Task 1: Delegate administration for Branch Administrators

1. Switch to LON-DC1.
2. In Server Manager, click **Tools**, and then click **Active Directory Users and Computers**.
3. In Active Directory Users and Computers, click **Adatum.com**.
4. Right-click **Adatum.com**, point to **New**, and then click **Organizational Unit**.
5. In the **New Object – Organizational Unit** dialog box, in **Name**, type **Branch Office 1**, and then click **OK**.
6. Right-click **Branch Office 1**, point to **New**, and then click **Group**.
7. In the **New Object – Group** dialog box, in **Group name**, type **Branch 1 Help Desk**, and then click **OK**.
8. Repeat steps 6 and 7 using **Branch 1 Administrators** as the new group name.
9. Repeat steps 6 and 7 using **Branch 1 Users** as the new group name.
10. In the navigation pane, click **IT**.
11. In the details pane, right-click **Holly Dickson**, and then click **Move**.
12. In the **Move** dialog box, click **Branch Office 1**, and then click **OK**.
13. Repeat steps 10 through 12 for the following OU’s and users:
   - Development and the user Bart Duncan
   - Managers and the user Ed Meadows
   - Marketing and the user Connie Vrettos
   - Research and the user Barbara Zighetti
   - Sales and the user Arlene Huff


15. In the details pane, right-click LON-CL1, and then click Move.

16. In the Move dialog box, click Branch Office 1, and then click OK.

17. Switch to LON-CL1.

18. Point the mouse at the lower-right corner of the screen, and then click Settings.

19. Click Power, and then click Restart.

20. When the computer has restarted, sign in as Adatum\Administrator with the password Pa$$w0rd.

21. Switch to LON-DC1.

22. If necessary, switch to Active Directory Users and Computers.

23. In the navigation pane, right-click Branch Office 1, click Delegate Control, and then click Next.

24. On the Users or Groups page, click Add.

25. In the Select Users, Computers, or Groups dialog box, in Enter the object names to select (examples), type Branch 1 Administrators, and then click OK.

26. On the Users or Groups page, click Next.

27. On the Tasks to Delegate page, in the Delegate the following common tasks list, select the following check boxes, and then click Next:
Create, delete, and manage user accounts
Reset user passwords and force password change at next logon
Read all user information
Create, delete and manage groups
Modify the membership of a group
Manage Group Policy links


29. In the navigation pane, right-click Branch Office 1, click Delegate Control, and then click Next.

30. On the Users or Groups page, click Add.

31. In the Select Users, Computers, or Groups dialog box, in Enter the object names to select (examples), type Branch 1 Administrators, and then click OK.

32. On the Users or Groups page, click Next.

33. On the Tasks to Delegate page, click Create a custom task to delegate, and then click Next.

34. On the Active Directory Object Type page, select Only the following objects in the folder, select the following check boxes, and then click Next:
   - Computer objects
   - Create selected objects in this folder
   - Delete selected objects in this folder

35. On the Permissions page, select both General and Full Control, and then click Next.


Task 2: Delegate a user administrator for the Branch Office Help Desk
1. On LON-DC1, in the navigation pane, right-click **Branch Office 1**, click **Delegate Control**, and then click **Next**.

2. On the **Users or Groups** page, click **Add**.

3. In the **Select Users, Computers, or Groups** dialog box, in **Enter the object names to select (examples)**, type **Branch 1 Help Desk**, and then click **OK**.

4. On the **Users or Groups** page, click **Next**.

5. On the **Tasks to Delegate** page, in the **Delegate the following common tasks** list, select the following check boxes, and then click **Next**:
   - Reset user passwords and force password change at next logon
   - Read all user information
   - Modify the membership of a group

6. On the **Completing the Delegation of Control Wizard** page, click **Finish**.

**Task 3: Add a member to the Branch Administrators**

1. On LON-DC1, in the navigation pane, click **Branch Office 1**.

2. In the details pane, right-click **Holly Dickson**, and then click **Add to a group**.

3. In the **Select Groups** dialog box, in **Enter the object names to select (examples)**, type **Branch 1 Administrators**, and then click **OK**.

4. In the **Active Directory Domain Services** dialog box, click **OK**.

5. In the details pane, right-click **Branch 1 Administrators**, and then click **Add to a group**.

6. In the **Select Groups** dialog box, in **Enter the object names to select (examples)**, type **Server Operators**, and then click **OK**.

7. In the **Active Directory Domain Services** dialog box, click **OK**.

8. On your host computer, in the 20410C-LON-DC1 window, on the **Action** menu,
click **Ctrl+Alt+Delete**.

9. On LON-DC1, click **Sign out**.

10. Sign in to LON-DC1 as **Adatum\Holly** with the password **Pa$$w0rd**.
    You can sign in locally at a domain controller because Holly belongs indirectly to the Server Operators domain local group.

