BATCH : BATCH 85

LESSON : **Windows Server**

DATE : 19.07.2022

SUBJECT : **AD Services Objects**

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Module Overview

- Managing User Accounts
- Managing Groups
- Managing Computer Accounts
- Delegating Administration

Lesson 1: 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:

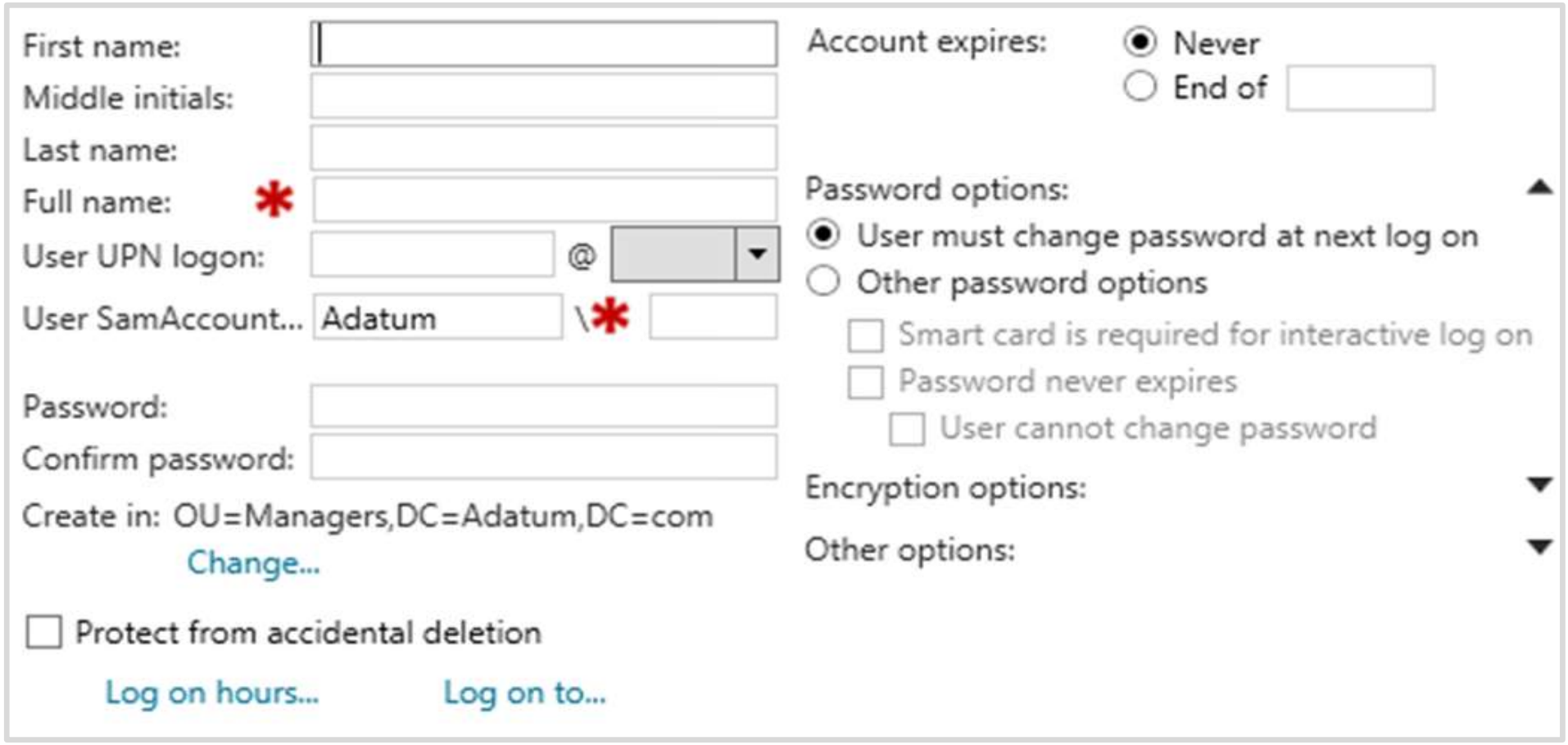
- Active Directory Administration snap-ins
- Active Directory Administrative Center

You can also use the following command-line tools:

- Active Directory module in Windows PowerShell
- Directory Service commands

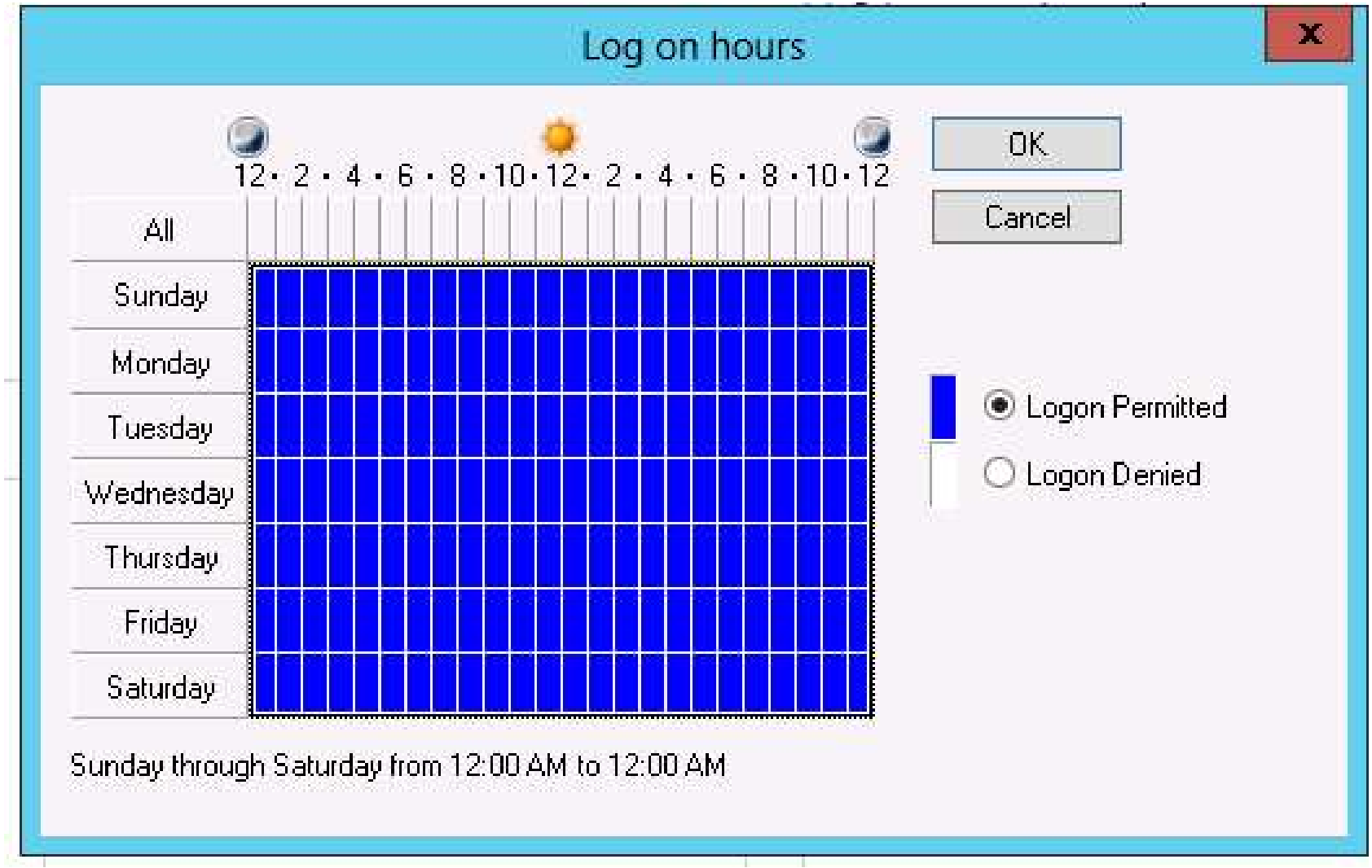
Creating User Accounts

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



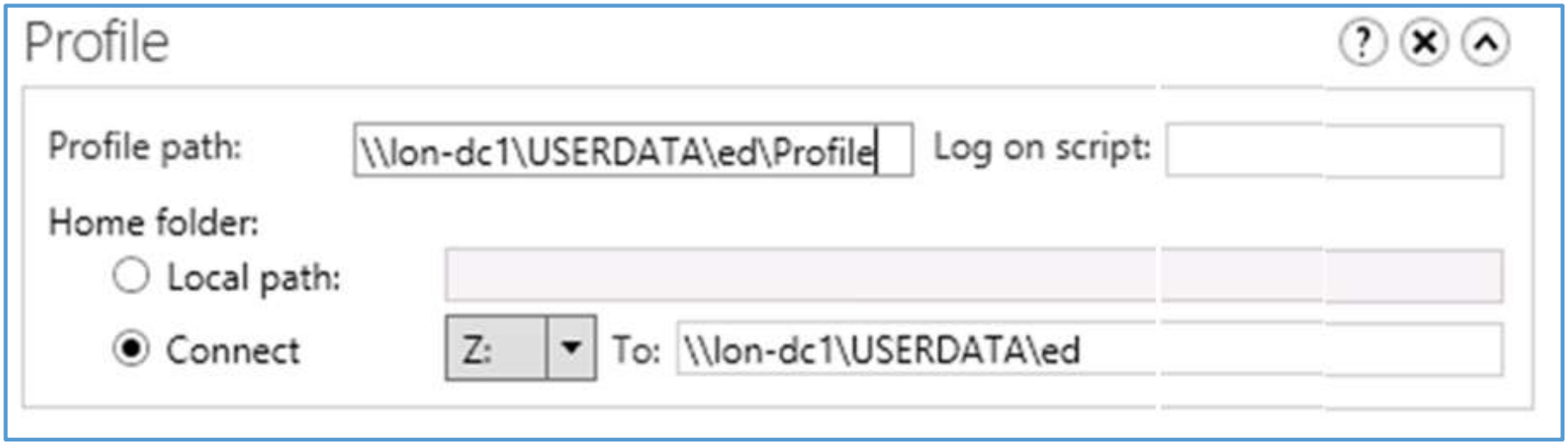
Configuring User Account Attributes

The Log on hours dialog box



Creating User Profiles

The Profile section of the User Properties window



