



## Identity with Windows Server 2016:

### **COURSE OVERVIEW**

In this course, you will learn how to deploy and configure Active Directory Domain Services (AD DS) in a distributed environment. Additionally, you will learn how to implement Group Policy, perform backup and restore, as well as monitor and troubleshoot AD-related issues with Windows Server 2016. This course teaches you how to deploy other AD server roles such as Active Directory Federation Services (AD FS) and Active Directory Certificate Services (AD CS).

### **WHAT YOU'LL LEARN**

- 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

### **OUTLINE**

#### **1. Installing and Configuring Domain Controllers (DCs)**

- Overview of AD DS
- Overview of AD DS domain controllers

- Deploying domain controller

## **2. Managing Objects in AD DS**

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

## **3. Advanced AD DS Infrastructure Management**

- Overview of advanced AD DS deployments
- Deploying a distributed AD DS environment
- Configuring AD DS trusts

## **4. Implementing and Administering AD DS Sites and Replication**

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

## **5. Implementing Group Policy**

- Introducing Group Policy
- Implementing and administering GPOs
- Group Policy scope and Group Policy processing
- Troubleshooting the application of GPOs

## **6. Managing User Settings with Group Policy**

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

## **7. Securing Active Directory Domain Services**

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

## **8. Deploying and Managing AD CS**

- Deploying CAs
- Administering CAs
- Troubleshooting and maintaining CAs

## **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

### **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

### **11. Implementing and Administering AD RMS**

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

### **12. Implementing AD DS Synchronization with Azure AD**

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

### **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

## **PREREQUISITES**

- 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

## **WHO SHOULD ATTEND**

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:

- Active Directory 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.