11. On the taskbar, click the **Server Manager** icon.

12. In the **User Account Control** dialog box, in **User name**, type **Holly**. In **Password**, type **Pa$$w0rd**, and then click **Yes**.

13. In Server Manager, click **Tools**, and then click **Active Directory Users and Computers**.


15. In the navigation pane, click **Sales**.

16. In the details pane, right-click **Aaren Ekelund**, and then click **Delete**.

17. Click **Yes** to confirm.

18. Click **OK** to acknowledge that you do not have permissions to perform this task.

19. In the navigation pane, click **Branch Office 1**.

20. In the details pane, right-click **Ed Meadows**, and then click **Delete**.

21. Click **Yes** to confirm.

    You are successful because you have the required permissions.

**Task 4: Add a member to the Branch Help Desk group**

1. On LON-DC1, in the details pane, right-click **Bart Duncan**, and then click **Add to a group**.

2. In the **Select Groups** dialog box, in **Enter the object names to select**
3. In the **Active Directory Domain Services** dialog box, click **OK**.


5. Close Server Manager.

6. On the desktop, click **Server Manager**. In the **User Account Control** dialog box, in **User name**, type **Adatum\Administrator**.

7. In **Password**, type **Pa$$w0rd**, and then click **Yes**.

   💡 **Note:** To modify the Server Operators membership list, you must have permissions beyond those available to the Branch 1 Administrators group.

8. In Server Manager, click **Tools**.

9. In the Tools list, click **Active Directory Users and Computers**.

10. In Active Directory Users and Computers, expand **Adatum.com**.

11. In the navigation pane, click **Branch Office 1**.

12. In the details pane, right-click **Branch 1 Help Desk**, and then click **Add to a group**.

13. In the **Select Groups** dialog box, in **Enter the object names to select (examples)**, type **Server Operators**, and then click **OK**.

14. In the **Active Directory Domain Services** dialog box, click **OK**.

15. On your host computer, in the 20410C-LON-DC1 window, on the **Action** menu, click **Ctrl+Alt+Delete**.

16. On LON-DC1, click **Sign out**.

17. Sign in as **Adatum\Bart** with the password **Pa$$w0rd**.

   You can sign in locally at a domain controller because Bart belongs indirectly to
the Server Operators domain local group.

18. On the desktop, click **Server Manager**.

19. In the User Account Control dialog box, in **User name**, type **Bart**. In **Password**, type **Pa$$w0rd**, and then click **Yes**.

20. In Server Manager, click **Tools**.

21. Click **Active Directory Users and Computers**.

22. In Active Directory Users and Computers, expand **Adatum.com**.

23. In the navigation pane, click **Branch Office 1**.

24. In the details pane, right-click **Connie Vrettos**, and then click **Delete**.

25. Click **Yes** to confirm.

   You are unsuccessful because Bart lacks the required permissions.

26. Click **OK**.

27. Right-click **Connie Vrettos**, and then click **Reset Password**.

28. In the Reset Password dialog box, in **New password** and **Confirm password**, type **Pa$$w0rd**, and then click **OK**.

29. Click **OK** to confirm the successful password reset.

30. On your host computer, in the 20410C-LON-DC1 window, on the Action menu, click **Ctrl+Alt+Delete**.

31. On LON-DC1, click **Sign out**.

32. Sign in to LON-DC1 as **Adatum\Administrator** with the password **Pa$$w0rd**.

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**Results:** After completing this exercise, you will have successfully created an OU, and delegated administration of it to the appropriate group.

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**Exercise 2: Creating and Configuring User Accounts in AD DS**
Task 1: Create a user template for the branch office

1. On LON-DC1, on the taskbar, click the File Explorer icon.
2. Double-click Local Disk (C:).
3. On the menu, click Home, and then click New folder.
4. Type branch1-userdata, and then press Enter.
5. Right-click branch1-userdata, and then click Properties.
6. In the branch1-userdata Properties dialog box, on the Sharing tab, click Advanced Sharing.
7. Select Share this folder, and then click Permissions.
8. In the Permissions for branch1-userdata dialog box, for the Full Control permission select the Allow check box, and then click OK.
9. In the Advanced Sharing dialog box, click OK, and then in the branch1-userdata Properties dialog box, click Close.
10. In Server Manager, click Tools, and then click Active Directory Users and Computers, and then expand Adatum.com.
11. Right-click Branch Office1, point to New, and then click User.
12. In the New Object – User dialog box, in Full name, type _Branch_template.
13. In User logon name, type _Branch_template, and then click Next.
15. Select the Account is disabled check box, and then click Next.
16. Click Finish.

Task 2: Configure the template settings
1. On LON-DC1, from within the **Branch Office 1** OU, right-click **_Branch_template**, and then click **Properties**.

2. In the **_Branch_template Properties** dialog box, on the **Address** tab, in **City**, type **Slough**.

3. Click the **Member Of** tab, and then click **Add**.

4. In the **Select Groups** dialog box, in **Enter the object names to select (examples)**, type **Branch 1 Users**, and then click **OK**.

