BATCH : 146 - 149

LESSON : **Windows Server**

DATE : 18.07.2023

SUBJECT : **Active Directory Objects**

ZOOM GİRİŞLERİNİZİ LÜTFEN **LMS** SİSTEMİ ÜZERİNDEN YAPINIZ

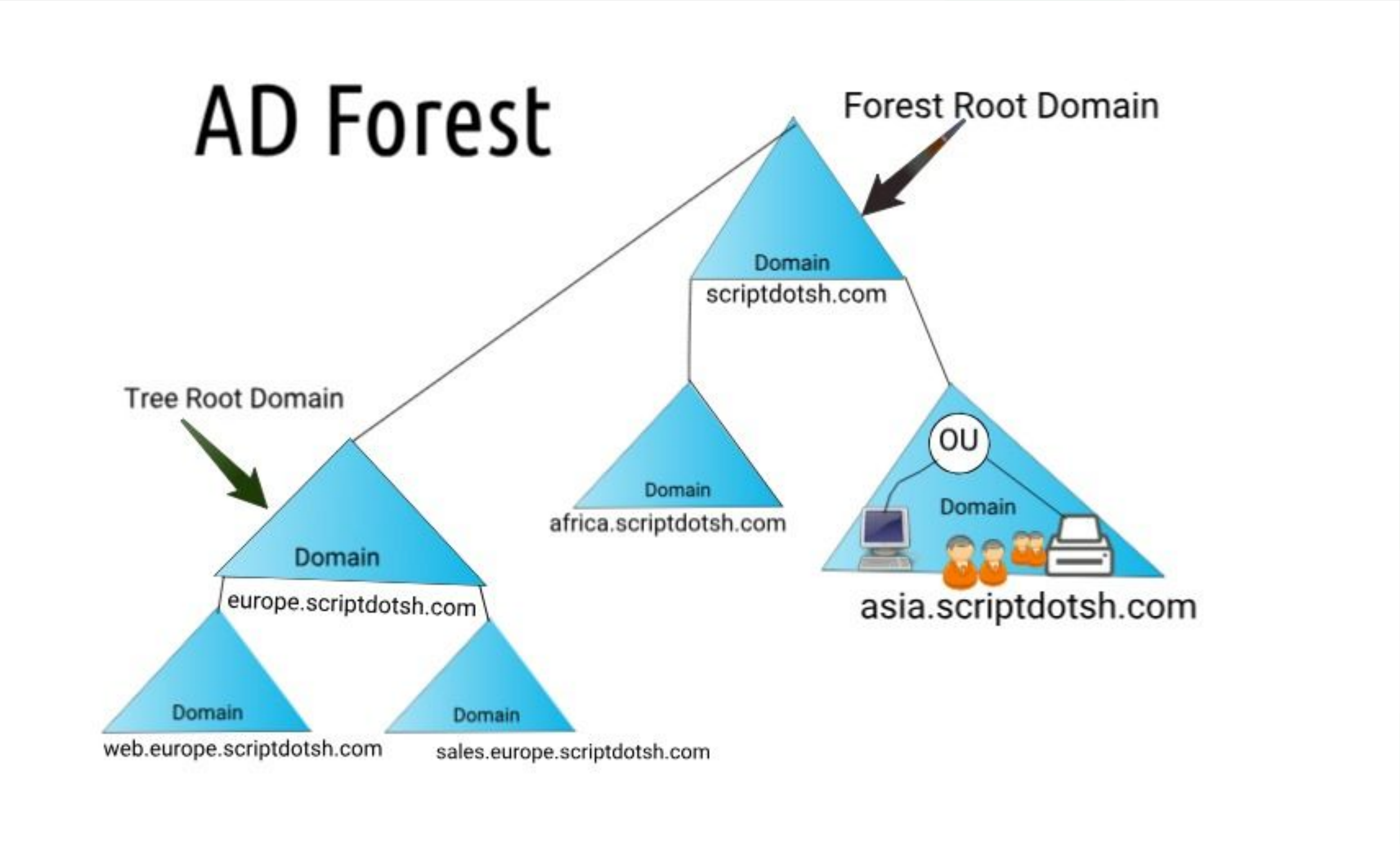
Windows Server Day 2

- **Bugünkü dersin pre-class materyalini incelediniz mi?**

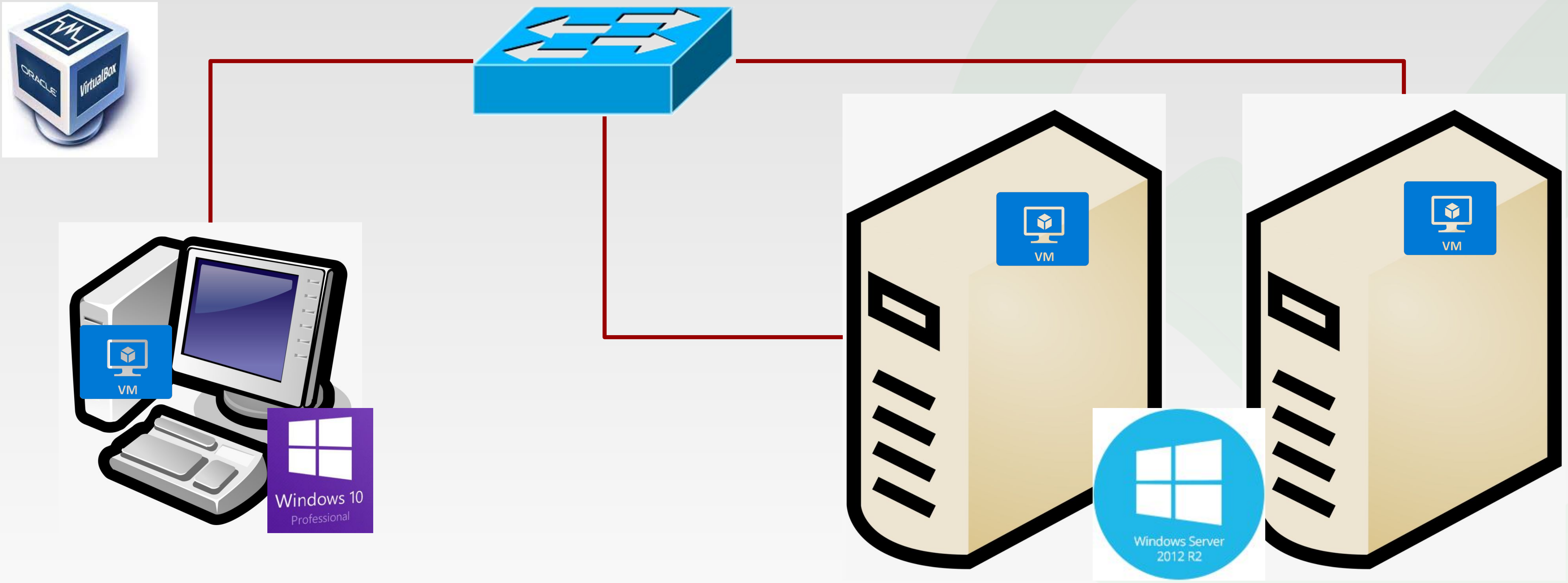
Previously

- Active Directory
- AD Domain
- Tree
- Forest
- OU, User, Computer
- Domain Controller
- Roles and Features
- Post-Installation Configuration
- Server
- Server Manager

What Is AD DS Forest?



Lab Environment



Contents

- Domain Controller
- Joining a Domain
- AD Objects
- Users
- Groups
- Computers

Module Overview

Managing User Accounts
Managing Groups
Managing Computer Accounts
Delegating Administration

Managing User Accounts

AD DS Administration Tools
Creating User Accounts
Configuring User Account Attributes
Creating User Profiles

AD DS Administration Tools

To manage AD DS objects, you can use the following graphical tools:

