

Course-End Project

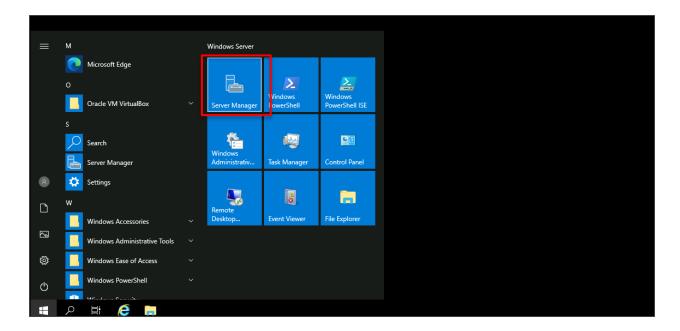
Infrastructure Security: Integrating Active Directory for Enhanced User Management and Compliance

Steps to be followed:

- 1. Setup active directory
- 2. Integrate client configuration
- 3. Create organizational units (OUs) and groups within OUs
- 4. Create a user management
- 5. Implement password policies
- 6. Integrate compliance and reporting

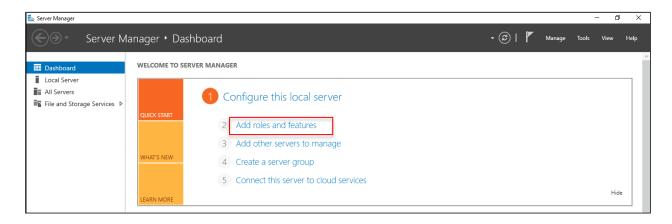
Step 1: Setup active directory

1.1 Click on Windows Key and write Server Manager. Click on Server Manager

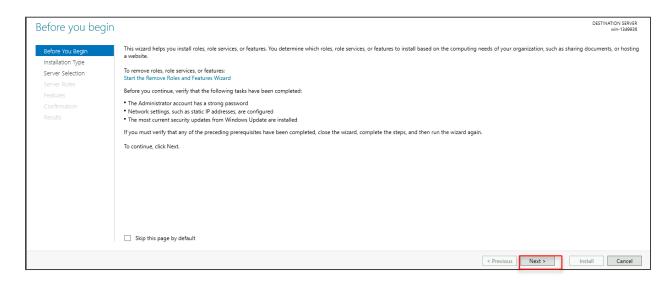




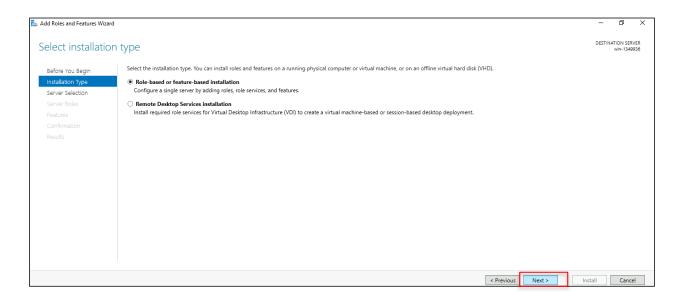
1.2 Click on Add roles and features



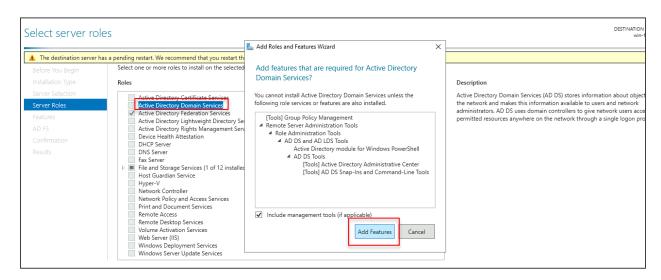
1.3 Click on Next >





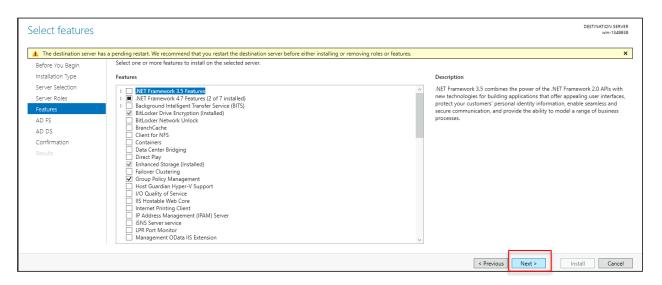


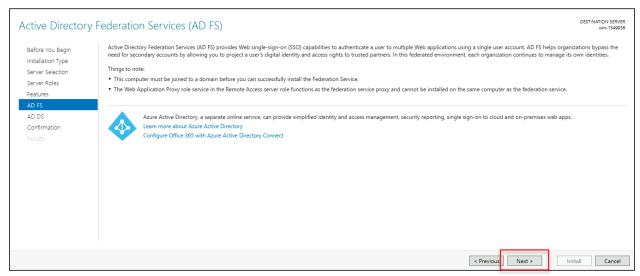
1.4 Select Active Directory Domain Services then click on Add features





