

## Identity with Windows Server 2016 (20742)

- **Formato do curso:** Presencial e Live Training
- **Localidade:** Porto
- **Data:** 14 Dez. 2020 a 18 Dez. 2020
- **Preço:** 1680€
- **Horário:** Laboral - das 09h30 às 17h30
- **Duração:** 35 horas

This five-day instructor-led course teaches IT Pros 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 how to deploy other Active Directory server roles such as Active Directory Federation Services (AD FS) and Active Directory Certificate Services (AD CS).

### Destinatários

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.

### Pré-requisitos

- 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.
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## Objetivos

- 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.
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## Programa

**Module 1: Installing and configuring DCs** This module describes features of AD DS and how to install domain controllers (DCs). It also covers the considerations for deploying DCs. Lessons

- Overview of AD DS
- Overview of AD DS DCs
- Deploying DCs

Lab : Deploying and administering AD DS

- Deploying AD DS
- Deploying a DC by performing DC cloning
- Administering AD DS by using Active Directory Administrative Center

**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

- Managing computer accounts
- Using Windows PowerShell for AD DS administration
- Implementing and managing organizational units

Lab : Deploying and administering AD DS

- Creating and configuring user accounts in AD DS
- Creating and configuring groups in AD DS
- Managing computer objects in AD DS

Lab : Administering AD DS

- Delegating administration for a branch office
- Creating user accounts and groups by using Windows PowerShell

**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
- Deploying a distributed AD DS environment
- Configuring AD DS trusts

Lab : Domain and trust management in AD DS

- Implementing child domains in AD DS
- Implementing forest 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. Lessons

- Overview of AD DS replication
- Configuring AD DS sites
- Configuring and monitoring AD DS replication

Lab : Managing and implementing AD DS sites and replication

- Modifying the default site
- Creating additional sites and subnets
- Configuring AD DS replication
- Monitoring and troubleshooting 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

- 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

- Creating and configuring GPOs
- Managing GPO scope

Lab : Troubleshooting a Group Policy infrastructure Verify GPO application Troubleshooting GPOs **Module 6: Managing user settings with GPOs** 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. Lessons

- Implementing administrative templates
- Configuring Folder Redirection and scripts
- Configuring Group Policy preferences

Lab : Managing user settings with GPOs

- Using administrative templates to manage user settings
- Implement settings by using Group Policy preferences
- Configuring Folder Redirection
- Planning Group Policy (optional)

**Module 7: Securing AD DS** This module describes how to configure domain controller security, account security, password security, and Group Managed Service Accounts (gMSA). Lessons

- Securing domain controllers
- Implementing account security
- Audit authentication
- Configuring managed service accounts (MSAs)

Lab : Securing AD DS

- Implementing security policies for accounts and passwords
- Implementing administrative security policies
- Deploying and configuring a read-only domain controller (RODC)
- Creating and associating a gMSA

**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
- Administering CAs
- Troubleshooting and maintaining CAs

Lab : Deploying and configuring a two-tier CA hierarchy

- Deploying an offline root CA
- Deploying an enterprise subordinate CA

**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
- Managing certificate deployment, revocation, and recovery
- Using certificates in a business environment
- Implementing and managing smart cards

Lab : Deploying certificates

- Configuring certificate templates
- Enrolling and using certificates
- Configuring and implementing key recovery

**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. Lessons

- Overview of AD FS
- AD FS requirements and planning
- Deploying and configuring AD FS
- Overview of Web Application Proxy

Lab : Implementing AD FS

- Configuring AD FS prerequisites
- Installing and configuring AD FS
- Configuring AD FS for a single organization
- Configuring AD FS for federated business partners

**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

- Overview of AD RMS
- Deploying and managing an AD RMS infrastructure
- Configuring AD RMS content protection

Lab : Implementing an AD RMS infrastructure

- Installing and configuring AD RMS
- Configuring AD RMS templates
- Using AD RMS on clients

**Module 12: Implementing AD DS synchronization with Azure AD** This module describes how to plan and

configure directory syncing between Microsoft Azure Active Directory (Azure AD) and on-premises 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

**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
- Managing the AD DS database
- Recovering AD DS objects

Lab : Recovering objects in AD DS

- Backing up and restoring AD DS
- Recovering objects in AD DS