

# MWS3-4 - MOC 20742 - IDENTITY WITH WINDOWS SERVER 2016

Categoria: **Windows Server 2016**

## INFORMAZIONI SUL CORSO



Durata:  
**5 Giorni**



Categoria:  
**Windows Server 2016**



Qualifica Istruttore:  
**Microsoft Certified  
Trainer**



Dedicato a:  
**Professionista IT**



Produttore:  
**Microsoft**

## OBIETTIVI

Installare e configurare i controller di dominio.

Gestire gli oggetti di dominio Active Directory utilizzando sia strumenti grafici che di Windows PowerShell.

Implementare Active Directory in ambienti complessi.

Implementare siti di dominio Active Directory e configurarne e gestirne la replica.

Implementare e gestire oggetti Criteri di gruppo (GPO).

Gestire le impostazioni utente mediante GPO.

Mettere in sicurezza un dominio Active Directory e i relativi account utente.

Implementare e gestire una gerarchia di autorità di certificazione (CA) con Active Directory.

Implementare e gestire i certificati.

Implementare e amministrare AD FS.

Implementare e amministrare i Directory Rights Management Services (RMS) attivi.

Implementare la sincronizzazione tra Active Directory e Azure AD.

Monitorare, risolvere i problemi e stabilire la continuità operativa per i servizi di dominio Active Directory.

## PREREQUISITI

Esposizione e l'esperienza con alcuni concetti AD e tecnologie DS in Windows Server 2012 o Windows Server 2016.

Esperienza lavorativa e configurazione di Windows Server 2012 o Windows Server 2016

Esperienza e comprensione delle tecnologie di rete fondamentali come l'indirizzamento IP, la risoluzione dei nomi e Dynamic Host Configuration Protocol (DHCP).

Esperienza lavorativa con e comprensione di Microsoft Hyper-V e dei concetti di base della virtualizzazione dei server.

Consapevolezza delle buone pratiche di sicurezza di base.

Esperienza lavorativa con i sistemi operativi client Windows, come Windows 7, Windows 8, Windows 8.1 o Windows 10.

Esperienza di base con l'interfaccia della riga di comando di Windows PowerShell.

**Module 1: Installing and configuring domain controllers**

Overview of AD DS

Overview of AD DS domain controllers

Deploying a domain controller

**Lab : Deploying and administering AD DS**

Deploying AD DS

Deploying domain controllers by performing domain controller cloning

Administering AD DS

After completing this module, students will be able to:

Describe AD DS and its main components.

Describe the purpose of domain controllers and their roles.

Describe the considerations for deploying domain controllers.

**Module 2: Managing objects in AD DS**

Managing user accounts

Managing groups in AD DS

Managing computer objects in AD DS

Using Windows PowerShell for AD DS administration

Implementing and managing OUs

**Lab : Managing AD DS objects**

Creating and managing groups in AD DS

Creating and configuring user accounts in AD DS

Managing computer objects in AD DS

**Lab : Administering AD DS**

Delegate administration for OUs

Creating and modifying AD DS objects with Windows PowerShell

After 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**

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 forest trusts

Implementing child domains in AD DS

After completing this module, students will be able to:

Describe the components of an advanced AD DS deployment.

Explain how to deploy a distributed AD DS environment.

Explain how to deploy a distributed AD DS environment.

Explain how to configure AD DS trusts.

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#### **Module 4: Implementing and administering AD DS sites and replication**

Overview of AD DS replication

Configuring AD DS sites

Configuring and monitoring AD DS replication

#### **Lab : 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

After completing this module, students will be able to:

Describe how AD DS replication works.

Describe how AD DS replication works.

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

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

Configure and monitor AD DS replication.

Configure and monitor AD DS replication.

#### **Module 5: Implementing Group Policy**

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 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**

Implementing administrative templates

Configuring Folder Redirection, Software Installation, 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)

After completing this module, students will be able to:

Implement administrative templates.

Configure Folder Redirection, software installation, and scripts.  
Configure Group Policy preferences.

## **Module 7: Securing Active Directory Domain Services**

Securing domain controllers  
Implementing account security  
Implementing audit authentication  
Configuring managed service accounts

### **Lab : Securing AD DS**

Implementing security policies for accounts, passwords, and administrative groups  
Deploying and configuring an RODC  
Creating and associating a group MSA  
After completing this module, students will be able to:  
Secure domain controllers.  
Implement account security.  
Implement audit authentication.  
Configure managed service accounts (MSAs).

## **Module 8: Deploying and managing AD CS**

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

## **Module 9: Deploying and managing certificates**

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

### **Lab : Deploying and using certificates**

Configuring certificate templates  
Enrolling and using certificates  
Configuring and implementing key recovery  
After completing this module, students will be able to:  
Deploy and manage certificate templates.  
Manage certificates deployment, revocation, and recovery.  
Use certificates in a business environment.  
Implement and manage smart cards

## **Module 10: Implementing and administering AD FS**

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 an internal application for AD

Configuring AD FS for federated business partners

After completing this module, students will be able to:

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.

Implement single sign-on (SSO) to support online services.

**Module 11: Implementing and administering AD RMS**

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

After completing this module, students will be able to:

Describe AD RMS.

Describe usage scenarios for AD RMS.

Describe the AD RMS components.

**Module 12: Implementing AD DS synchronization with Microsoft Azure AD**

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

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**

Monitoring AD DS

Managing the Active Directory database

Active Directory backup and recovery options for AD DS and other identity and access solutions

**Lab : Recovering objects in AD DS**

Backing up and restoring AD DS

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.

## INFO

**Materiale didattico:** Materiale didattico in formato digitale

**Costo materiale didattico:** incluso nel prezzo del corso a Calendario

**Natura del corso:** Operativo (previsti lab su PC)