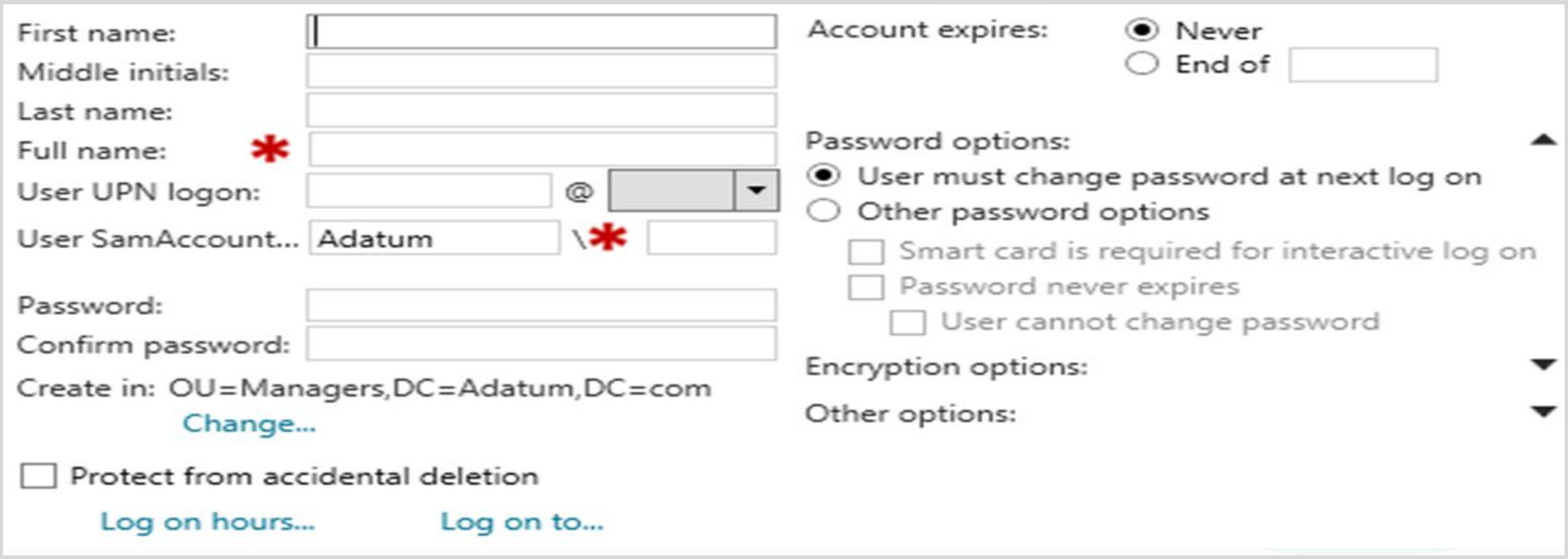
- Active Directory Administration snap-ins
- Active Directory Administrative Center

You can also use the following command-line tools:

- Active Directory module in Windows PowerShell
- Directory Service commands

Creating User Accounts

The Account section of the Active Directory Administrative Center/ Create User window



First name:

Middle initials:

Last name:

Full name: *

User UPN logon: @

User SamAccount... Adatum *

Password:

Confirm password:

Create in: OU=Managers,DC=Adatum,DC=com

Change...

□ Protect from accidental deletion

Log on hours... Log on to...

Account expires: ● Never ○ End of

Password options:

● User must change password at next log on

○ Other password options

□ Smart card is required for interactive log on

□ Password never expires

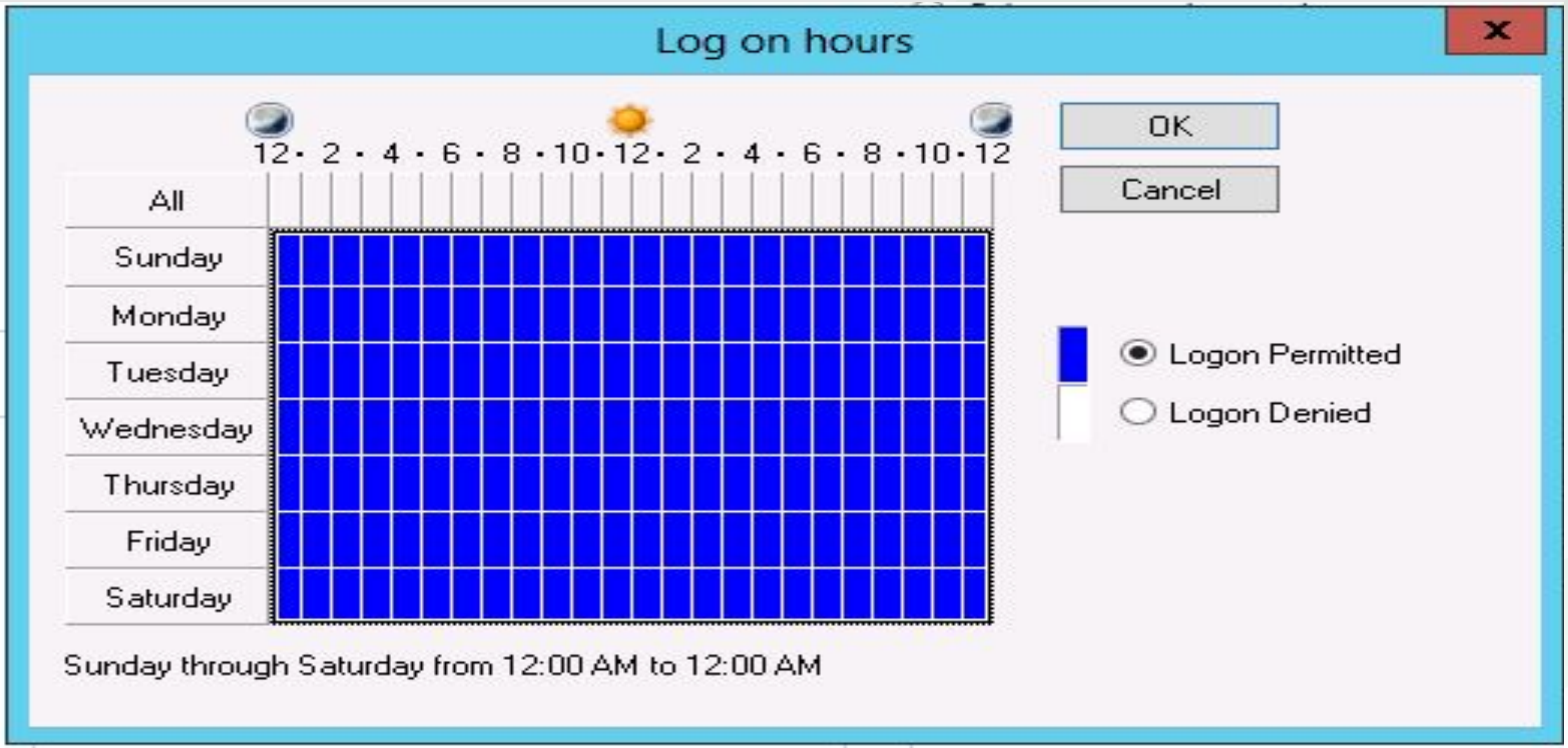
□ User cannot change password

Encryption options:

Other options:

Configuring User Account Attributes

The Log on hours dialog box



Log on hours

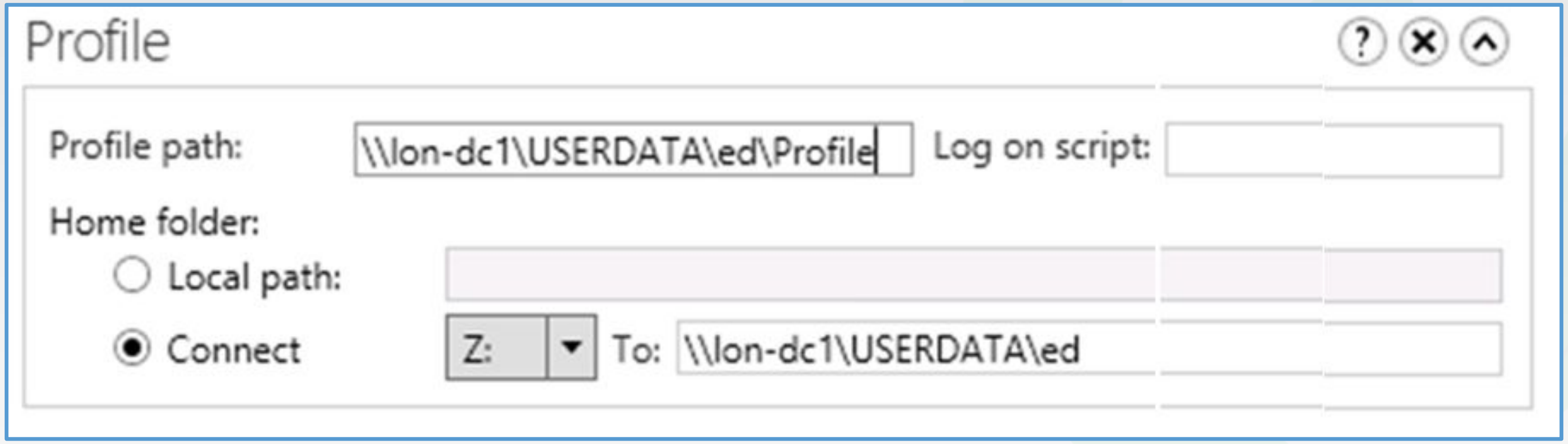
● Logon Permitted

○ Logon Denied

Sunday through Saturday from 12:00 AM to 12:00 AM

Creating User Profiles

The Profile section of the User Properties window



Profile

Profile path: \\lon-dc1\USERDATA\ed\Profile

Log on script:

Home folder:

○ Local path:

● Connect Z: To: \\lon-dc1\USERDATA\ed

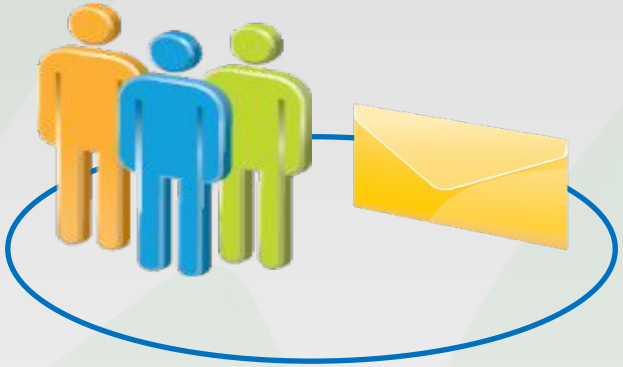
Managing Groups

Group Types
Group Scopes
Implementing Group Management
Default Groups
Special Identities
Demonstration: Managing Groups

