

ACTIVE DIRECTORY

Active Directory:

Active Directory (AD) is the directory service from Microsoft for Windows domain networks. It provides a centralized and standardized system to manage network resources such as computers, users, devices, files, and applications. It is used quite extensively in enterprise environments as a means of controlling and enforcing access on different kinds of resources, allowing organizations to manage user permissions and settings across the network.

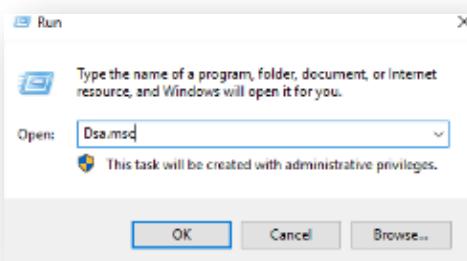
Here is a holistic overview of how one can create, delete, and change the user accounts in Active Directory (AD) using the Active Directory Users and Computers tool, PowerShell, and Command Line:

❖ User Account Creation in Active Directory

Using Active Directory Users and Computers (ADUC)

1. To open ADUC:

- Win + R and then enter Dsa. MSc and hit Enter. Or follow this path in Server Manager: Tools > Active Directory Users and Computers

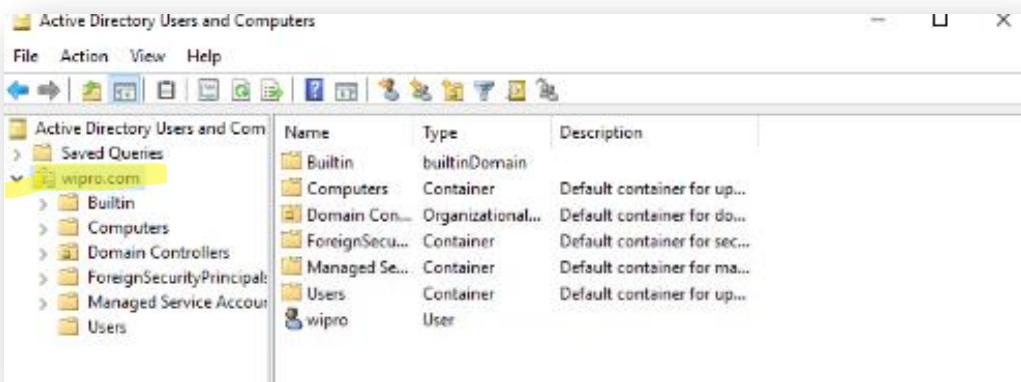


2. Navigate to the desired Organizational Unit:

A screenshot of the "Active Directory Users and Computers" management console. The title bar says "Active Directory Users and Computers". The left pane shows a navigation tree with "Active Directory Users and Computers", "Saved Queries", and "wipro.com". The right pane displays a table of objects in the "wipro" container. The table has columns: Name, Type, and Description. The data is as follows:

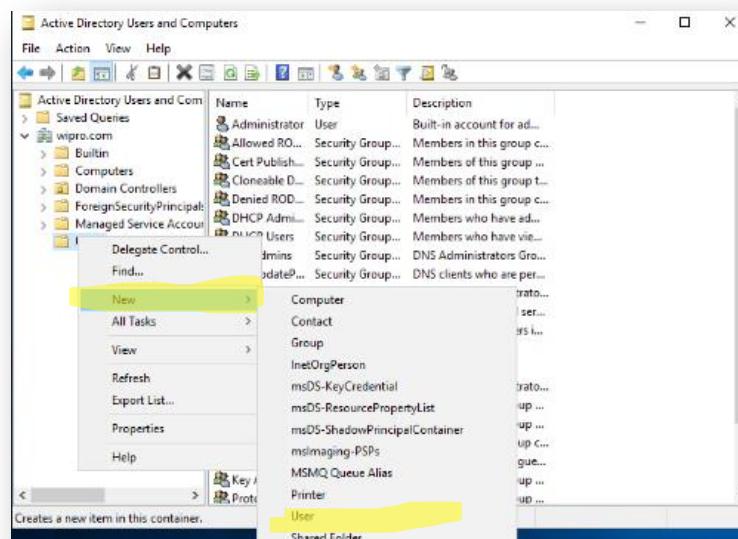
Name	Type	Description
Builtin	builtinDomain	Default container for up...
Computers	Container	Default container for do...
Domain Con...	Organizational...	Default container for do...
ForeignSecu...	Container	Default container for sec...
Managed Se...	Container	Default container for ma...
Users	Container	Default container for up...
wipro	User	

- Open ADUC on the console and move to the OU where you wish to create the new user.



3. Add New User

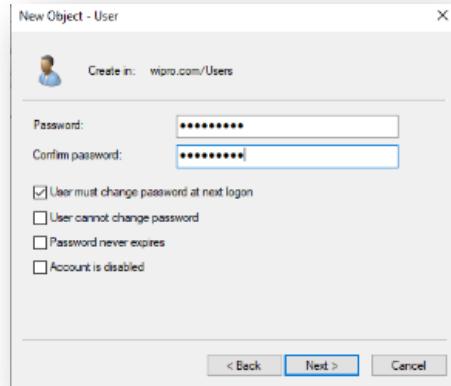
Right-click the desired OU; create New click on User



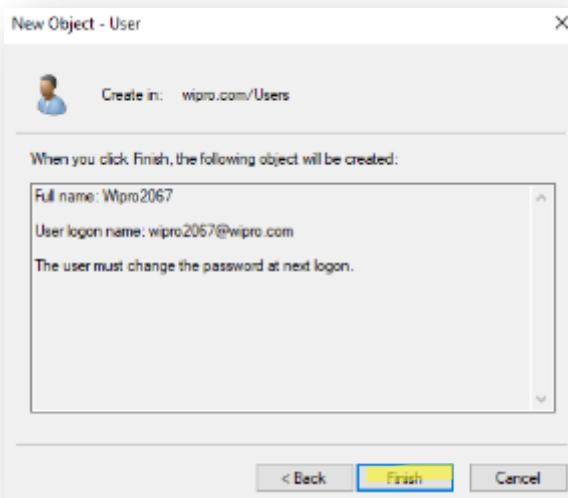
4. User Details

- Enter the first name, last name, and user logon name.

