

Identity with Windows Server 2016

Course: 20742

Course Details

Audience(s): IT Professional(s)

Technology: Windows Server 2016

Duration: 40 Hours

ABOUT THIS COURSE

This forty-hours 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).

AUDIENCE PROFILE

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.

Course Content

Module 1: Installing and configuring domain controllers

Lessons

- Overview of AD DS
- Overview of AD DS domain controllers
- Deploying a domain controller

Lab: Deploying and administering AD DS

Module 2: Managing objects in AD DS

Lessons

- 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

Lab: Administering AD DS

Module 3: Advanced AD DS infrastructure management

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

Module 4: Implementing and administering AD DS sites and replication

Lessons

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

Lab: Implementing AD DS sites and replication

Module 5: Implementing Group Policy

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

Lab: Troubleshooting Group Policy infrastructure

Module 6: Managing user settings with Group Policy

Lessons

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

Lab: Managing user settings with GPOs

Module 7: Securing Active Directory Domain Services

Lessons

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

Lab: Securing AD DS

Module 8: Deploying and managing AD CS

Lessons

- Deploying CAs
- Administering CAs
- Troubleshooting and maintaining CAs

Lab: Deploying and configuring a two-tier CA hierarchy

Module 9: Deploying and managing certificates

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 and using certificates

Module 10: Implementing and administering AD FS

Lessons

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

Lab: Implementing AD FS

Module 11: Implementing and administering AD RMS

Lessons

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

Lab: Implementing an AD RMS infrastructure

Module 12: Implementing AD DS synchronization with Microsoft Azure AD

Lessons

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

Lab: Configuring directory synchronization

Module 13: Monitoring, managing, and recovering AD DS

Lessons

- 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

At This Course Completion

At completing this course the student 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.