

KOENIG SOLUTIONS • COURSE OUTLINE

Identity with Windows Server (55344AC)

Learn to install, configure and secure Active Directory Domain Services and related identity technologies on Windows Server 2019.

5 Days

40 HOURS

13

MODULES

45

TOPICS

41

HANDS-ON ACTIVITIES

COURSE OVERVIEW

The Identity with Windows Server (55344AC) course, also known as 70-742, is designed to impart knowledge and skills related to identity management with Windows Server 2019. It focuses on the critical aspects of installing, maintaining, and managing Active Directory Domain Services (AD DS) and the technologies associated with it. The course is structured around various modules that guide learners through the installation and configuration of domain controllers, management of AD DS objects, advanced infrastructure management, AD DS replication, Group Policy implementation, and securing AD DS. Additionally, the course covers the deployment and management of Active Directory Certificate Services (AD CS), Active Directory Federation Services (AD FS), Active Directory Rights Management Services (AD RMS), and the synchronization of AD DS with Microsoft Azure AD. It also includes lessons on monitoring, managing, and recovering AD DS. Learners will benefit from hands-on experience through labs, gaining practical skills to manage and optimize the identity infrastructure in a Windows Server 2019 environment, making them adept at handling real-world challenges associated with identity with Windows Server 2019.

WHO THIS COURSE IS FOR

The Identity with Windows Server (55344AC) course equips IT professionals with advanced skills in managing and securing Active Directory (AD) environments. Target Audience:

System Administrators

Active Directory Administrators

IT Infrastructure Managers

Network Administrators

Security Professionals

Systems Engineers

IT Professionals aiming for a career in AD DS

Technical Support Specialists

Professionals preparing for Microsoft certifications related to Windows Server and Active Directory

IT Consultants

Information Security Analysts

What You Will Learn

- Install and configure domain controllers in AD DS
- Manage user, group, computer and OU objects in AD DS
- Plan multi-domain and multi-forest AD DS infrastructures
- Configure AD DS sites and monitor replication
- Implement and troubleshoot Group Policy objects
- Configure Folder Redirection, scripts and GPO preferences
- Secure domain controllers, accounts and managed service accounts
- Deploy and administer AD CS, AD FS and AD RMS

COURSE SYLLABUS

13 Modules, 45 Topics

01

3 Activities

Installing and Configuring Domain Controllers

This module describes the features of AD DS and how to install domain controllers (DCs). It also covers the considerations for deploying DCs.

TOPICS

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

02

3 Activities

2 Activities

Managing Objects in AD DS

This module explains how to manage objects in AD DS, including creating and configuring user, group, and computer objects.

TOPICS

- 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

03**2 Activities**

Advanced AD DS Infrastructure Management

This module explains how to plan and implement an AD DS deployment with multiple domains and forests.

TOPICS

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

04**4 Activities**

Implementing and Administering AD DS Sites and Replication

This module explains how to plan and implement an AD DS deployment that includes multiple locations and how replication works in AD DS.

TOPICS

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

05**2 Activities****2 Activities**

Implementing Group Policy

This module explains how to implement a GPO infrastructure and provides an overview of the Group Policy framework.

TOPICS

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

06**3 Activities**

Managing User Settings with Group Policy

This module explains how to configure Group Policy settings and preferences, including folder redirection and scripts.

TOPICS

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

07**3 Activities**

Securing Active Directory Domain Services

This module explains how to secure domain controllers, accounts, passwords, and Group Managed Service Accounts (GMSA).

TOPICS

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

08**2 Activities**

Deploying and Managing AD CS

This module explains how to implement and manage AD CS deployments, including deploying and troubleshooting CAs.

TOPICS

Deploying CAs · Administering CAs · Troubleshooting and maintaining CAs

09**3 Activities**

Deploying and Managing Certificates

This module explains how to deploy and manage certificates in an AD DS environment.

TOPICS

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

10**4 Activities**

Implementing and Administering AD FS

This module explains how to configure AD FS in single-organization and partner-organization scenarios.

TOPICS

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

11**3 Activities**

Implementing and Administering AD RMS

This module explains how to implement and manage AD RMS deployments.

TOPICS

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

12**3 Activities**

Implementing AD DS Synchronization with Microsoft Azure AD

This module explains how to plan and configure directory synchronization between Azure AD and on-premises AD DS.

TOPICS

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

13**2 Activities**

Monitoring, Managing, and Recovering AD DS

This module explains how to monitor, manage, and maintain AD DS to ensure high availability.

TOPICS

- Monitoring AD DS
- Managing the Active Directory database
- Active Directory backup and recovery options for AD DS and other identity and access solutions

Practise What You Learn

#	MODULE	ACTIVITY
01	Installing and Configuring Domain Controllers	LAB 1: DEPLOYING AND ADMINISTERING AD DS ■ Deploying AD DS ■ Deploying domain controllers by performing domain controller cloning ■ Administering AD DS
02	Managing Objects in AD DS	LAB 1: 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 2: ADMINISTERING AD DS ■ Delegate administration for OUs ■ Creating and modifying AD DS objects with Windows PowerShell
03	Advanced AD DS Infrastructure Management	LAB 1: DOMAIN AND TRUST MANAGEMENT IN AD DS ■ Implementing forest trusts ■ Implementing child domains in AD DS
04	Implementing and Administering AD DS Sites and Replication	LAB 1: 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
05	Implementing Group Policy	LAB 1: IMPLEMENTING A GROUP POLICY INFRASTRUCTURE ■ Creating and configuring GPOs ■ Managing GPO scope LAB 2: TROUBLESHOOTING GROUP POLICY INFRASTRUCTURE ■ Verify GPO application ■ Troubleshooting GPOs
06	Managing User Settings with Group Policy	LAB 1: MANAGING USER SETTINGS WITH GPOS ■ Using administrative templates to manage user settings ■ Implementing settings by using Group Policy preferences ■ Configuring Folder Redirection
07	Securing Active Directory Domain Services	LAB 1: SECURING AD DS ■ Implementing security policies for accounts, passwords, and administrative groups ■ Deploying and configuring an RODC ■ Creating and associating a group MSA
08	Deploying and Managing AD CS	LAB 1: DEPLOYING AND CONFIGURING A TWO-TIER CA HIERARCHY ■ Deploying an offline root CA ■ Deploying an enterprise subordinate CA

#	MODULE	ACTIVITY
09	Deploying and Managing Certificates	LAB 1: DEPLOYING AND USING CERTIFICATES ■ Configuring certificate templates ■ Enrolling and using certificates ■ Configuring and implementing key recovery
10	Implementing and Administering AD FS	LAB 1: 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
11	Implementing and Administering AD RMS	LAB 1: IMPLEMENTING AN AD RMS INFRASTRUCTURE ■ Installing and configuring AD RMS ■ Configuring AD RMS templates ■ Using AD RMS on clients
12	Implementing AD DS Synchronization with Microsoft Azure AD	LAB 1: CONFIGURING DIRECTORY SYNCHRONIZATION ■ Preparing for directory synchronization ■ Configuring directory synchronization ■ Managing Active Directory users and groups and monitoring directory synchronization
13	Monitoring, Managing, and Recovering AD DS	LAB 1: RECOVERING OBJECTS IN AD DS ■ Backing up and restoring AD DS ■ Recovering objects in AD DS

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

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Live Online Classes (ILO)

Fly-Me-A-Trainer (FMAT)

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1-on-1 Training

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