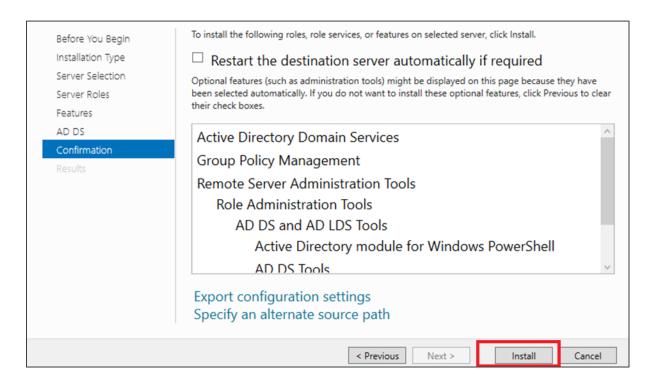
1.5 Click on Next >



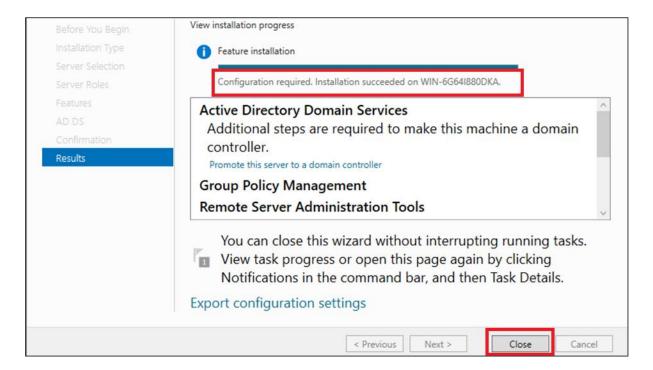




1.6 Click on Install

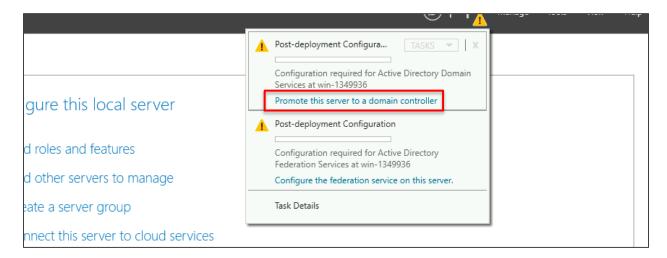


1.7 Once it is installed successfully click on Close

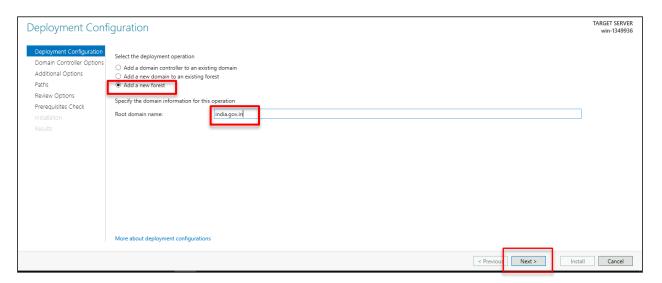




1.8 Click on the notification flag on the right side of the server manager dashboard and click on **promote this server to a domain controller**



