

# LAB 15

## CREATING AND MANAGING ACTIVE DIRECTORY GROUPS AND ORGANIZATIONAL UNITS

THIS LAB CONTAINS THE FOLLOWING EXERCISES AND ACTIVITIES:

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- |               |                               |
|---------------|-------------------------------|
| Exercise 15.1 | Creating Organizational Units |
| Exercise 15.2 | Creating Domain Local Groups  |
| Exercise 15.3 | Creating Global Groups        |
| Lab Challenge | Nesting Groups                |
| Exercise 15.4 | Delegating Administration     |

### BEFORE YOU BEGIN

The lab environment consists of three servers connected to a local area network, which you will configure to function as the domain controller for a domain called adatum.com. The computers required for this lab are listed in Table 15-1.

Table 15-1  
Computers Required for Lab 15

Computer Operating System Computer Name Domain controller 1 Windows Server 2012 SVR-DC-A  
Member server 2 Windows Server 2012 SVR-MBR-B

Member server 3	Windows Server 2012	SVR-MBR-C
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In addition to the computers, you also require the software listed in Table 15-2 to complete Lab 15.

Table 15-2  
Software Required for Lab 15

Software Location	
Lab 15 student worksheet	Lab15_worksheet.docx (provided by instructor)

## Working with Lab Worksheets

Each lab in this manual requires that you answer questions, take screen shots, and perform other activities that you will document in a worksheet named for the lab, such as Lab15\_worksheet.docx. It is recommended that you use a USB flash drive to store your worksheets, so you can submit them to your instructor for review. As you perform the exercises in each lab, open the appropriate worksheet file, fill in the required information, and save the file to your flash drive.

After completing this lab, you will be able to:

- f* Create AD DS organizational unit objects
- f* Create AD DS group objects
- f* Nest groups
- f* Delegate authority over OUs

Estimated lab time: 55 minutes

## Exercise 15.1 Creating Organizational Units

**Overview** In this exercise, you create new organizational units in the adatum.com domain, named for the cities in which your company has offices.

**Mindset** Under what conditions is it necessary to create a new organizational unit?

Completion time 10 minutes

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1. Log on to the SVR-DC-A computer, which has the Server Manager console open, using the domain Administrator account and the password Pa\$\$w0rd. Select Tools > Active Directory Users and Computers. The Active Directory Users and Computers console appears.
2. In the left pane, expand the adatum.com node.
3. Right-click the adatum.com node and, from the context menu, click New > Organizational Unit. The New Object – Organizational Unit Wizard appears (see Figure 15-1).

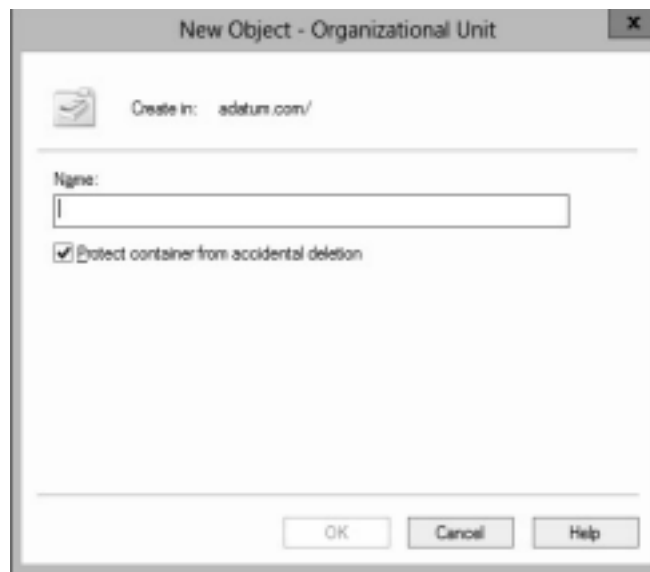


Figure 15-1  
The New Object—Organizational Unit Wizard

4. In the Name text box, type Rome.
  5. Click OK. The wizard creates the Rome OU object.
  6. In Server Manager, click Tools > Active Directory Administrative Center. The Active Directory Administrative Center console appears.
  7. In the left pane, select the adatum (local) node and, in the right pane under Tasks, select New > Organizational Unit. The Create Organizational Unit dialog box appears (see Figure 15-2).
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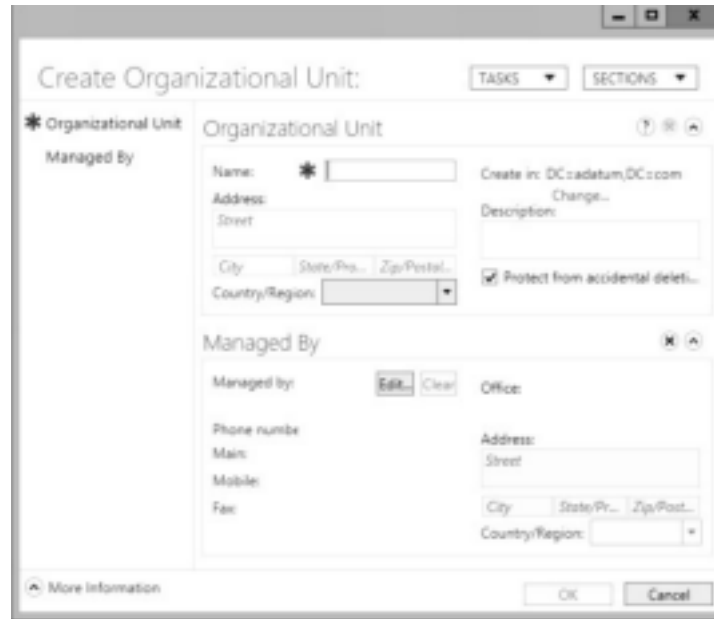


Figure 15-2  
The Create Organizational Unit dialog box

8. In the Name text box, type London and click OK. The new OU appears in the center pane.
9. On the Taskbar, click the Windows PowerShell icon. The Administrator: Windows PowerShell window appears.
10. At the command prompt, type `New-ADOrganizationalUnit –Name Paris` and press Enter.

created?