Lesson 2: 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

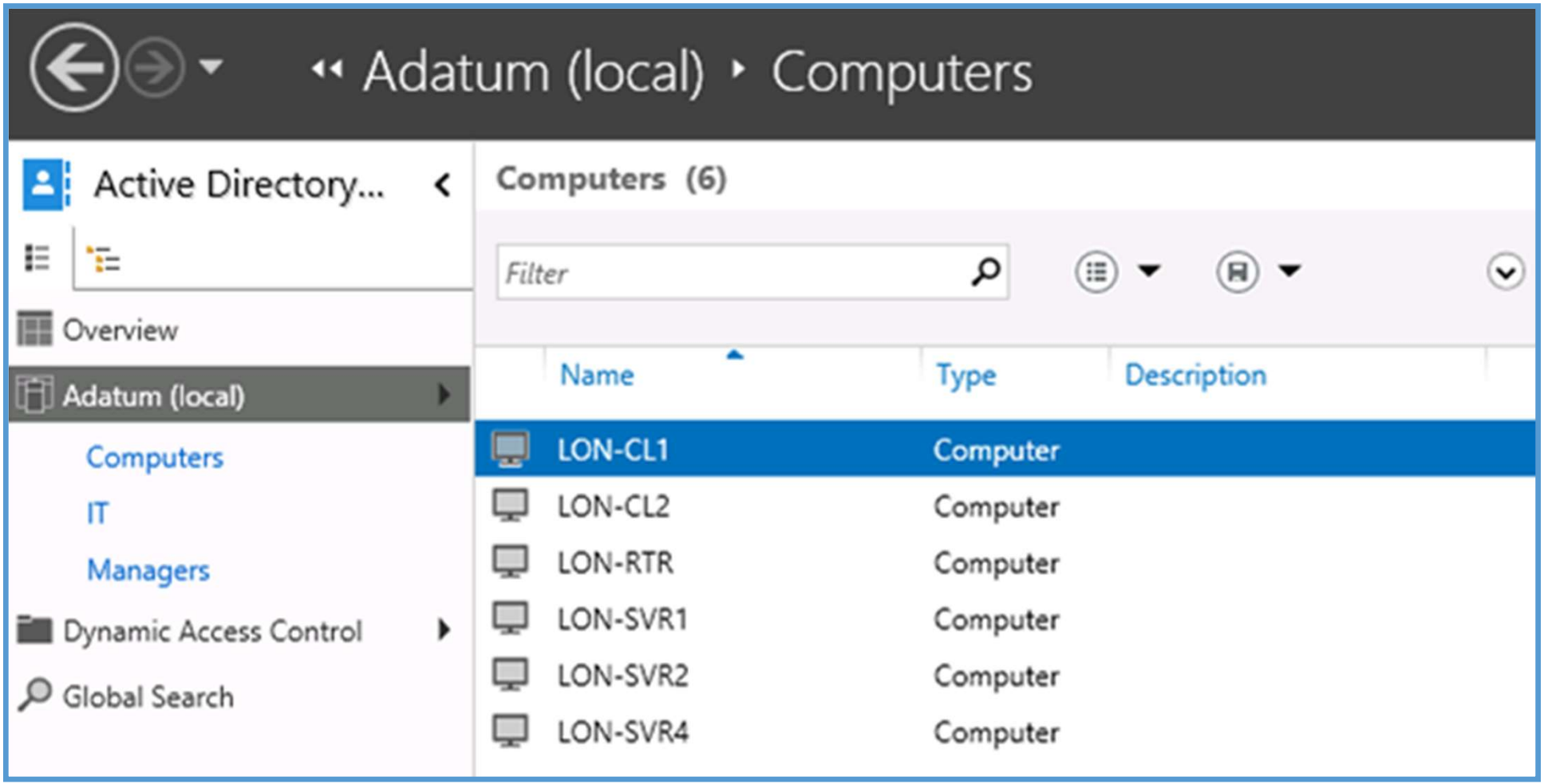
Special Identities

- 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

What Is the Computers Container?

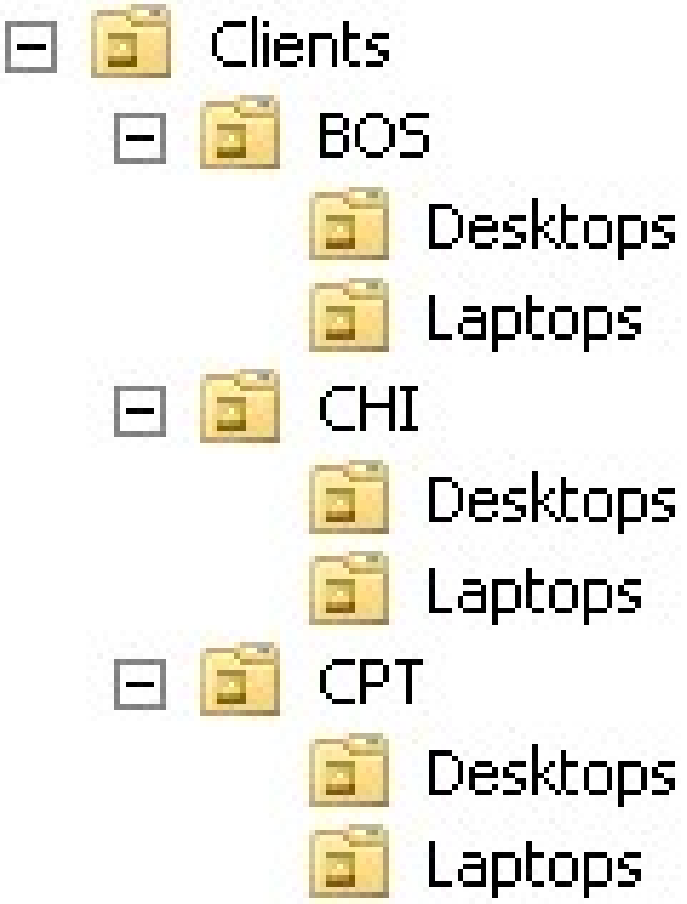
Active Directory Administrative Center, opened to the Adatum (local)\Computers container

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



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

Computer Accounts and Secure Channels

- Computers have accounts
  - sAMAccountName 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

Permissions | Auditing | Effective Access

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

Add | Remove | View | Restore defaults

Disable inheritance

AD DS Permissions

- Advanced Security Settings for IT