1.9 Select Add a new forest. Add the Root domain name and click Next





1.10 Enter the Directory Services Restore Mode password and click Next



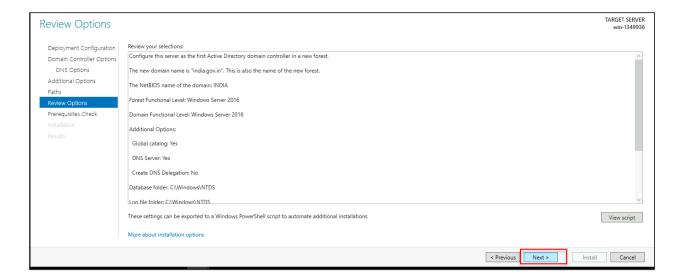
1.11 Click Next >



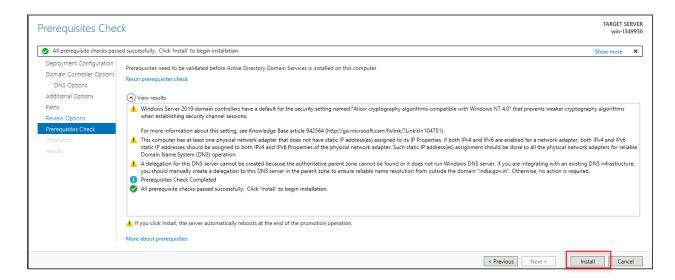




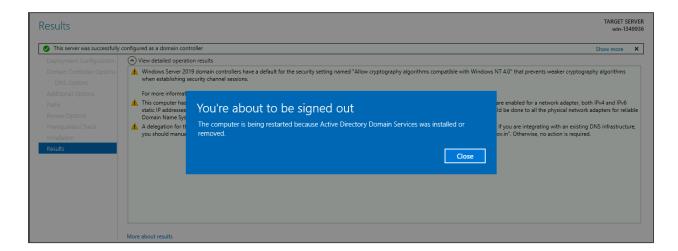
1.12 Click on Next > then click on Install







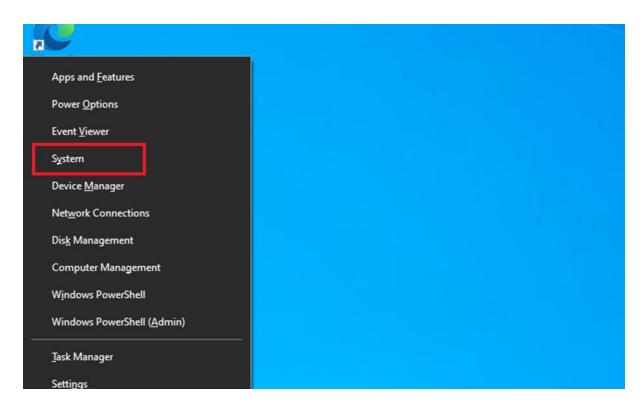
1.13 Click on Close



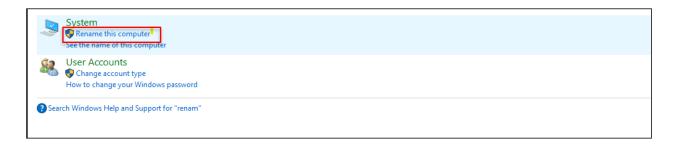


Step 2: Integrate client configuration

2.1 Start a Windows 10 OS and press windows+x and select the System

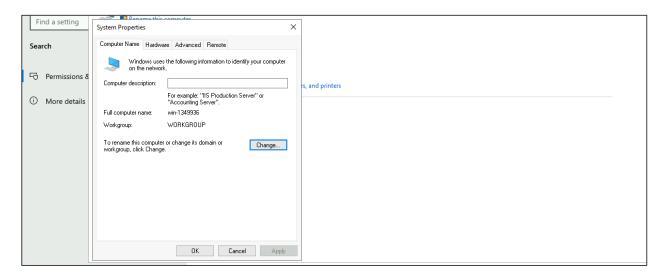


2.2 Click on Rename this computer

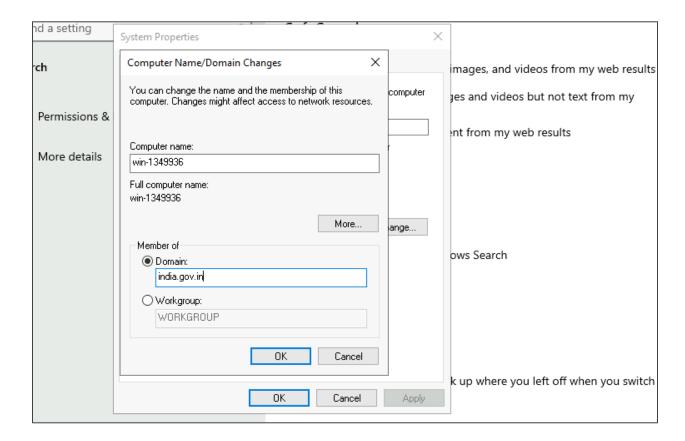




2.3 Click on Change

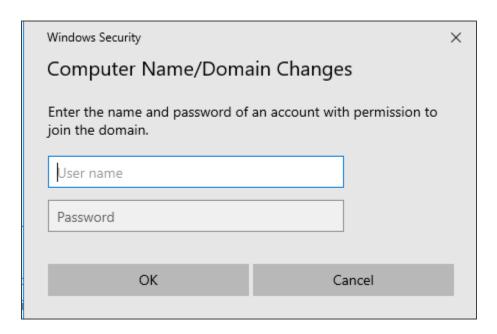


2.4 Click on **Domain** and enter the domain name you want this PC to join and click on **OK**





2.5 Login with an administrator account on Windows Server 2022



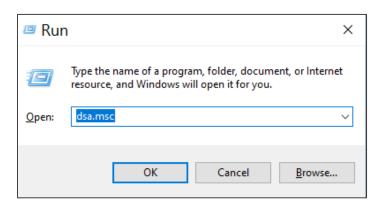
2.6 Upon successful login, the current system will join the domain, click on **OK**



