

Enterprise Computing Solutions - Education Services

OFERTA FORMATIVA

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Microsoft Identity with Windows Server 2016

CÓDIGO: DURACIÓN: Precio:

MCS 20742 40 Hours (5 días) A consultar

Description

This five-day instructor-led course teaches IT professionals how to deploy and configure Active Directory Domain Services (AD DS) in a distributed environment,

how to implement Group Policy, how to perform backup and restore, and how to monitor and troubleshoot Active Directory-related issues with Windows Server 2016. Additionally, this course teaches students how to deploy other Active Directory server roles, such as Active Directory Federation Services (AD FS) and Active Directory Certificate Services (AD CS).

Objetivos

After completing this course, students will be able to: Install and configure domain controllers.

- •Manage objects in AD DS by using graphical tools and Windows PowerShell.•Implement AD DS in complex environments.
- •Implement AD DS sites, and configure and manage replication. •Implement and manage Group Policy Objects (GPOs).
- •Manage user settings by using GPOs.•Secure AD DS and user accounts.
- •Implement and manage a certificate authority (CA) hierarchy with AD CS.•Deploy and manage certificates.
- •Implement and administer AD FS.•Implement and administer Active Directory Rights Management Services (AD RMS).
- •Implement synchronization between AD DS and Azure AD.
- •Monitor, troubleshoot, and establish business continuity for AD DS services.

Público

This course is primarily intended for existing IT professionals who have some AD DS knowledge and experience and who aim to develop knowledge about identity and access technologies in Windows Server 2016. This would typically include:

- AD DS administrators who are looking to train in identity and access technologies with Windows Server 2012 or Windows Server 2016.
- System or infrastructure administrators with general AD DS experience and knowledge who are looking to cross-train in core and advanced identity and access technologies in Windows Server 2012 or Windows Server 2016.

The secondary audience for this course includes IT professionals who are looking to consolidate their knowledge about AD DS and related technologies, in addition to

IT professionals who want to prepare for the 70-742 exam

Requisitos Previos

efore attending this course, students must have:

- •Some exposure to and experience with AD DS concepts and technologies in Windows Server 2012 or Windows Server 2016.
- Experience working with and configuring Windows Server 2012 or Windows Server 2016
- •Experience and an understanding of core networking technologies such as IP addressing, name resolution, and Dynamic Host Configuration Protocol (DHCP).
- •Experience working with and an understanding of Microsoft Hyper-V and basic server virtualization concepts.
- •An awareness of basic security best practices.
- •Hands-on working experience with Windows client operating systems such as Windows 7, Windows 8, Windows 8.1, or Windows 10.
- •Basic experience with the Windows PowerShell command-line interface.

Programa

Module 1: Installing and configuring domain controllers

This module describes the features of AD DS and how to install domain controllers (DCs). It also covers the considerations for deploying DCs.

Lessons Lab : Deploying and administering AD DS

•Overview of AD DS •Deploying AD DS

•Overview of AD DS domain controllers•Deploying domain controllers by performing domain controller cloning

•Deploying a domain controller •Administering AD DS

After completing this module, students will be able to:

- •Describe AD DS and its main components.
- •Describe the purpose and roles of domain controllers.
- •Describe the considerations for deploying domain controllers.Module 2: Managing objects in AD DS

This module describes how to use various techniques to manage objects in AD DS. This includes creating and configuring user, group, and computer objects.

Lessons

·Managing user accounts

•Managing groups in AD DS Lab : Managing AD DS objects

•Managing computer objects in AD DS •Creating and managing groups in AD DS

•Using Windows PowerShell for AD DS administration•Creating and configuring user accounts in AD DS

•Implementing and managing OUs

•Managing computer objects in AD DS

Lab: Administering AD DS

- •Delegate administration for OUs
- •Creating and modifying AD DS objects with Windows PowerShellAfter completing this module, students will be able to:
- •Manage user accounts in AD DS.
- •Manage groups in AD DS.
- •Manage computer objects in AD DS.
- •Use Windows PowerShell for AD DS administration.
- •Implement and manage OUs.
- ·Administer AD DS.

Module 3: Advanced AD DS infrastructure management

This module describes how to plan and implement an AD DS deployment that includes multiple domains and forests. The module provides an overview of the components in an advanced AD DS deployment, the process of implementing a distributed AD DS environment, and the procedure for configuring AD DS trusts.

Lessons

- •Overview of advanced AD DS deployments Lab: Domain and trust management in AD DS
- •Deploying a distributed AD DS environment•Implementing forest trusts
- Configuring AD DS trusts
- •Implementing child domains in AD DS
 - •Describe the components of an advanced AD DS deployment.
 - •Deploy a distributed AD DS environment..

After completing this module, students will be able to: Configure AD DS trusts.

Module 4: Implementing and administering AD DS sites and replication

This module describes how to plan and implement an AD DS deployment that includes multiple locations. The module explains how replication works in a Windows Server 2016 AD DS environment.

Lab: Implementing AD DS sites and replication

essons • Modifying the default site

Overview of AD DS replication
 Configuring AD DS sites
 Configuring AD DS replication

•Configuring and monitoring AD DS replication•Monitoring and troubleshooting AD DS replication
•Describe how AD DS replication works.

•Configure AD DS sites to help optimize authentication and replication traffic.

After completing this module, students will be able to: Configure and monitor AD DS replication.

Module 5: Implementing Group Policy

This module describes how to implement a GPO infrastructure. The module provides an overview of the components and technologies that compose the Group Policy framework.