5. Click the **Profile** tab.

6. Under Home folder, click **Connect**, and in the **To** box, type `\\lon-dc1\branch1-userdata\%username%`.

7. Click **Apply**, and then click **OK**.

**Task 3: Create a new user for the branch office, based on the template**

1. On LON-DC1, right-click **_Branch_template**, and then click **Copy**.

2. In the **Copy Object – User** dialog box, in **First name**, type **Ed**.

3. In **Last name**, type **Meadows**.

4. In **User logon name**, type **Ed**, and then click **Next**.

5. In **Password** and **Confirm password**, type **Pa$$w0rd**.

6. Clear the **User must change password at next logon** check box.

7. Clear the **Account is disabled** check box, and then click **Next**.

8. Click **Finish**.

9. Right-click **Ed Meadows**, and then click **Properties**.

10. In the **Ed Meadows Properties** dialog box, on the **Address** tab, notice that the City is already configured.
11. Click the **Profile** tab.

   Notice that the home folder location is already configured.

12. Click the **Member Of** tab.

   Notice that Ed belongs to the Branch 1 Users group. Click **OK**.

13. On your host computer, in the 20410C-LON-DC1 window, on the **Action** menu, click **Ctrl+Alt+Delete**.

14. On LON-DC1, click **Sign out**.

**Task 4: Sign in as a user to test account settings**

1. Switch to LON-CL1.

2. On your host computer, in the 20410C-LON-CL1 window, on the menu, click **Ctrl+Alt+Delete**.

3. On LON-CL1, click **Switch User**.

4. Sign in to LON-CL1 as **Adatum\Ed** with the password **Pa$$w0rd**.

5. On the Start screen, type **File Explorer** and then press **Enter**.

6. Verify that drive Z is present.

7. Double-click **Ed (\lon-dc1\branch1-userdata) (Z:)**.

8. If you receive no errors, you have been successful.

9. On your host computer, in the 20410C-LON-CL1 window, on the **Action** menu, click **Ctrl+Alt+Delete**.

10. On LON-CL1, click **Sign out**.

**Results:** After completing this exercise, you will have successfully created and tested a user account created from a template.
Exercise 3: Managing Computer Objects in AD DS

Task 1: Reset a computer account

1. On LON-DC1, sign in as Adatum\Holly with the password Pa$$w0rd.
2. On the taskbar, click the Server Manager icon.
3. In the User Account Control dialog box, in User name, type Holly.
4. In Password, type Pa$$w0rd, and then click Yes.
5. In Server Manager, click Tools, and then click Active Directory Users and Computers.
7. In the navigation pane, click Branch Office 1.
8. In the details pane, right-click LON-CL1, and then click Reset Account.
9. In the Active Directory Domain Services dialog box, click Yes, and then click OK.

Task 2: Observe the behavior when a client logs on

1. Switch to LON-CL1.
2. Sign in as Adatum\Ed with the password Pa$$w0rd.
   A message appears stating that The trust relationship between this workstation and the primary domain failed.
3. Click OK.

Task 3: Rejoin the domain to reconnect the computer account
1. On LON-CL1 click the back arrow and switch to **Adatum\Administrator** with the password **Pa$$w0rd**.

2. On the Start screen, right-click the display, click **All apps**, and in the Apps list, click **Control Panel**.

3. In Control Panel, in the **View by** list, click **Large icons**, and then click **System**.

4. In the navigation list, click **Advanced system settings**.

5. In System Properties, click the **Computer Name** tab, and then click **Network ID**.

6. On the **Select the option that describes your network** page, click **Next**.

7. On the **Is your company network on a domain?** page, click **Next**.

8. On the **You will need the following information** page, click **Next**.

9. On the **Type your user name, password, and domain name for your domain account** page, in **Password**, type **Pa$$w0rd**. Leave the other boxes completed, and then click **Next**.

10. In the **User Account and Domain Information** dialog box, click **Yes**.

11. On the **Do you want to enable a domain user account on this computer?** page, click **Do not add a domain user account**, and then click **Next**.

12. Click **Finish**, and then click **OK**.

13. In the **Microsoft Windows** dialog box, click **Restart Now**.

14. Sign in as **Adatum\Ed** with the password **Pa$$w0rd**.

   You are successful because the computer had been successfully rejoined.

**Results:** After completing this exercise, you will have successfully reset a trust relationship.
Prepare for the next module

When you have completed the lab, revert the virtual machines back to their initial state.

To do this, complete the following steps:

1. On the host computer, start Hyper-V® Manager.
2. In the **Virtual Machines** list, right-click **20410C-LON-CL1**, and then click **Revert**.
3. In the **Revert Virtual Machine** dialog box, click **Revert**.
4. Repeat steps 2 and 3 for 20410C-LON-DC1.