Group Types

- **Distribution groups**
  - Used only with email applications
  - Not security-enabled (no SID); cannot be given permissions
- **Security groups**
  - Security principal with a SID; can be given permissions
  - Can also be email-enabled

Both security groups and distribution groups can be converted to the other type of group



Default Groups

- Carefully manage the default groups that provide administrative privileges, because these groups:
  - Typically have broader privileges than are necessary for most delegated environments
  - Often apply protection to their members

Group	Location
Enterprise Admins	Users container of the forest root domain
Schema Admins	Users container of the forest root domain
Administrators	Built-in container of each domain
Domain Admins	Users container of each domain
Server Operators	Built-in container of each domain
Account Operators	Built-in container of each domain
Backup Operators	Built-in container of each domain
Print Operators	Built-in container of each domain
Cert Publishers	Users container of each domain

Special Identities

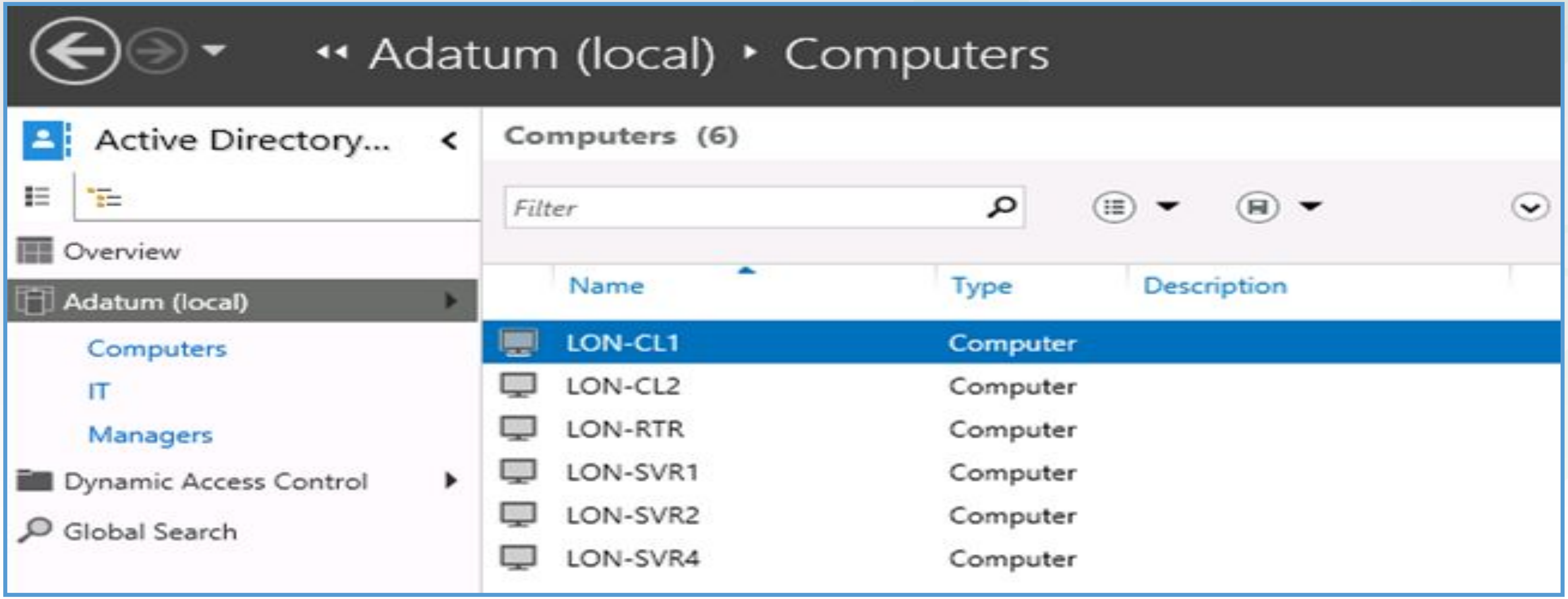
- Special identities:
  - Are groups for which membership is controlled by the operating system
  - Can be used by the Windows Server operating system to provide access to resources:
    - Based on the type of authentication or connection
    - Not based on the user account
- Important special identities include:

- Anonymous Logon
- Authenticated Users
- Everyone
- Interactive
- Network
- Creator Owner

Computers Container

Active Directory Administrative Center, opened to the Adatum (local)\Computers container

Distinguished Name is cn=Computers,DC=Adatum,DC=com



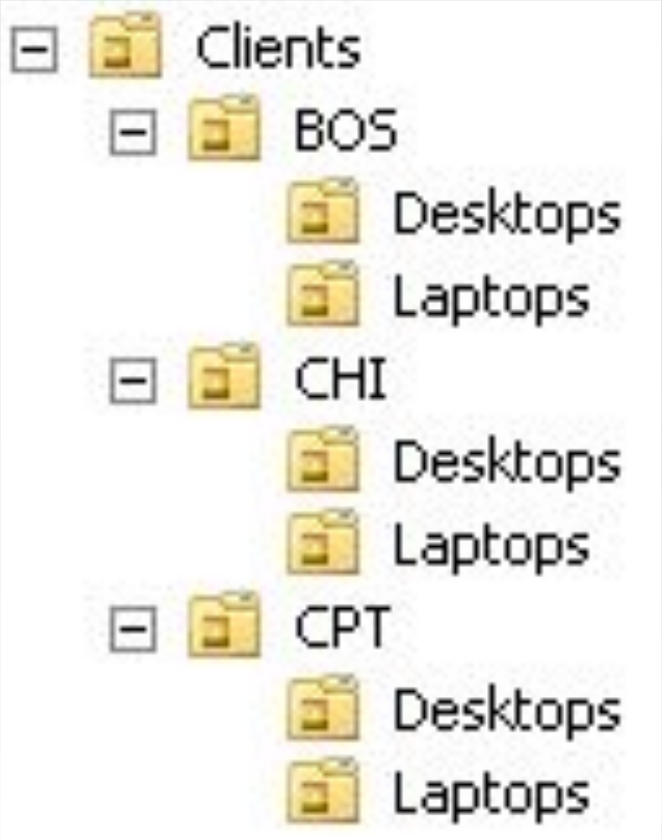
Computers (6)

Name	Type	Description
LON-CL1	Computer	
LON-CL2	Computer	
LON-RTR	Computer	
LON-SVR1	Computer	
LON-SVR2	Computer	
LON-SVR4	Computer	

Specifying the Location of Computer Accounts

- Best practice is to create OUs for computer objects
  - Servers
    - Typically subdivided by server role
  - Client computers
    - Typically subdivided by region

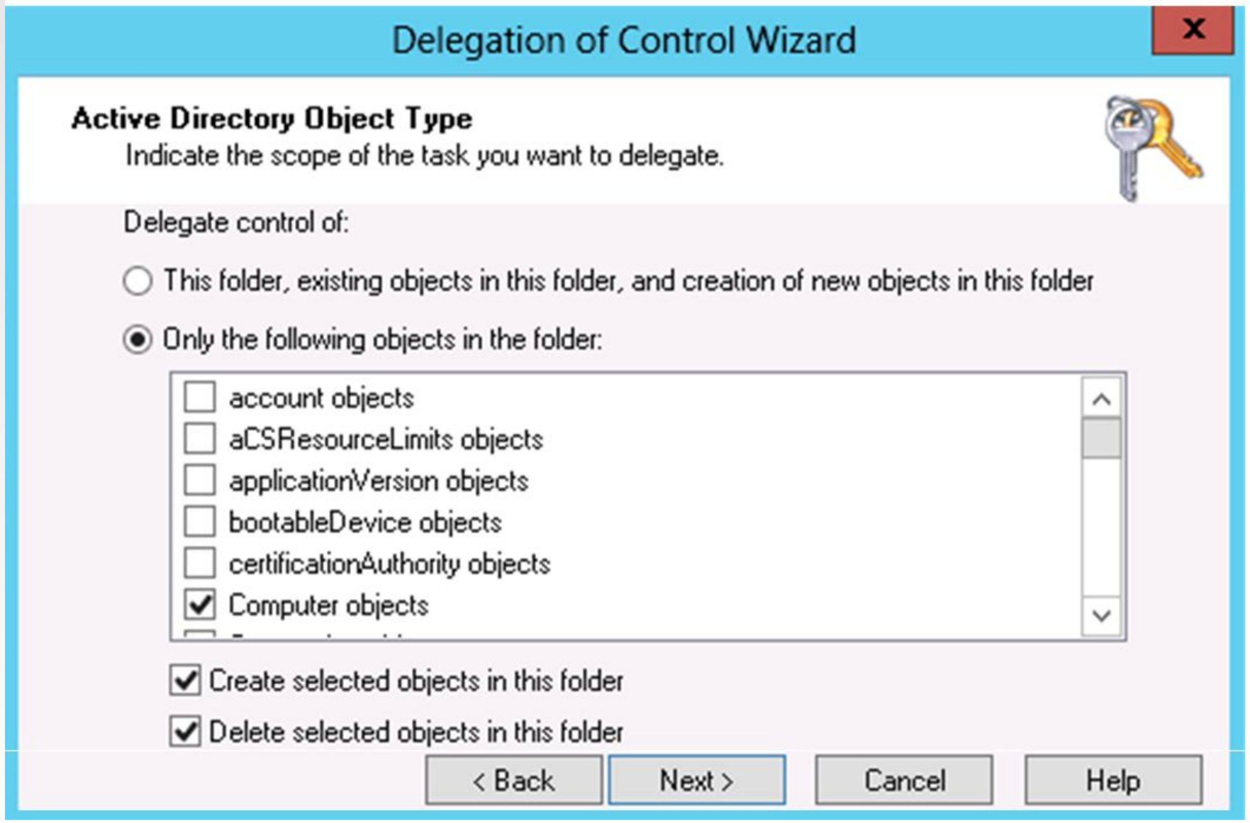
- Divide OUs:
  - By administration
  - To facilitate configuration with Group Policy