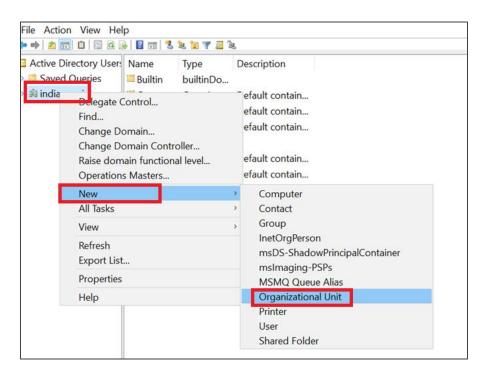


Step 3: Create organizational units (OUs) and groups within OUs

3.1 Press windows + r and type dsa.msc

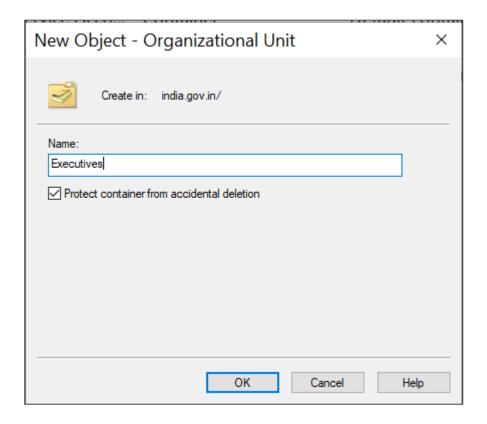


3.2 Right click on the domain india.gov.in and click on New and Organizational Unit

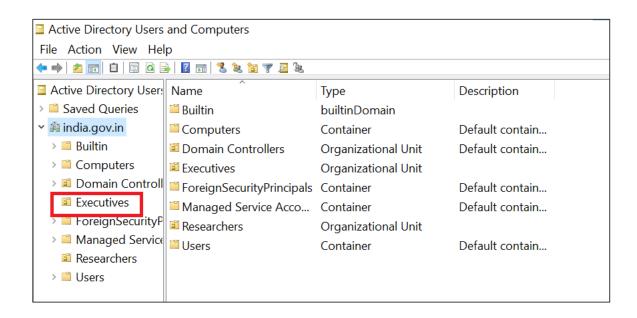




3.3 Write the Name of the OU to be created, then click on OK

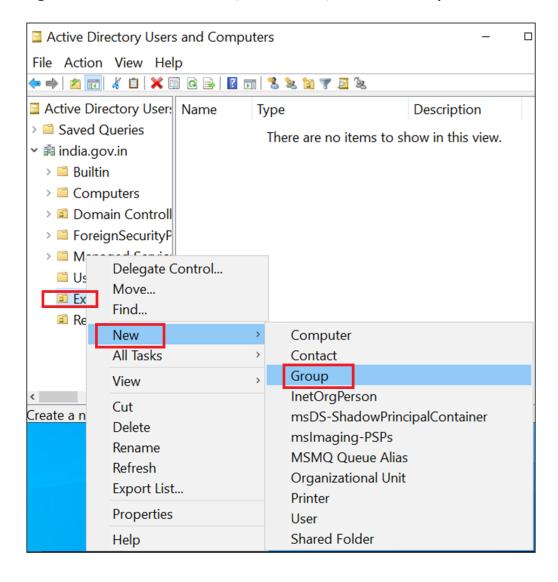


Executives OU is visible in the left tree pane:



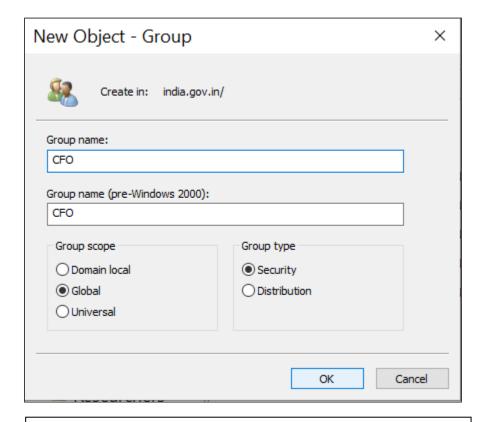


3.4 Right Click on the Executives OU, click on New, and select Group





3.5 Write the Group name as CFO and click on OK

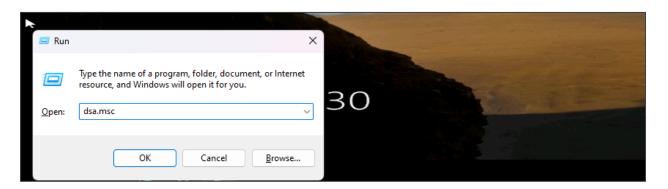


Note: Similarly create other groups.