- Click Next and give Password Enter a password and confirm it.



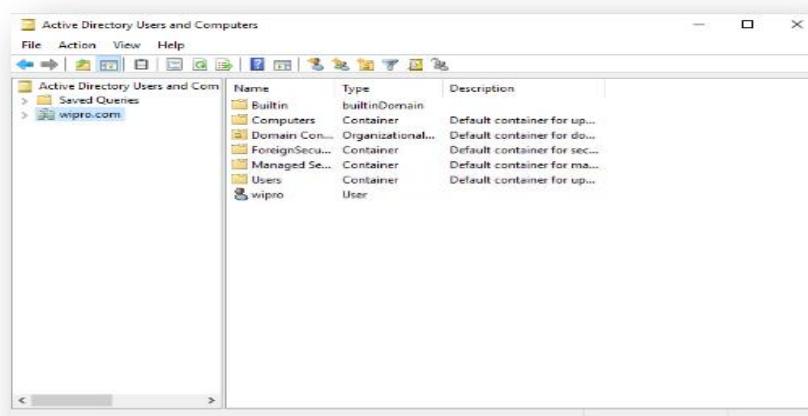
- Choose appropriate options such as "User must change password at next logon" or "Password never expires." Click Next, then Finish.



❖ Deleting a User Account in Active Directory

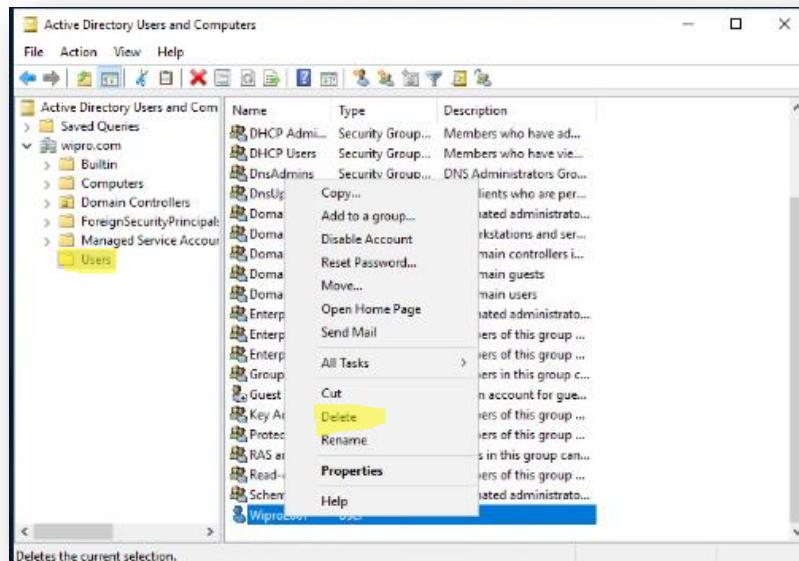
Using Active Directory Users and Computers (ADUC)

- Open ADUC and navigate to the desired OU.



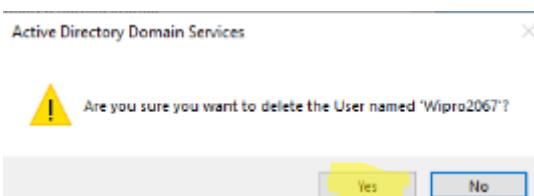
- **Locate the User:**

Right-click on the user account you want to delete.



- **Delete the User:**

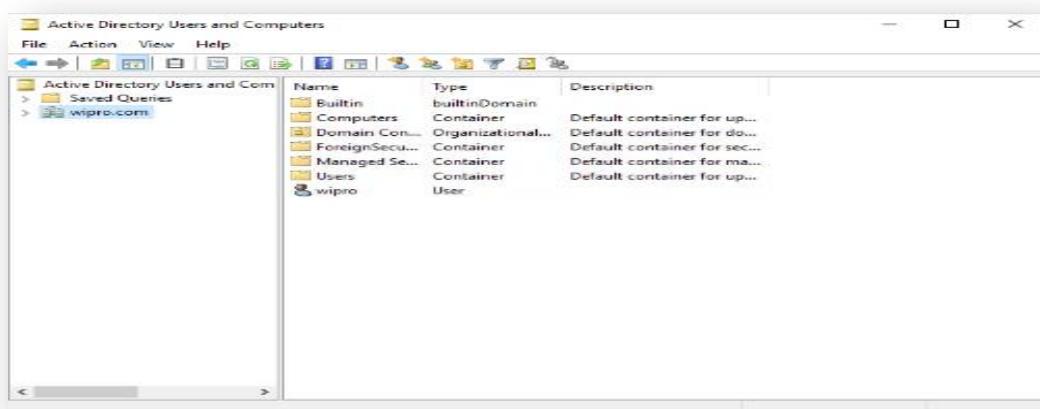
Click Delete and confirm the deletion.



