Introduction

The **Windows Server 2016 Identity Management** training is designed for IT professionals who have a foundational understanding of **Active Directory Domain Services (AD DS)** and are seeking to deepen their knowledge of identity and access management within Windows Server 2016. This course is perfect for infrastructure administrators, AD DS administrators, and system administrators who are responsible for identity management in a Windows environment.

This course will cover essential topics, including **synchronization of AD DS with Azure Active Directory**, **Group Policy Objects (GPOs)**, **Active Directory Federation Services (AD FS)**, and **Active Directory Rights Management Services (AD RMS)**. Participants will learn how to protect data access, streamline identity management, and ensure a secure and highly available **Windows Server environment**.

Targeted Groups

This course is ideal for:

- **IT Professionals** who have prior AD DS knowledge and want to expand their expertise in identity and access technologies in **Windows Server 2016**.
- **Directory Administrators** looking to advance their understanding of identity and access technologies.
- **System or Infrastructure Administrators** familiar with **Windows Server 2012** or **Windows Server 2016**, who wish to cross-train in core and advanced identity management concepts.
- Professionals seeking to consolidate their knowledge of **AD DS** and related technologies, especially within the context of **Windows Server environments**.

Course Objectives

Upon completion of this course, participants will be able to:

- **Install and configure domain controllers** in a Windows Server environment.
- **Manage AD DS objects** using **graphical tools** and **Windows PowerShell**.
- Implement **AD DS** in **complex environments**.
- **Configure and manage AD DS sites** and replication.
- **Implement and manage Group Policy Objects (GPOs)**.
- **Secure Active Directory Domain Services** and **user accounts**.
- **Deploy and manage certificates** with **Active Directory Certificate Services (AD CS)**.
- **Administer AD FS** for identity federation.
- **Implement synchronization** between **AD DS** and **Azure AD**.
- **Monitor, troubleshoot, and ensure business continuity** for **AD DS services**.

Targeted Competencies

By the end of this course, participants will be proficient in:

- Managing **AD DS objects**.
- Administering **AD DS** and resolving issues within it.
- **Troubleshooting Group Policy** infrastructure.
- **Managing User Settings** through **Group Policy Objects**.
- **Recovering AD DS objects** and performing **directory synchronization**.

Course Content

Unit 1: Installing and Configuring Domain Controllers (DCs)

- Overview of **AD DS** and **Domain Controllers (DCs)**.
- **Deploying a domain controller** within an organization.

Unit 2: Managing Objects in AD DS

- Managing **user accounts**, **groups**, and **computer accounts**.
- **Using Windows PowerShell** for **AD DS administration**.
- Implementing and managing **organizational units** (OUs).

Unit 3: Advanced AD DS Infrastructure Management

- Deploying **distributed AD DS** environments.
- Configuring **AD DS trusts** between domains and forests.

Unit 4: Implementing and Administering AD DS Sites and Replication

- Configuring **AD DS sites** for optimal performance.
- Managing and **monitoring AD DS replication**.

Unit 5: Implementing Group Policy

- Introduction to **Group Policy**.
- **Implementing and administering GPOs**.
- Troubleshooting **GPO application**.

Unit 6: Managing User Settings with Group Policy

- **Implementing administrative templates** and **Folder Redirection**.
- Using **Group Policy preferences** to manage settings.

Unit 7: Securing Active Directory Domain Services

- **Securing domain controllers** and implementing **account security**.
- Configuring **Managed Service Accounts (MSAs)** and **audit authentication**.

Unit 8: Deploying and Managing AD CS

- **Deploying Certificate Authorities (CAs)**.

- Administering and troubleshooting **CAs**.

Unit 9: Deploying and Managing Certificates

- Managing **certificate templates**.
- **Deploying and managing certificates**, revocation, and recovery.
- Implementing **smart cards** for secure authentication.

Unit 10: Implementing and Administering AD FS

- Overview of **Active Directory Federation Services (AD FS)**.
- **Deploying and configuring AD FS** for identity federation.
- Introduction to **Web Application Proxy**.

Unit 11: Implementing and Administering AD RMS

- Overview of **Active Directory Rights Management Services (AD RMS)**.
- Deploying and configuring **AD RMS** for **content protection**.

Unit 12: Implementing AD DS Synchronization with Azure AD

- Planning and preparing for **directory synchronization** with **Azure AD Connect**.
- **Managing identities** with directory synchronization.

Unit 13: Monitoring, Managing, and Recovering AD DS

- Monitoring **AD DS** for performance and security.
- Managing the **Active Directory database**.
- **Directory backup and recovery** strategies to ensure business continuity.

This course prepares participants for a comprehensive understanding of **identity management** within **Windows Server 2016**, positioning them to effectively implement and manage secure identity and access solutions in the enterprise environment.