Lessons

Lessons

- Introducing Group Policy
- •Implementing and administering GPOs Lab : Implementing a Group Policy infrastructure
- •Group Policy scope and Group Policy processing•Creating and configuring GPOs
- •Troubleshooting the application of GPOs •Managing GPO scope

Lab: Troubleshooting Group Policy infrastructure

Verify GPO application

•Troubleshooting GPOs After completing this module, students will be able to:

- •Explain what Group Policy is.
- •Implement and administer GPOs.
- •Describe Group Policy scope and Group Policy processing.
- •Troubleshoot GPO application.

Module 6: Managing user settings with Group Policy

This module describes how to configure Group Policy settings and Group Policy preferences. This includes implementing administrative templates, configuring folder redirection and scripts, and configuring Group Policy preferences.

Lab: Managing user settings with GPOs

•Implementing administrative templates

- •Using administrative templates to manage user settings
- •Implement settings by using Group Policy preferences
- •Configuring Folder Redirection, software installation, and scripts•Configuring Folder Redirection
- •Configuring Group Policy preferences •Planning Group Policy (optional)

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•Implement administrative templates.

•Configure Folder Redirection, software installation, and scripts.

After completing this module, students will be able to: Configure Group Policy preferences.

Module 7: Securing Active Directory Domain Services

This module describes how to configure domain controller security, account security, password security, and Group Managed Service Accounts (gMSA).

Lessons

 Securing domain controllers Lab: Securing AD DS

 Implementing account security •Implementing security policies for accounts, passwords, and administrative groups

 Implementing audit authentication Deploying and configuring an RODC •Configuring managed service accounts•Creating and associating a group MSA

•Secure domain controllers. •Implement account security. •Implement audit authentication.

After completing this module, students will be able to: Configure managed service accounts (MSAs).

Module 8: Deploying and managing AD CS

This module describes how to implement an AD CS deployment. This includes deploying, administering, and troubleshooting CAs. Lessons

 Deploying CAs Lab: Deploying and configuring a two-tier CA hierarchy

 Administering CAs •Deploying an offline root CA

•Troubleshooting and maintaining CAs•Deploying an enterprise subordinate CA

•Deploy CAs.

•Administer CAs.

After completing this module, students will be able to: Troubleshoot and maintain CAs.

Module 9: Deploying and managing certificates

This module describes how to deploy and manage certificates in an AD DS environment. This involves deploying and managing certificate templates, managing certificate revocation and recovery, using certificates in a business environment, and implementing smart cards.

Lessons

•Deploying and managing certificate templates Lab: Deploying and using certificates

•Managing certificate deployment, revocation, and recovery•Configuring certificate templates •Using certificates in a business environment •Enrolling and using certificates

•Implementing and managing smart cards

Configuring and implementing key recovery

•Deploy and manage certificate templates.

•Manage certificates deployment, revocation, and recovery.

•Use certificates in a business environment.

After completing this module, students will be able to: Implement and manage smart cards

Module 10: Implementing and administering AD FS

This module describes AD FS and how to configure AD FS in a single-organization scenario and in a partner-organization scenario.

Lab: Implementing AD FS Lessons

Overview of AD FS Configuring AD FS prerequisites

•AD FS requirements and planning•Installing and configuring AD FS

•Deploying and configuring AD FS •Configuring an internal application for AD

•Web Application Proxy Overview •Configuring AD FS for federated business partners

·Describe AD FS.

•Explain how to deploy AD FS.

•Explain how to implement AD FS for a single organization.

•Explain how to extend AD FS to external clients.

After completing this module, students will be able to: Implement single sign-on (SSO) to support online services.

Module 11: Implementing and administering AD RMS

This module describes how to implement an AD RMS deployment. The module provides an overview of AD RMS, explains how to deploy and manage an AD RMS infrastructure, and explains how to configure AD RMS content protection.

Lessons

Lab: Implementing an AD RMS infrastructure

 Overview of AD RMS Installing and configuring AD RMS •Deploying and managing an AD RMS infrastructure•Configuring AD RMS templates

 Configuring AD RMS content protection •Using AD RMS on clients

•Describe AD RMS.

•Deploy and manage an AD RMS infrastructure. .

After completing this module, students will be able to: Configure AD RMS content protection.

Module 12: Implementing AD DS synchronization with Microsoft Azure AD

This module describes how to plan and configure directory syncing between Microsoft Azure Active Directory (Azure AD) and onpremises AD DS. The modules describes various sync scenarios, such as Azure AD sync, AD FS and Azure AD, and Azure AD Connect.

Lessons

- •Planning and preparing for directory synchronization
- •Implementing directory synchronization by using Azure AD Connect
- •Managing identities with directory synchronization

Lab: Configuring directory synchronization

- •Preparing for directory synchronization
- Configuring directory synchronization
- •Managing Active Directory users and groups and monitoring directory synchronization

After completing this module, students will be able to:

- •Plan and prepare for directory synchronization.
- •Implement directory synchronization by using Microsoft Azure Active Directory Connect (Azure AD Connect).
- •Manage identities with directory synchronization.

Module 13: Monitoring, managing, and recovering AD DS

This module describes how to monitor, manage, and maintain AD DS to help achieve high availability of AD DS. Lessons

Monitoring AD DS

Lab: Recovering objects in AD DS

Managing the Active Directory database

·Backing up and restoring AD DS

- •Active Directory backup and recovery options for AD DS and other identity and access solutions•Recovering objects in AD DS After completing this module, students will be able to:
- •Monitor AD DS.
- •Manage the Active Directory database.
- •Describe the backup and recovery options for AD DS and other identity access solutions.

Fechas Programadas

A petición. Gracias por contactarnos.

Información Adicional

Esta formación también está disponible en modalidad presencial. Por favor contáctenos para más información.