Modifying a User Account in Active Directory

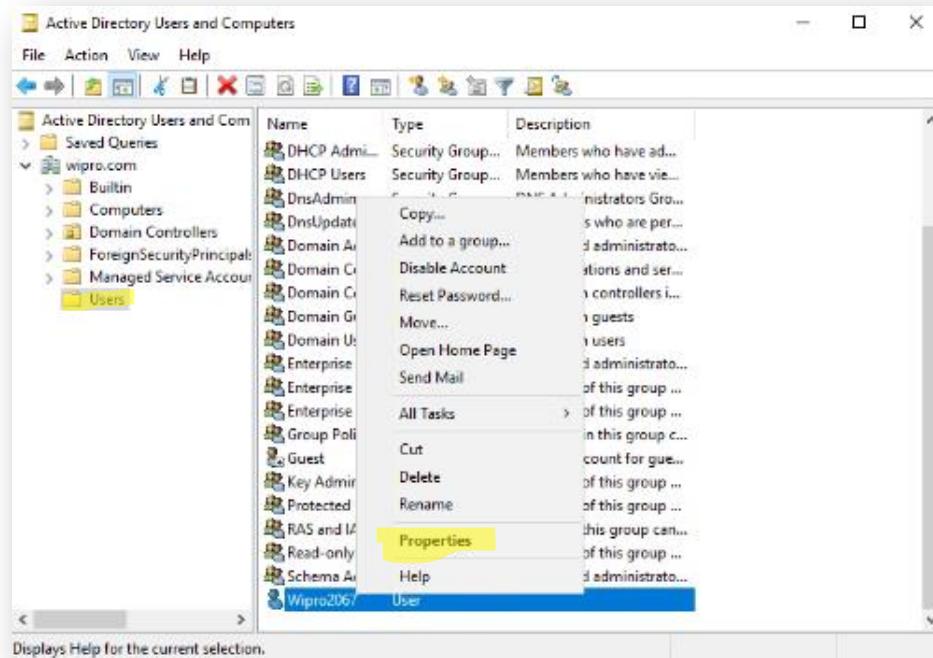
Using Active Directory Users and Computers (ADUC)

1. Open ADUC and navigate to the user's OU.



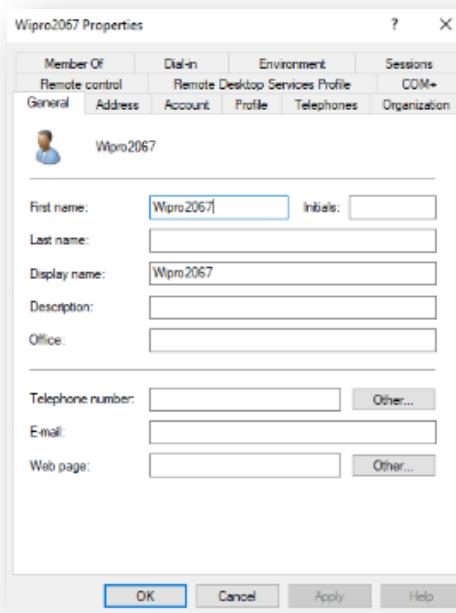
2. Locate the User:

Right-click the user account and select Properties.



3. Modify User Properties:

Change attributes like name, email, group membership, etc.



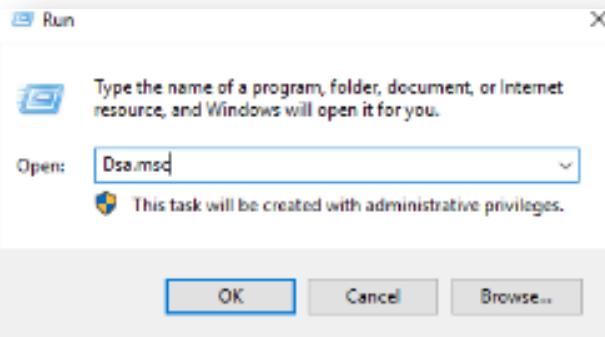
Click Apply and then OK.

Group Creation in Active Directory

Using Active Directory Users and Computers (ADUC)

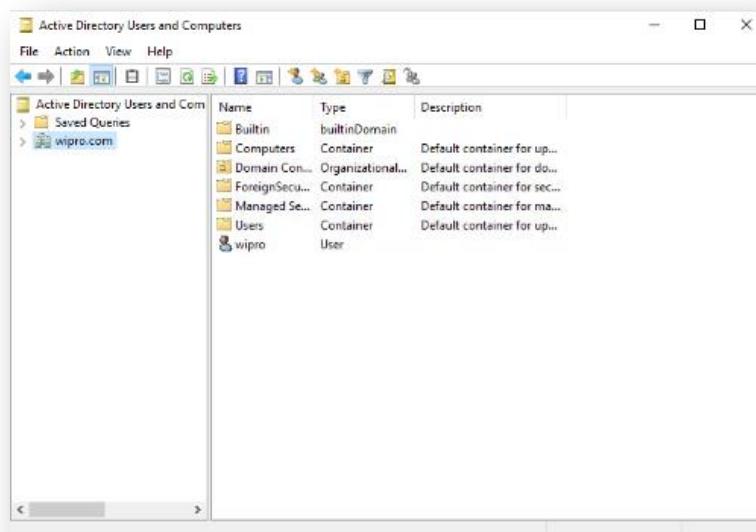
- Open ADUC:

Press Win + R, type dsa.msc, and press Enter. Or, go to Server Manager → Tools → Active Directory Users and Computers.



