP enforcement processes
- Lessons
    - Overview of Network Access Protection
    - Overview of NAP Enforcement Processes
    - Configuring NAP
    - Configuring IPSec Enforcement for NAP
    - Monitoring and Troubleshooting NAP
- Lab
    - Implementing Network Access Protection
- After completing this module, students will be able to:
    - Describe how NAP can help to protect your network
    - Describe the various NAP enforcement processes
    - Configure NAP
    - Monitor and troubleshoot NAP

Module 8: Implementing Remote Access

- Description
    - In this module, you will learn how to implement and manage remote access in Windows Server 2012
    - You will also learn how to implement DirectAccess by using the Getting Started wizard, implement and manage an advanced DirectAccess infrastructure, and implement VPN
- Lessons
    - Overview of Remote Access
    - Implementing DirectAccess by Using the Getting Started Wizard

- ○ Implementing and Managing an Advanced DirectAccess Infrastructure
  - ○ Implementing VPN
  - ○ Implementing Web Application Proxy
- Lab
  - ○ Implementing DirectAccess by Using the Getting Started Wizard
- Lab
  - ○ Deploying an Advanced DirectAccess Solution
- Lab
  - ○ Implementing VPN
- Lab
  - ○ Implementing Web Application Proxy
- After completing this module, students will be able to:
  - ○ Install and manage the Remote Access role in Windows Server 2012 operating system
  - ○ Implement DirectAccess by using the Getting Started Wizard
  - ○ Implement and manage an advanced DirectAccess Infrastructure
  - ○ Implement VPN access
  - ○ Implement Web Application Proxy

Module 9: Optimizing File Services

- Description
  - ○ This module describes FSRM, configure quotas, file screening, and storage reports and implement classification management and file management tasks
  - ○ It describes the components of the DFS
  - ○ I also explains how to configure DFS namespaces and DFS replication
- Lessons
  - ○ Overview of FSRM
  - ○ Using FSRM to Manage Quotas, File Screens, and Storage Reports
  - ○ Implementing Classification and File Management Tasks
  - ○ Overview of DFS
  - ○ Configuring DFS Namespaces
  - ○ Configuring and Troubleshooting DFS Replication
- Lab
  - ○ Configuring Quotas and File Screening Using File Server Resource ManagerLab : Implementing Distributed File System
- After completing this module, students will be able to:
  - ○ Describe the File Server Resource Manager (FSRM) in the Windows Server 2012 operating system
  - ○ Use FSRM to manage quotas, file screens, and storage reports
  - ○ Implement classification and file management tasks
  - ○ Describe Distributed File System (DFS)
  - ○ Configure DFS namespaces
  - ○ Configure and troubleshoot DFS Replication

Module 10: Configuring Encryption and Advanced Auditing

- Description

- ○ This module explains how to encrypt files using EFS and configure advanced auditing features
- Lessons
  - ○ Encrypting Drives by Using BitLocker
  - ○ Encrypting Files by Using EFS
  - ○ Configuring Advanced Auditing
- Lab
  - ○ Configuring Encryption and Advanced Auditing
- After completing this module, students will be able to:
  - ○ Secure data by using BitLocker Drive Encryption
  - ○ Encrypt files by using Encrypting File System (EFS)
  - ○ Configure advanced auditing

Module 11: Deploying and Maintaining Server Images

- Description
  - ○ This module explains how to create and manage server images by using Windows Deployment Services
- Lessons
  - ○ Overview of Windows Deployment Services
  - ○ Managing Images
  - ○ Implementing Deployment with Windows Deployment Services
  - ○ Administering Windows Deployment Services
- Lab
  - ○ Using Windows Deployment Services to Deploy Windows Server 2012
- After completing this module, students will be able to:
  - ○ Describe the important features and functionality of Windows Deployment Services (Windows DS)
  - ○ Manage images by using Windows Assessment and Deployment Kit (Windows ADK) Tools
  - ○ Configure Windows Deployment Services in Windows Server 2012
  - ○ Perform deployments with Windows Deployment Services

Module 12: Implementing Update Management

- Description
  - ○ This module explains how to use Windows Server Update Services (WSUS) to deploy updates to Windows servers and clients
- Lessons
  - ○ Overview of WSUS
  - ○ Deploying Updates with WSUS
- Lab
  - ○ Implementing Update Management
- After completing this module, students will be able to:
  - ○ Describe the role of WSUS
  - ○ Describe the WSUS update management process
  - ○ Deploy updates with WSUS

Module 13: Monitoring Windows Server 2012

- Description
  - ○ This module explains the monitoring tools available in Windows Server 2012. it also explains how to use Performance Monitor and monitor events
- Lessons
  - ○ Monitoring Tools

- - Using Performance Monitor
  - Monitoring Event Logs
- Lab
  - Monitoring Windows Server 2012
- After completing this module, students will be able to:
  - Describe the monitoring tools for the Windows

Server 2012 operating system
- Use Performance Monitor to view and analyze performance statistics of programs that are running on their servers
- Monitor event logs to view and interpret the recorded events

Modalités

- Type d'action :Acquisition des connaissances
- Moyens de la formation :Formation présentielle – 1 poste par stagiaire – 1 vidéo projecteur – Support de cours fourni à chaque stagiaire
- Modalités pédagogiques :Exposés – Cas pratiques – Synthèse
- Validation :Exercices de validation – Attestation de stages