# Administering Active Directory Administering W2003 Server

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#### Learning Objective

- Default Domain policies
- Creating OUs and managing their objects
- Controlling access to AD objects
- Administering User accounts
- Administering Group accounts

# **Default Domain Controller Policies** By default only members of the following groups could log on to the LAN using a DC computer:

- Administrators
- Account OperatorsPrint OperatorsServer Operators

- Backup Operators
- By default, members of all of the following groups could access a DC from the network:
  - AdministratorsAuthenticated Users
  - Everyone

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#### Password policy:

- 24 passwords remembered
- Minimum password age: 1 day
- Maximum password age: 42 days
- Minimum password length: 7 characters
- Password must meet complexity requirements

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#### Account lockout policy:

No account lockout for invalid passwords

Common Objects in AD 🛛 🔶				
Computer	Represents a computer on the network. Contains information about a computer that is member of the domain			
Contact	Typically used to represent external people. Represents an account without security permissions. You cannot logon as contact			
Group	Used to simplify management of objects. Can contain users, computers and other groups			
9 Printer	Represents a network printer published in AD. Is actually a pointer to a printer.			
	Represents a user. Contains information needed for login and more.			
Shared Folder	Represents a network share published in AD. Is actually a pointer to the share.			
MSQM	A Message Queuing enables distributed applications running at different times to communicate across networks and with computers that may be offline 5			



#### Command-line tools for managing AD

- dsadd for adding objects such as: ■ user acc., group acc., OUs, etc.
- dsmod for modifying objects attributes
- dsmove for moving objects within AD

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dsrm for removing objects from AD

#### Dsadd user command-line

Syntax:

- Syntax: dsadd user UserDN [-samid SAMName] [-upn UPN] [-fn FirstName] [-mi Initia] [-In LastName] [-display DisplayMame] [-empid Employee/D] [-bwd (Password ']] [-desc. Description] [-memberof Group...] [-difice Office] [-tel PhoneNumber] [-email Email] [-hometel HomePhoneNumber] [-pager PagerNumber] [-emoile CellPhoneNumber] [-fax FaxNumber] [-iptel IPPhoneNumber] [-webpg WebPage] [-title Title] [-dept Department] [-company Company] [-mgr Manager] [-hometi HomeDirectory] [-hmdrv r DriveLetter] [-profile ProfilePath] [-losc ScripPath] [-musthwd (yes [no]] [-canchpwd (yes [no]] [-reversiblepwd (yes [no]] [-pwdneverexpires (yes ] no]] [-actexpires Number/DDays] [-disabled (yes [no]] [-server] -d Domain]] [-u UserName] [-p [Password] \*] [-q] [-u [-uo [-uci]]
- UserDN specifies the distinguished name of the user
- SAMName specifies the <u>SAM account name</u> (e.g. jdoe)
- UPN specifies the user principal name (e.g. jdoe@newcontoso.com) GroupDN specifies the distinguished names of the groups the user belongs to. .

### Creating OUs

- You should create an OU:
  - ► To group objects that require similar administrative tasks. Example: Creating an OU for all temporary employees or for Sales department.
  - ► To delegate administrative control to other users.
- You can create an OU under a domain, under a Domain Controller object, or within another OU
- To create an OU, you must have required permission\* to add OUs in the OU, under the domain, or under the Domain Controller object. 9





# Exercise 1 Create a new OU named LastNameOU (where LastName is your last name). The new OU should be directly under your domain (e.g. group1.mis3200.com or team2.contoso.com) Note: It may take a few minutes before the replication takes place. After replication, all users who are logged onto the domain can see the new OU.

# Exercise 1 (continued)

- Suppose that the replication takes a long time to complete. What if two OUs with the same name are created? Explain what would happen.
- Open the Active Directory Users and Computers snap-in. Click Action/Refresh. How many OUs do you see?

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# Adding objects to OUs

- 1) Open the Active Directory Users and Computers snap-in
- 2) Select the OU you want to add the object to
- 3) Click the Action menu. Point to New
- 4) Click the type of object want to add.
- 5) Enter the appropriate information in the dialog box(es) that appear(s).

#### Exercise 2

Add a new user account and a new group account to the OU you created earlier. It is up to you to choose the name of the user and the name of the group.

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#### Delegating Administrative control of OUs

- 1) Open the Active Directory Users and Computers snap-in
- 2) Select the OU for which you want to delegate control
- 3) Click the Action menu.
- 4) Click Delegate Control to start the wizard
- 5) Follow the instructions.

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Planning new User Accounts 🛛 🛱					
<ul> <li>You should plan the naming conventions for user accounts.</li> </ul>					
Points to consider in determining the naming convention					
Unique user logon name	<ul> <li>Domain user account names must be unique to the directory</li> <li>Local user account names must be unique on the computer</li> </ul>				
20 characters maximum	The field accept more than 20 uppercase/lowercase characters, but W2003 recognizes only the first 20.				
Invalid characters	Invalid characters are: / \ [ ] : ;   = , + * ? < > @ "				

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Logon hours	By default W2003 allows users to access 24/7. You can determine the logon days/hours.	]
Computers from which users can logon	By default, users can logon to the domain by using any computer in the domain. For security, you can restrict users to logging on only from their own computers.	
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Common Administrative tasks			
Disabling and Enabling User Accounts	Account can be disabled for security reasons.		
Lock/Unlocking User Accounts	Account can be locked when the user violates a Group policy.		
Resetting Passwords	No need to know the user password. Right-click the appropriate user account, and click Reset Password		
Moving User Accounts in a domain	You can move an account from one OU to another. Object permissions assigned directly to the user account move with the user account. Permissions inherited from parent object no longer apply.		
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Administering user accounts: User Profiles				
Local User	Default user profile stored in ntuser.dat			
Profile	Available on the local computer.			
	Created when the user logs on for the first time			
Roaming User	Set on a network server. Stored in ntuser.dat			
Profile	<ul> <li>No matter what computer you use to logon, W2003</li> </ul>			
	apply your user profile settings to that computer.			
	<ul> <li>When you log off, W2003 copies changes made back to the server</li> </ul>			
Mandatory	Read-Only Roaming User Profile stored in ntuser.man			
Profiles	<ul> <li>When the user logs off, W2003 doesn't save any changes made during the session.</li> </ul>			
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