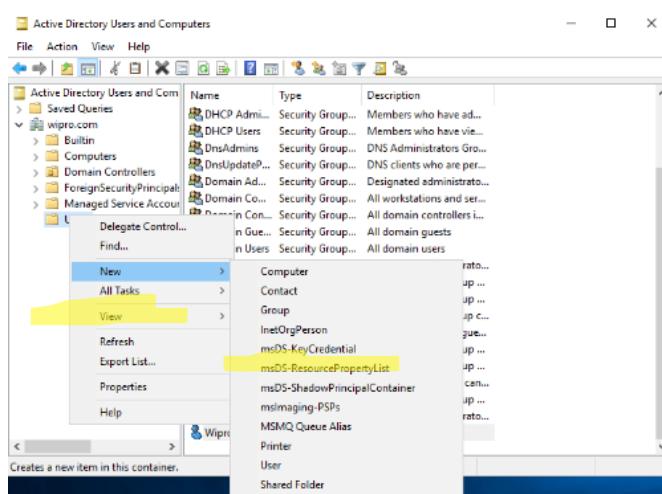
- **Navigate to the Desired OU:**

In the ADUC console, go to the Organizational Unit (OU) where you want to create the group.



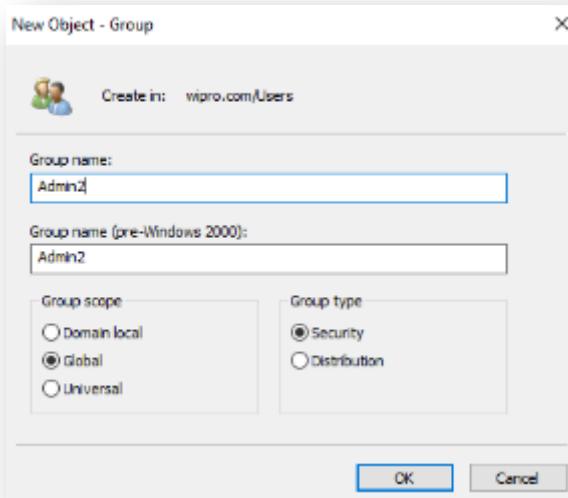
Create a New Group:

Right-click the desired OU → New → Group.



Enter Group Details:

- Enter the Group name.
- Choose the Group scope: Domain Local, Global, or Universal.
- Choose the Group type: Security or Distribution.
- Click OK to create the group.



Delete a Group in Active Directory

Using Active Directory Users and Computers (ADUC)

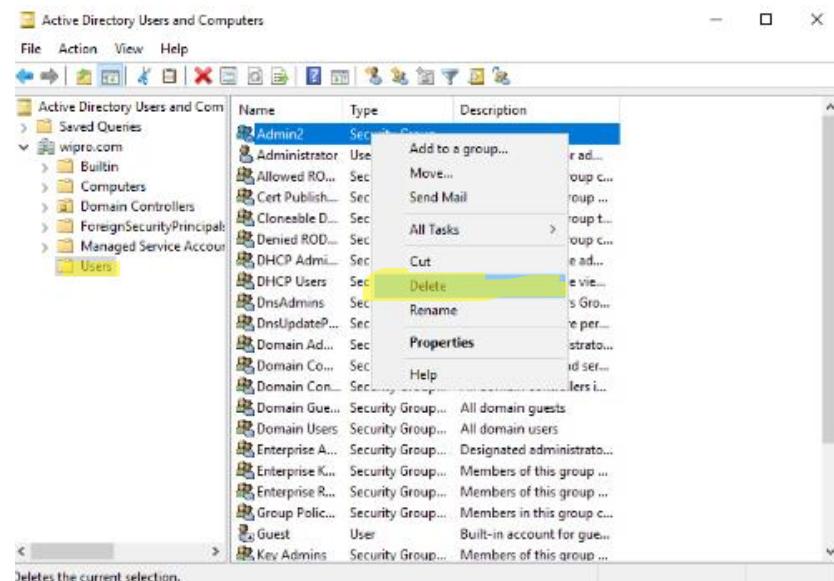
Open ADUC and then navigate to the desired OU.

The screenshot shows the 'Active Directory Users and Computers' window. The left pane shows a tree view with 'Active Directory Users and Computers', 'Saved Queries', and 'wipro.com' selected. The right pane displays a table of objects in the 'wipro' container. The table has columns for Name, Type, and Description. The data is as follows:

Name	Type	Description
Builtin	builtInDomainContainer	Default container for up...
Computers	Container	Default container for do...
Domain Con...	Organizational...	Default container for sec...
ForeignSecu...	Container	Default container for ma...
Managed Se...	Container	Default container for up...
Users	Container	Default container for up...
wipro	User	

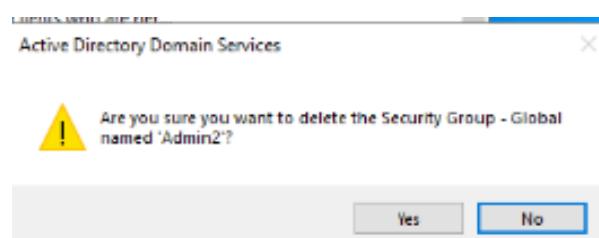
Locate the Group:

Right-click the group you intend to delete.