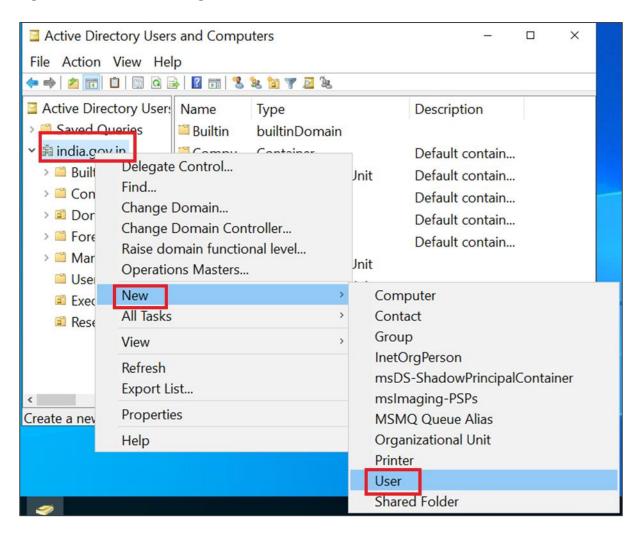


Step 4: Create a user management

4.1 Press windows+r and type dsa.msc

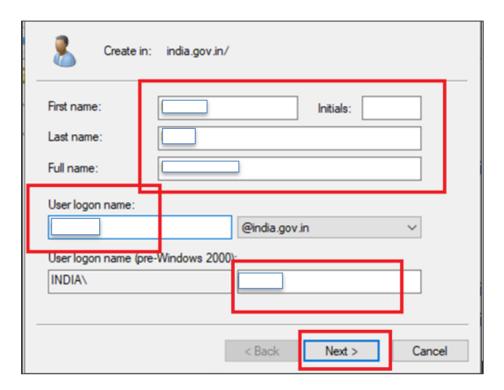


4.2 Right click on domain india.gov.in, select New, and click on User

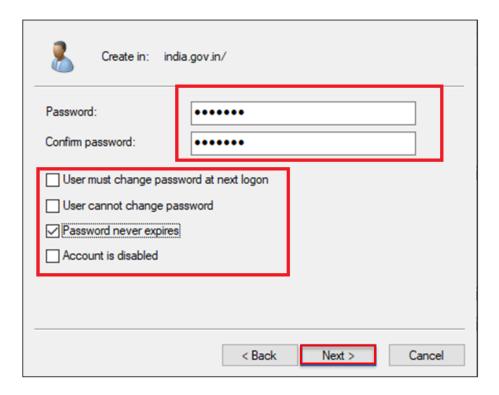




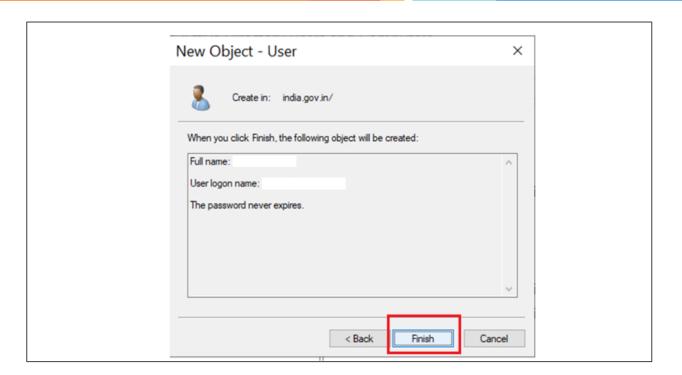
4.3 Enter the details of the user, choose a username, and click Next



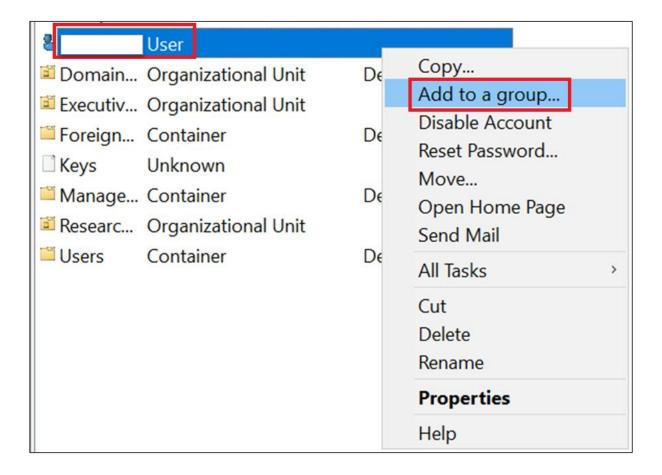
4.4 Enter the password to be set for the user and select the appropriate checkbox for the user and click **Next**, then click on **Finish**