Controlling Permissions to Create Computer Accounts

The Delegation of Control Wizard window

The administrator is creating a custom delegation for computer objects



Delegation of Control Wizard

Active Directory Object Type

Indicate the scope of the task you want to delegate.

Delegate control of:

○ This folder, existing objects in this folder, and creation of new objects in this folder

● Only the following objects in the folder:

- □ account objects
- □ aCSResourceLimits objects
- □ applicationVersion objects
- □ bootableDevice objects
- □ certificationAuthority objects
- ☑ Computer objects

☑ Create selected objects in this folder

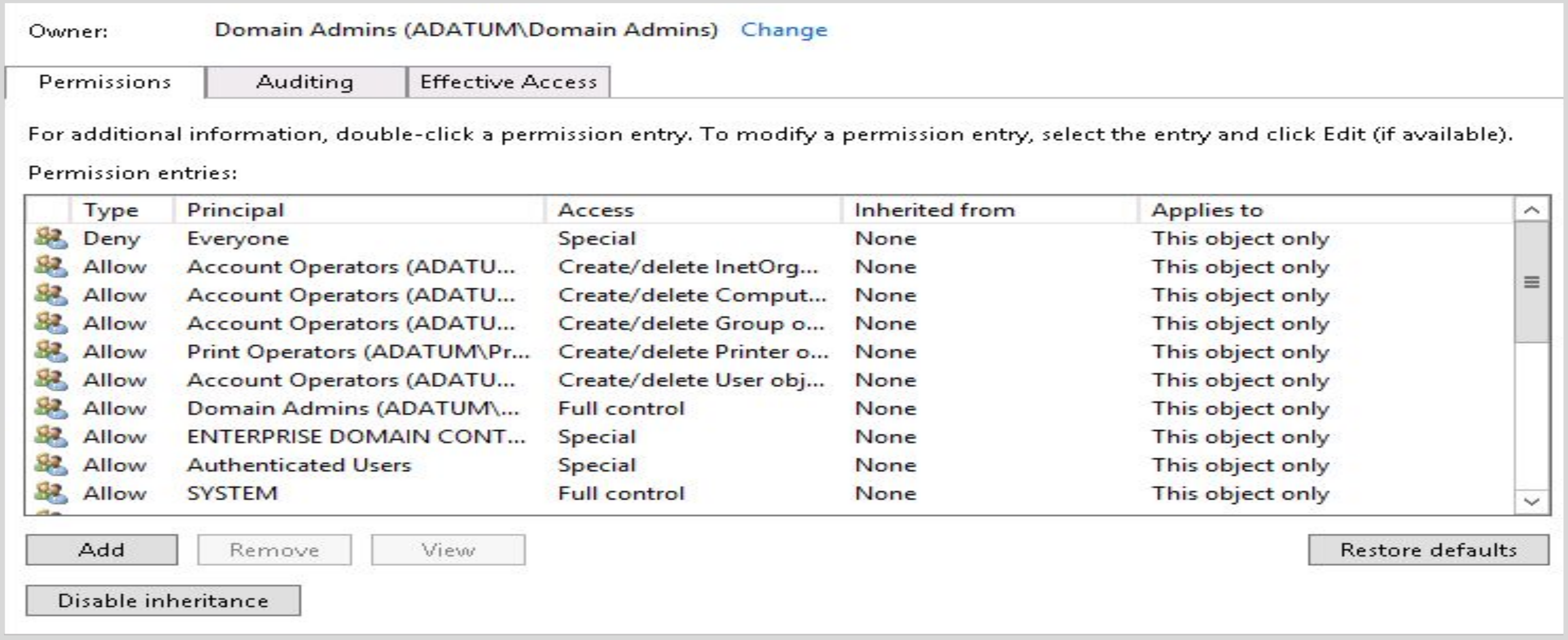
☑ Delete selected objects in this folder