Delete the Group:

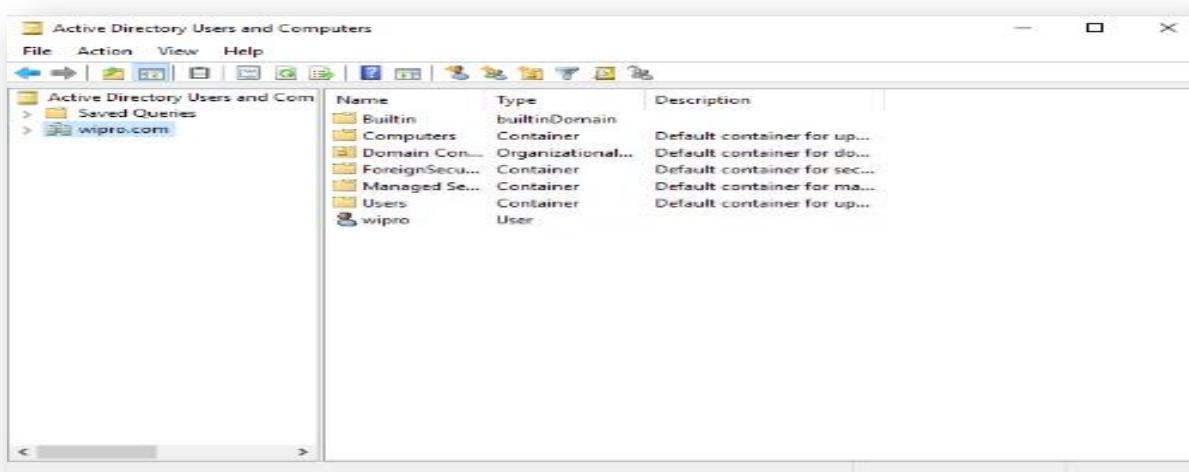
Click Delete and confirm the deletion.



Modifying a Group in Active Directory

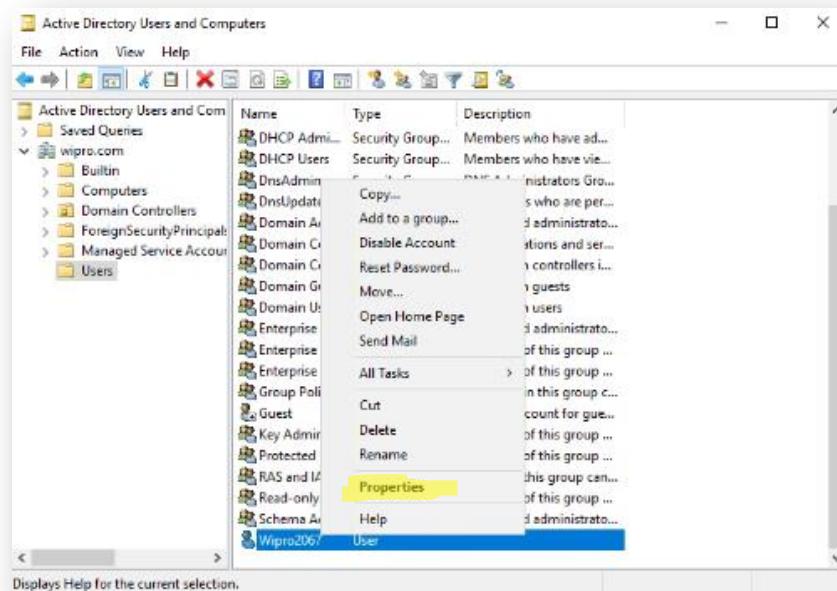
Using Active Directory Users and Computers (ADUC)

Open ADUC and go to the OU that contains the group.



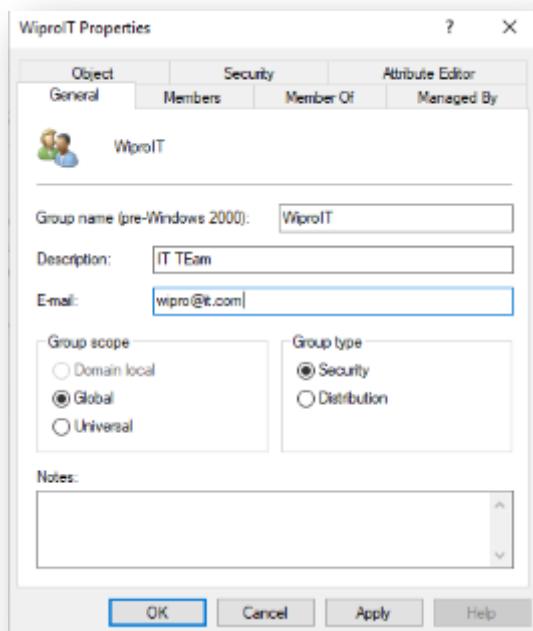
Locate the Group:

Right-click the group and select Properties.



Modify Group Properties:

You can change attributes like the Group Name, Group Scope, Group Type, or Membership.

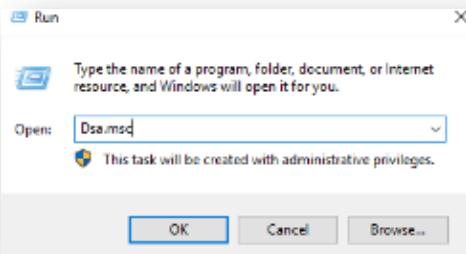


Click Apply and then OK.

Resetting a Password for a User Account Using Active Directory Users and Computers (ADUC)

Open Active Directory Users and Computers:

Press Win + R, type dsa.msc, and press Enter or Alternatively, go to **Server Manager** → **Tools** → **Active Directory Users and Computers**.



Locate the User Account:

In the ADUC console, navigate to the Organizational Unit (OU) or container where the user is located.

A screenshot of the Active Directory Users and Computers (ADUC) console. The left navigation pane shows the tree structure: Active Directory Users and Computers, Saved Queries, wipro.com (expanded), Builtin, Computers, Domain Controllers, ForeignSecurityPrincipal, Managed Service Account, and Users. The right pane displays a table of objects in the 'wipro.com' container. The table has columns: Name, Type, and Description. The data is as follows:

Name	Type	Description
Builtin	builtinDomain	
Computers	Container	Default container for up...
Domain Con...	Organizational...	Default container for do...
ForeignSecu...	Container	Default container for sec...
Managed Se...	Container	Default container for ma...
Users	Container	Default container for up...
wipro	User	

Right-click on the **user account** for which you want to reset the password.