What must you do to assign settings to the systems in a

11. In the Active Directory Users and Computers console, press F5 to refresh the console until the Paris OU appears.
12. Take a screen shot of the adatum.com domain in the Active Directory Users and Computers console, showing the OU objects you created, by pressing Alt+Prt Scr, and then paste the resulting image into the Lab 15 worksheet file in the page provided by pressing Ctrl+V.

End of exercise. You can leave the windows open for the next exercise.

## Creating Domain Local Groups

### Overview

In this exercise, you create domain local

groups using the Active Directory Users and Computers console.

**Mindset** What is the function of the domain local groups in a group nesting arrangement?

**Completion time** 10 minutes

1. On the SVR-DC-A computer, in the Active Directory Users and Computers console, select the Rome OU you created in Exercise 15.1.
2. Right-click the Rome OU and, from the context menu, click New > Group. The New Object - Group dialog box appears (see Figure 15-3).

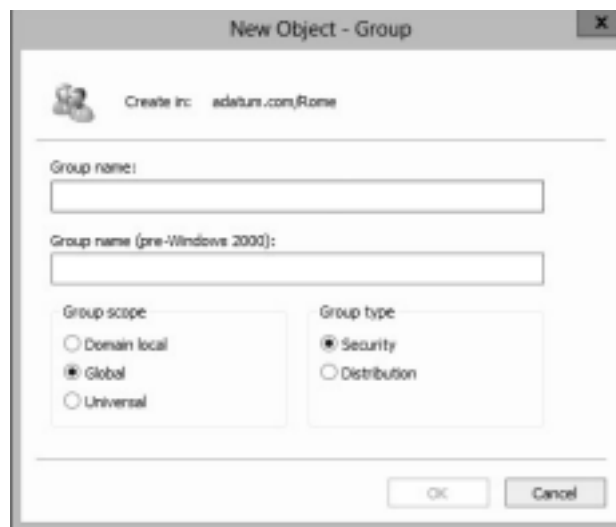


Figure 15-3  
The New Object—Group dialog box

3. In the Group name text box, type Rome Backup.
4. Under Group scope, select the Domain local option and click OK. The new group object appears in the Rome OU.

What must you do to enable the members of the Rome group to perform backup operations on the local system?

5. Repeat steps 2 to 4 to create a domain local group called Rome Printing.
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What must you do to enable the members of the Rome group to manage the queued print jobs on selected printers?

End of exercise. You can leave the windows open for the next exercise.

## Exercise 15.3 Creating Global Groups

Overview using the Active Directory Administrative Center console.  
In this exercise, you create global groups

Mindset What is the function of the global groups in a group nesting arrangement?

Completion time 10 minutes

1. On the SVR-DC-A computer, in the Active Directory Administrative Center console, expand the adatum (local) node in the left pane and select the Rome OU you created in Exercise 15.1.
2. In the right pane, select New > Group. The Create Group dialog box appears (see Figure 15-4).

Figure 15-4  
The Create Group dialog box

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3. In the Group name text box, type Backup Managers.
4. Under Group scope, select Global and click OK. The new group appears in the Rome OU.

5. Repeat steps 2 to 4 to create a global group called Print Managers in the Rome OU. 6.

Repeat steps 2 to 4 to create a global group called Rome Managers in the Rome OU.

End of exercise. You can leave the windows open for the next exercise.

## **Lab Challenge**

**Overview** By nesting groups in AD DS, you can create a system per privileges that allows any number of personnel changes.

Completion time 15 minutes

To complete this challenge, you must nest the groups you created previously in this lab so that the members of the Print Managers group will receive the privileges assigned to the Rome Printing group, and the Backup Managers group will receive the privileges assigned to the Rome Backup group.

List the changes you must make to complete the challenge.

End of exercise. You can leave the windows open for the next exercise.

## **Exercise 15.4 Delegating Administration**

**Overview** Control Wizard to grant Active Directory permissions to specific groups.  
In this exercise, you use the Delegation of

**Mindset** How do you delegate administrative privileges to users without giving them full control?

Completion time 10 minutes

1. On the SVR-DC-A computer, in the Active Directory Users and Computers console, right-click the Rome OU and, from the context menu, select Delegate Control. The Delegation of Control Wizard appears, displaying the Welcome page.
  2. Click Next. The Users or Groups page appears.
  3. Click Add. The Select Users, Computers, or Groups dialog box appears.
  4. In the Enter the object names to select box, type Rome Managers and click OK. The group appears on the Users or Groups list.
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5. Click Next. The Tasks to Delegate page appears (see Figure 15-5).



Figure 15-5  
The Tasks to Delegate page in the Delegation of Control Wizard

6. In the Delegate the following common tasks list, select the following check boxes:
    - Create, delete, and manage user accounts
    - Create, delete, and manage groups
    - Modify the membership of a group
  7. Click Next. The Completing the Delegation of Control Wizard page appears.
  8. Click Finish.
- End of lab.