Computer Accounts and Secure Channels

- Computers have accounts
  - Account Name and password
  - Used to create a secure channel between the computer and a domain controller
- Scenarios in which a secure channel can be broken
  - Reinstalling a computer, even with same name, generates a new SID and password
  - Restoring a computer from an old backup, or rolling back a computer to an old snapshot
  - Computer and domain disagree about what the password is

AD DS Permissions

Advanced Security Settings for IT

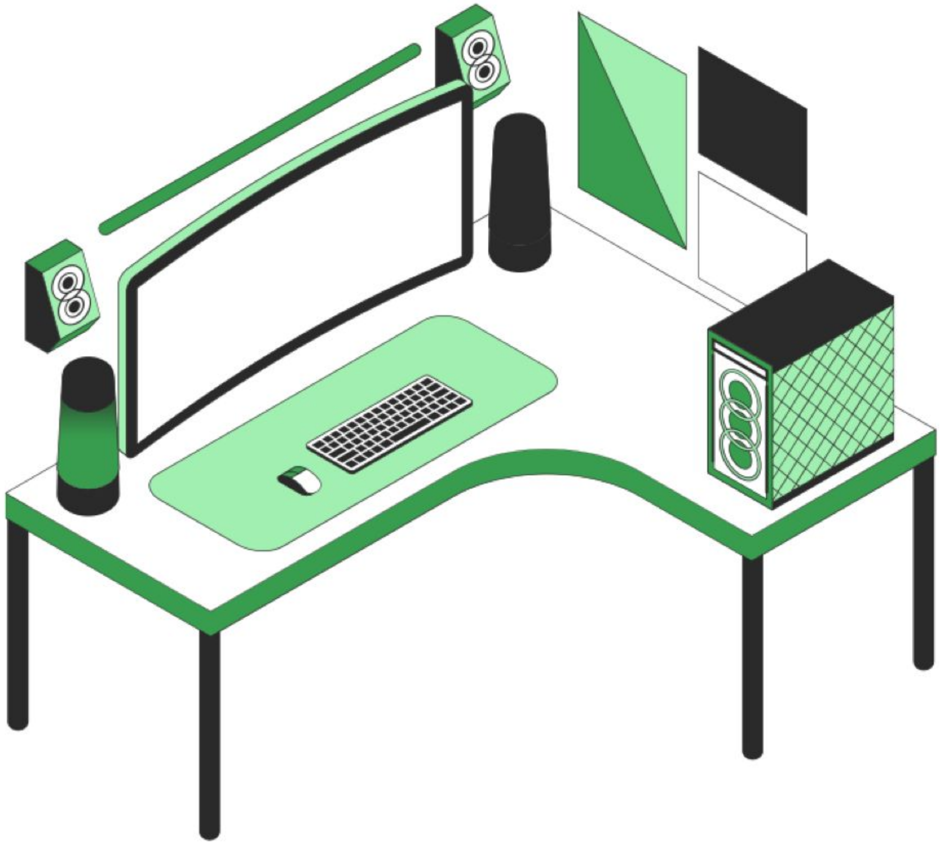


Owner: Domain Admins (ADATUM\Domain Admins) Change

For additional information, double-click a permission entry. To modify a permission entry, select the entry and click Edit (if available).

Permission entries:

Type	Principal	Access	Inherited from	Applies to
Deny	Everyone	Special	None	This object only
Allow	Account Operators (ADATU...	Create/delete InetOrg...	None	This object only
Allow	Account Operators (ADATU...	Create/delete Comput...	None	This object only
Allow	Account Operators (ADATU...	Create/delete Group o...	None	This object only
Allow	Print Operators (ADATUM\Pr...	Create/delete Printer o...	None	This object only
Allow	Account Operators (ADATU...	Create/delete User obj...	None	This object only
Allow	Domain Admins (ADATUM\...	Full control	None	This object only
Allow	ENTERPRISE DOMAIN CONT...	Special	None	This object only
Allow	Authenticated Users	Special	None	This object only
Allow	SYSTEM	Full control	None	This object only



Do you have any questions?

Send it to us! We hope you learned something new.