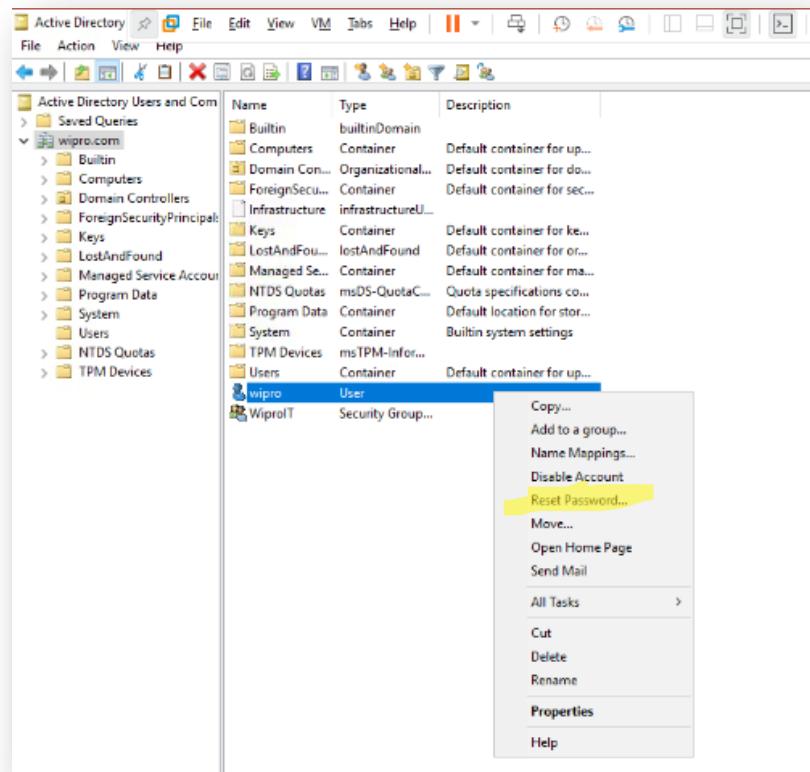
A screenshot of the Active Directory Users and Computers (ADUC) console. The left navigation pane shows the tree structure: Active Directory Users and Computers, Saved Queries, wipro.com (expanded), Builtin, Computers, Domain Controllers, ForeignSecurityPrincipal, Managed Service Account, and Users. The right pane displays a table of objects in the 'wipro.com' container. The table has columns: Name, Type, and Description. The data is as follows:

Name	Type	Description
Builtin	builtinDomain	
Computers	Container	Default container for up...
Domain Con...	Organizational...	Default container for do...
ForeignSecu...	Container	Default container for sec...
Managed Se...	Container	Default container for ma...
Users	Container	Default container for up...
wipro	User	

The 'wipro' user account is highlighted with a yellow selection bar.

Select "Reset Password":

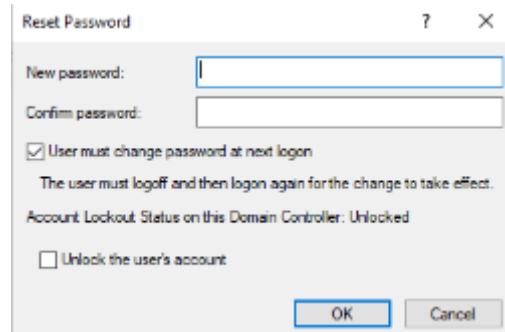
From the context menu, select Reset Password.



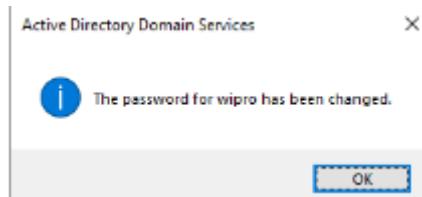
Enter the New Password:

In the **Reset Password** dialog box, enter the new password for the user.

Confirm the new password by typing it again.

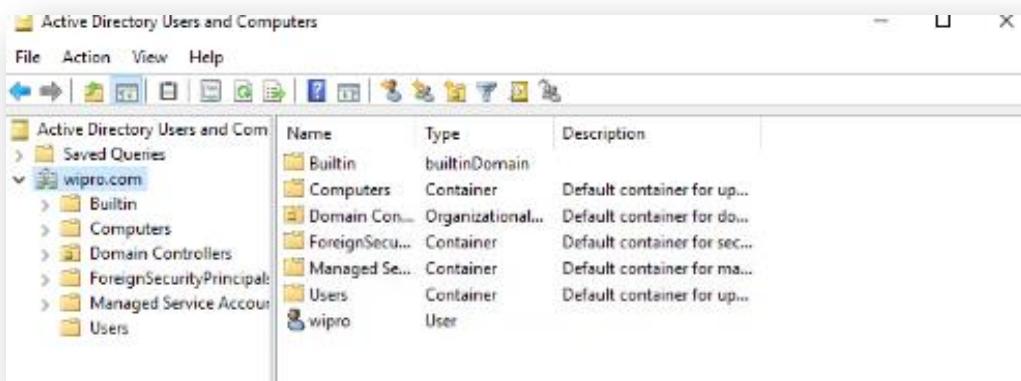


- Click "OK" to finalize the password reset.