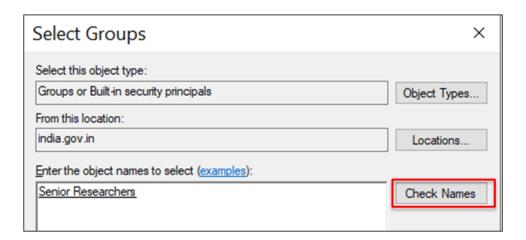


4.5 Right click on the user created and select **Add to a group**





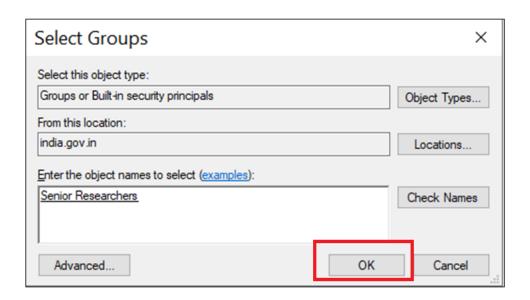
4.6 Write Senior Researchers in the textbox and click on Check Names



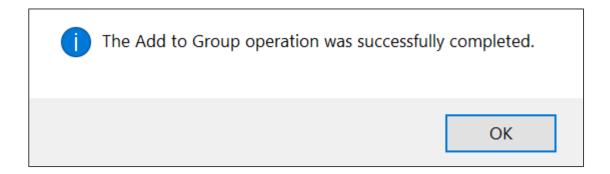
4.7 Select the **Senior Researcher** group and click **OK**



4.8 Select the tab Member Of and click on **OK**



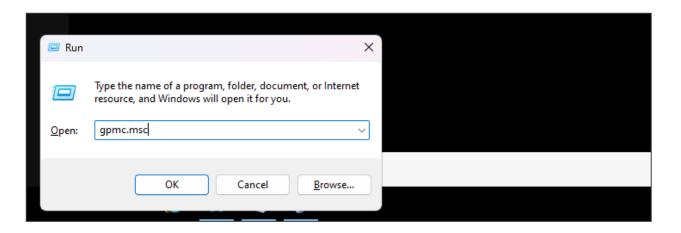




The user has been successfully added to the group Senior Researchers.

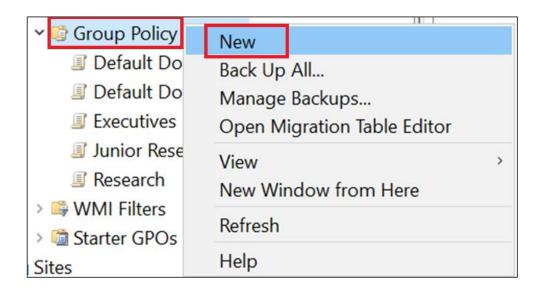
Step 5: Implement password policies

5.1 After signing in to Windows 10 client system using newly created domain user press windows+r and type **gpmc.msc** and click **OK**

