

€ TRAINING

Active Directory





Active Directory

Introduction:

This training program provides participants with essential knowledge and skills in Active Directory AD. It covers foundational principles, architecture, and practical applications of AD in managing network resources and user identities within organizations.

Program Objectives:

At the end of this program, participants will be able to:

- Understand the role and importance of Active Directory in network environments.
- Implement and manage Active Directory domains, forests, and trust relationships.
- Configure and administer user accounts, groups, and organizational units OUs.
- Implement Group Policy Objects GPOs for centralized management of users and computers.
- Troubleshoot common Active Directory issues and perform routine maintenance tasks.

Targeted Audience:

- System Administrators.
- Network Engineers.
- IT Professionals responsible for directory services and user management.
- Security Administrators.

Program Outline:

Unit 1:

Introduction to Active Directory:

- Overview of directory services and Active Directory.
- Evolution and versions of Active Directory.
- Roles and components: Domain Controllers, Global Catalog, FSMO roles.
- Active Directory schema and replication.

- Integration with other Microsoft services DNS, DHCP.

Unit 2:

Active Directory Domain Services AD DS:

- Planning and deploying Active Directory domains and forests.
- Managing Active Directory objects: users, groups, computers.
- Organizational Units OUs and delegation of administrative tasks.
- Trust relationships: types and configurations.
- Implementing Active Directory Lightweight Directory Services AD LDS.

Unit 3:

Group Policy Management:

- Introduction to Group Policy Objects GPOs.
- Creating and managing GPOs for centralized management.
- Security settings and configurations through GPOs.
- Software deployment and updates using GPOs.
- Troubleshooting Group Policy application and issues.

Unit 4:

Active Directory Certificate Services AD CS:

- Overview of Active Directory Certificate Services.
- Deploying Certificate Authorities CAs and certificate templates.
- Certificate enrollment and renewal processes.
- Managing certificate revocation and renewal.
- Integrating AD CS with other applications and services.

Unit 5:

Active Directory Federation Services AD FS:



- Introduction to Active Directory Federation Services.
- Configuring trusts with other federated services.
- Implementing single sign-on SSO for web applications.
- Integrating AD FS with cloud services Azure AD.
- Troubleshooting and monitoring AD FS operations.