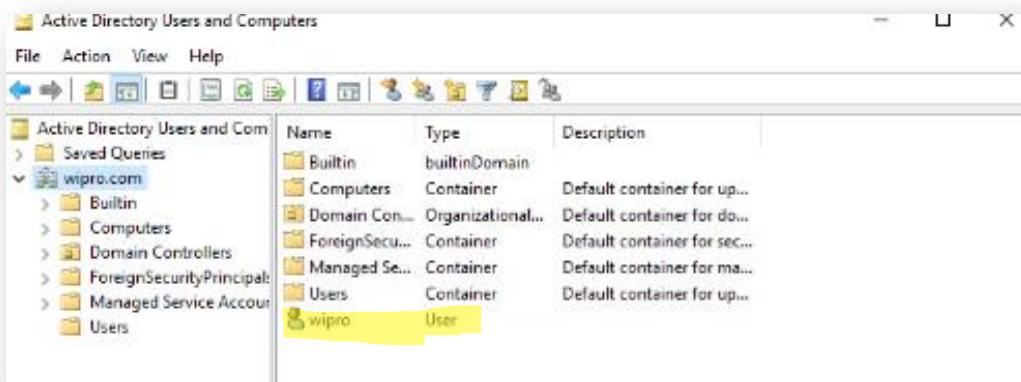


Enabling or Disabling User or Computer Accounts

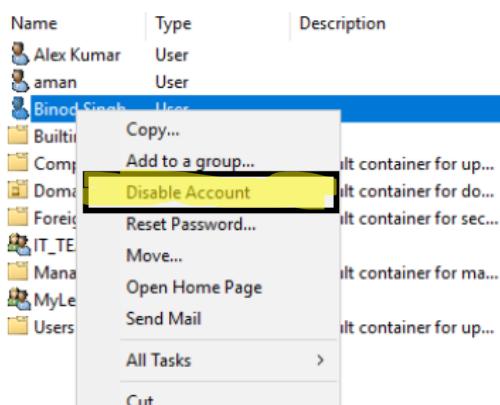
Open Active Directory Users and Computers (ADUC).



Locate the user or computer account you want to enable or disable.

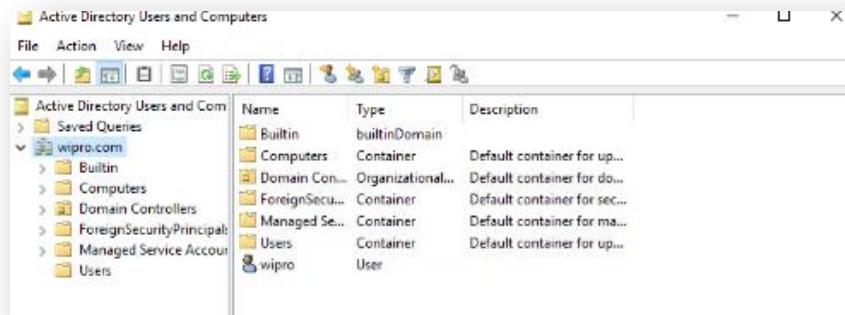


Right-click on the account and select either **Enable Account** or **Disable Account** based on the action required.

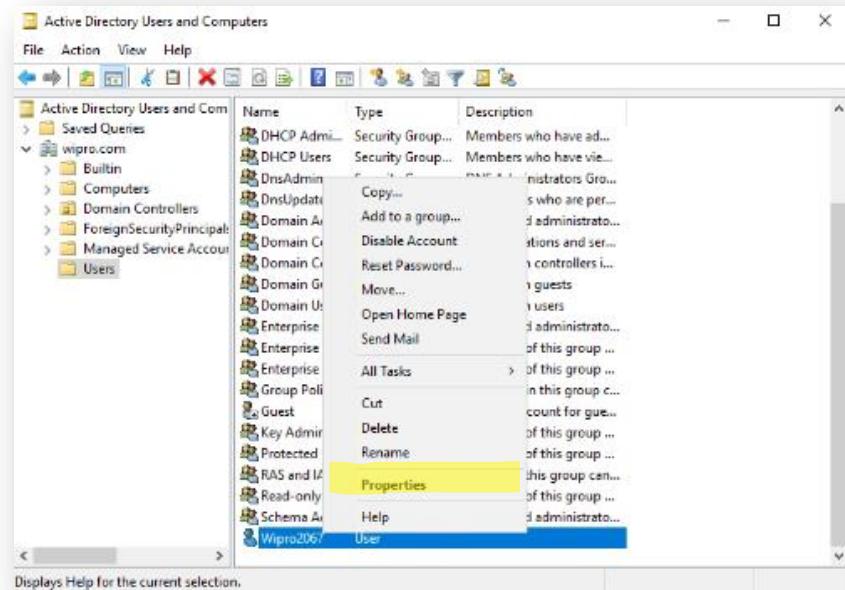


Request to Grant or Revoke User or Group Access to Certain Active Directory Objects

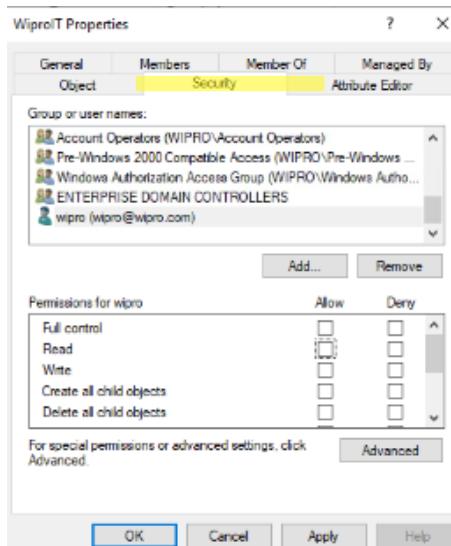
Open Active Directory Users and Computers (ADUC).