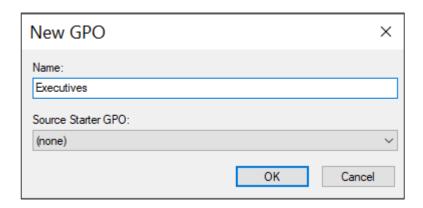




5.2 Right-click on Group Policy Objects and click New

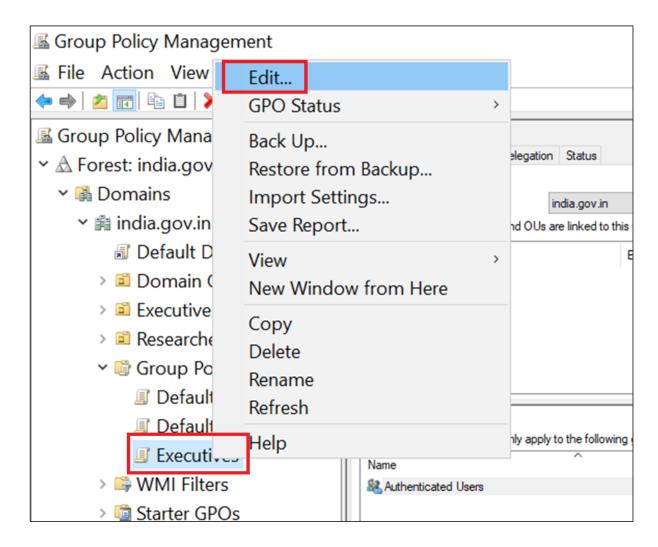


5.3 Write the Name of the group policy as Executives and click on OK



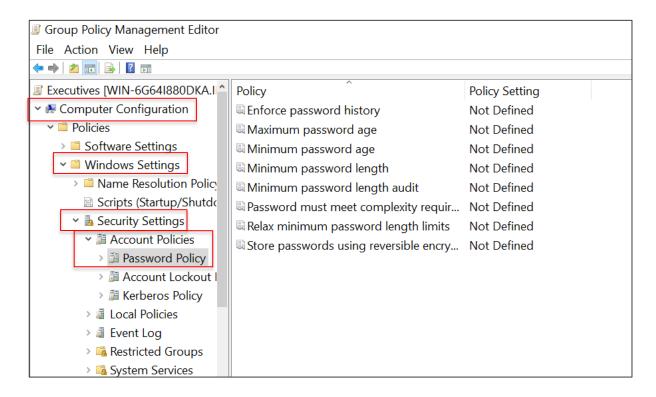


5.4 Right-click on the newly created object and click Edit

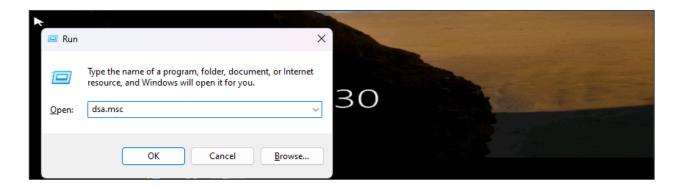




5.5 Navigate to Computer Configuration>Windows Settings>Security Settings>Account Policies>Password Policy

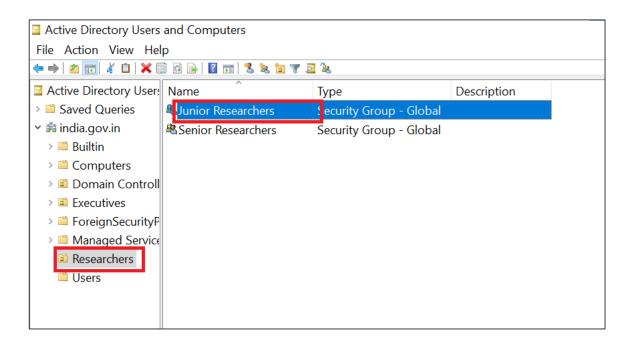


5.6 press windows+r and type dsa.msc and click OK

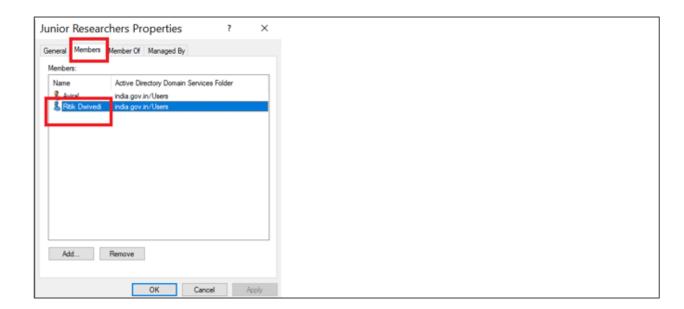




5.7 Double click on Researchers and then double click on Junior Researchers

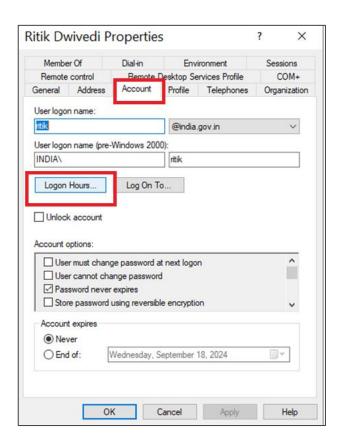


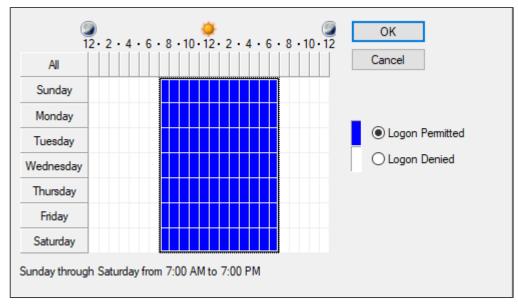
5.8 Click on **Members** and double click on Ritik Dwivedi





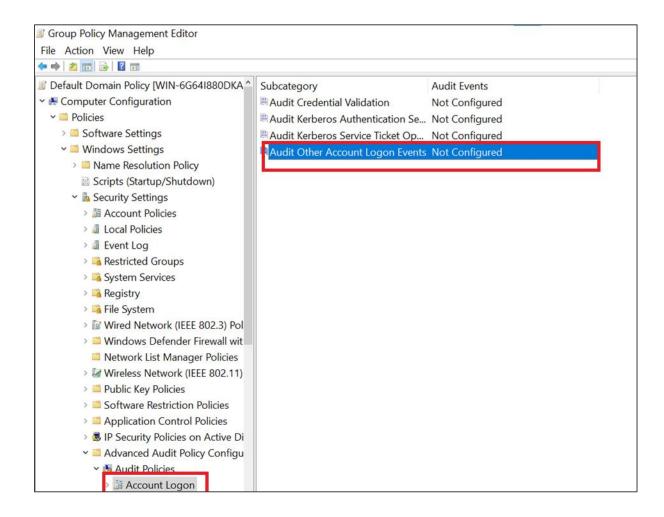
5.9 Click on **Account** and select **Logon Hours**, then set logon hours between 7:00 AM to 7:00 PM





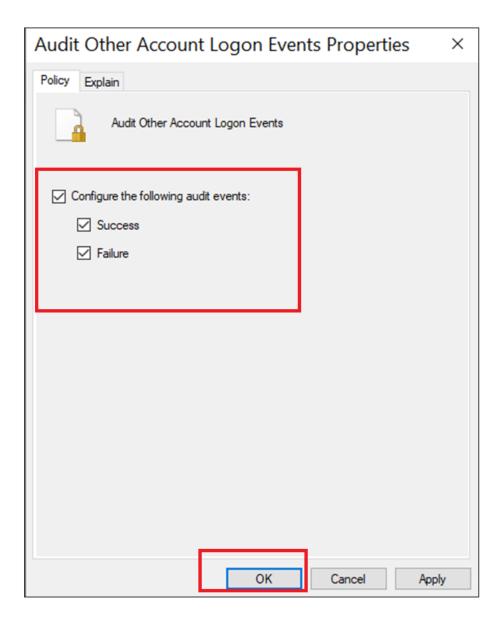


5.10 Now navigate to Computer Configuration>Windows Setting>Security Settings>
Advanced Audit Policy Configuration> Audit Policies> Account Logon, then click on
Audit other Account Logon Events Not Configured



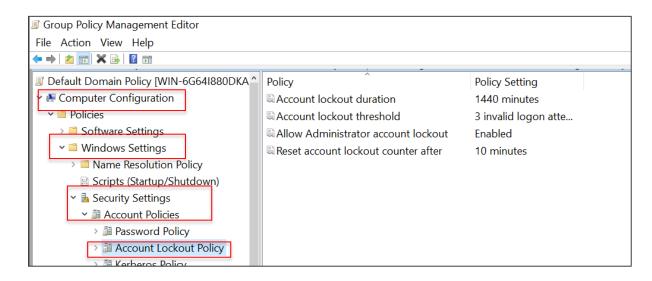


5.11 Select both Success and Failure and click on OK



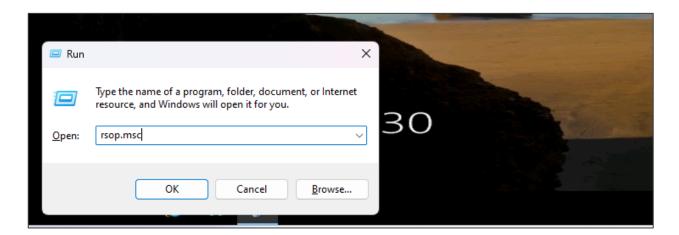


5.12 Navigate to Computer Configuration>Windows Settings>Security Settings>Account Policies>Account Lockout Policy

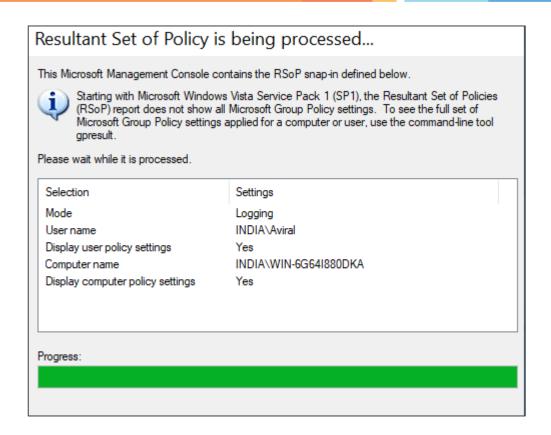


Step 6: Integrate compliance and reporting

6.1 Press windows+r and type **rsop.msc** to generate resultant set of policy (RSOP):







By completing these steps, you have successfully integrated Active Directory to enhance user management and compliance within your organization. This integration not only streamlines administrative tasks but also fortifies security protocols.