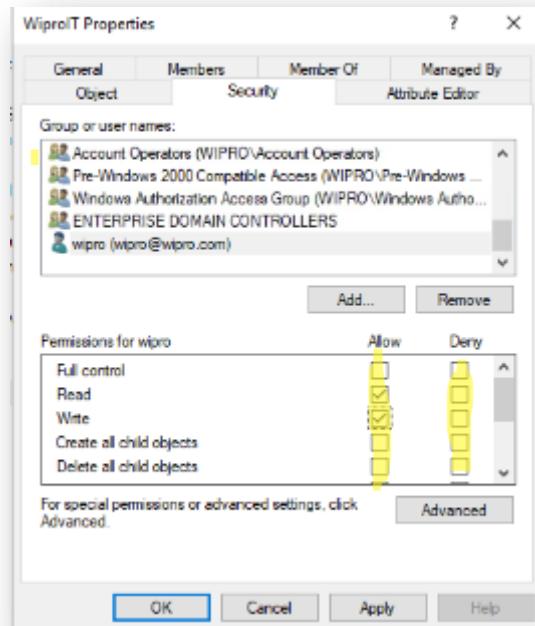
Right-click the object (e.g., OU, group) and select **Properties**.



Go to the **Security** tab.



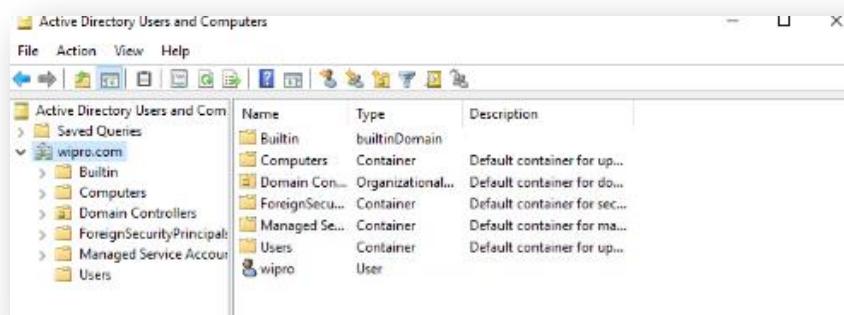
Click on **Edit** to modify permissions for specific users or groups and Grant or revoke the necessary permissions (e.g., read, write, delete).



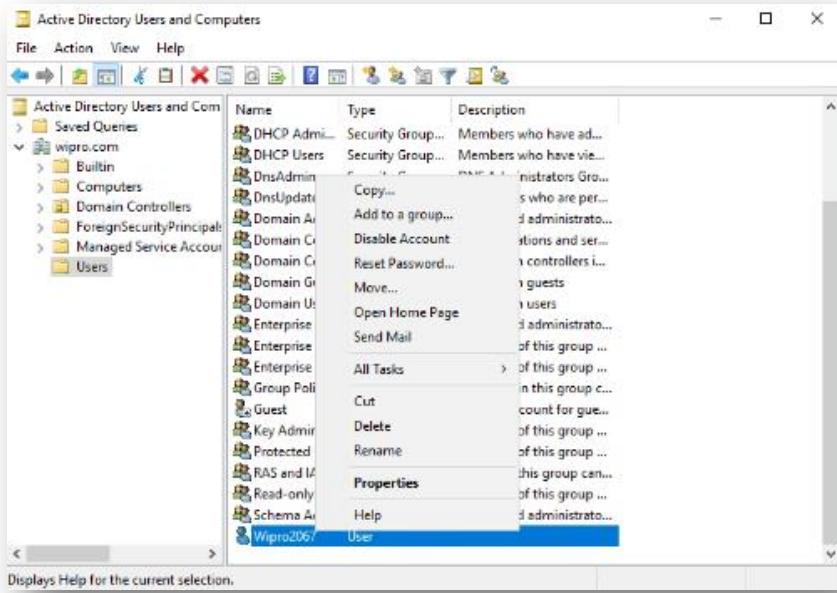
Click **OK** to apply the changes.

Unlocking User Accounts

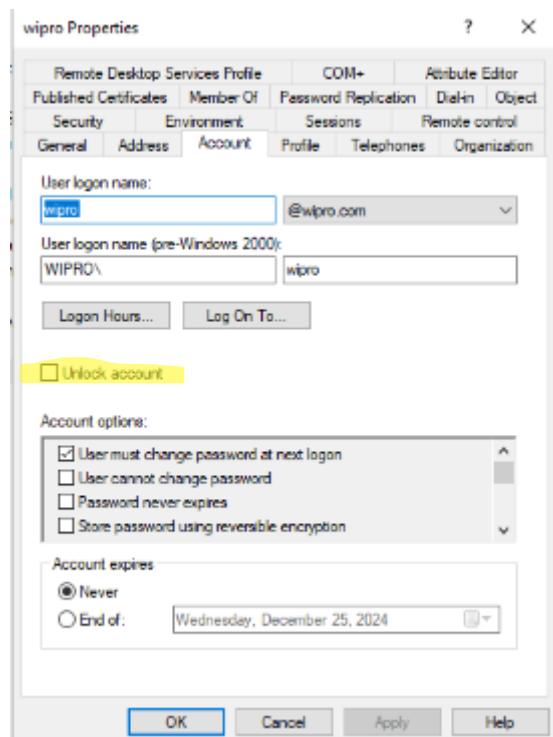
Open **Active Directory Users and Computers (ADUC)**.



Locate the locked-out user account.



Right-click on the account and select **Unlock Account**.



Confirm the unlocking action.