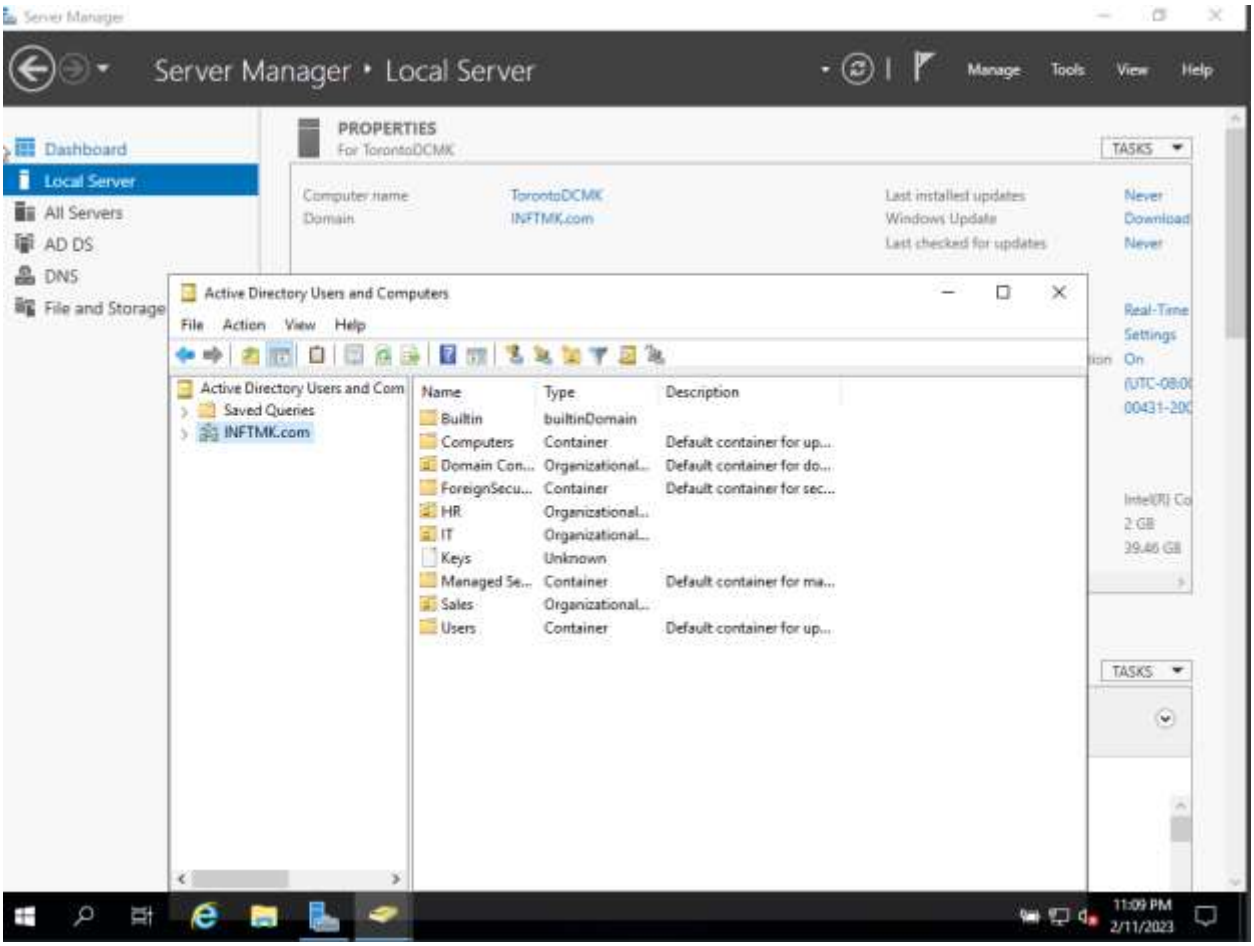
Use GUI for the following steps:

Part 1A: Creating and Managing Groups and OU's using GUI

On the **Toronto Domain Controller**

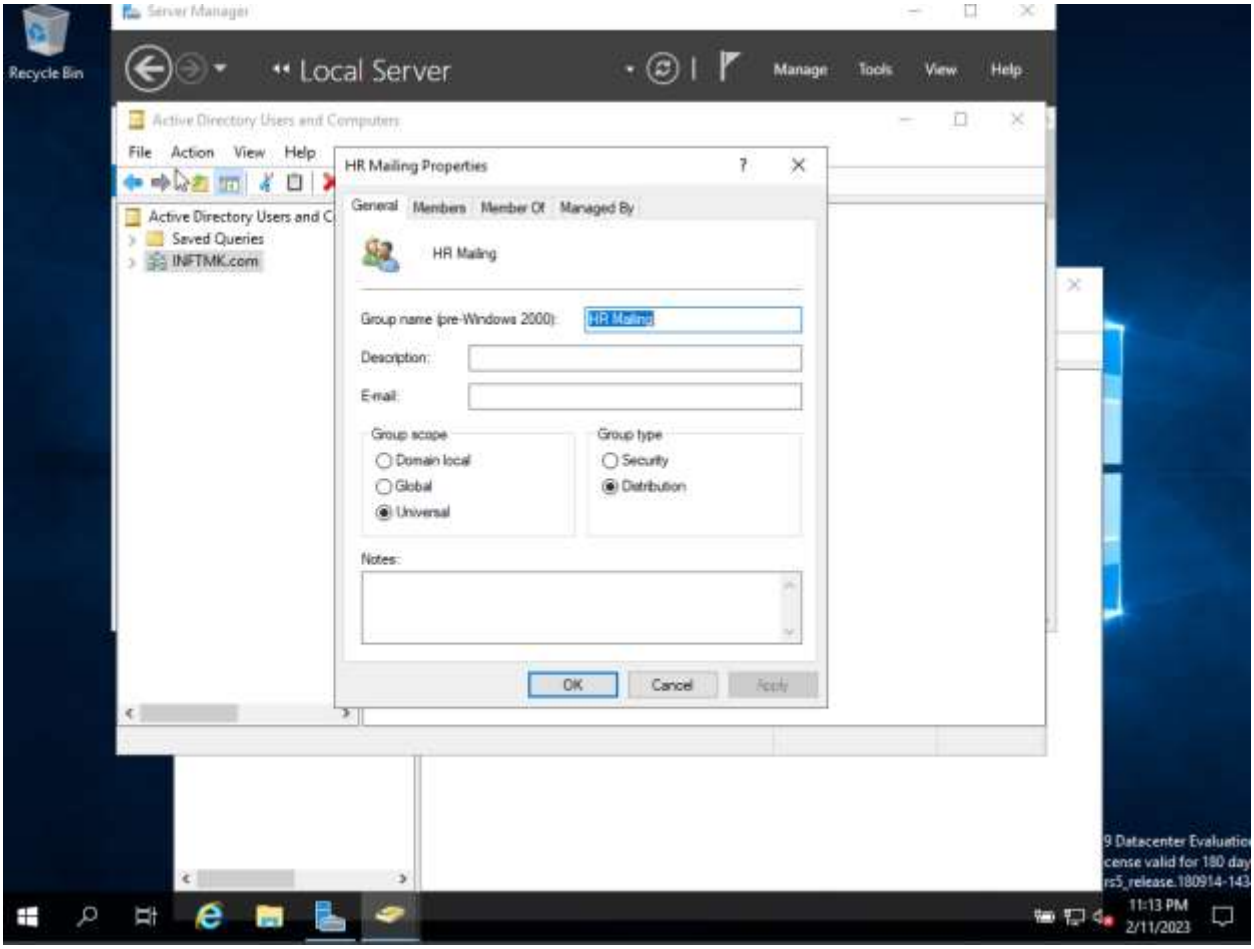
1. Log in as the **Domain Administrator** account
2. Open **Active Directory Users and Computers**
3. Create the following **OUs** directly under the Domain Object:
    - HR
    - Sales
    - IT

Take a screenshot of the OUs



4. Open the **Groups OU**
5. Create a **Distribution Group** named **HR Mailing** within the Groups OU
    - Scope: Universal
    - Type: Distribution
6. Right click the **HR Mailing** group and select *Properties*

Take a screenshot of the contents within the *General* tab before clicking "OK"

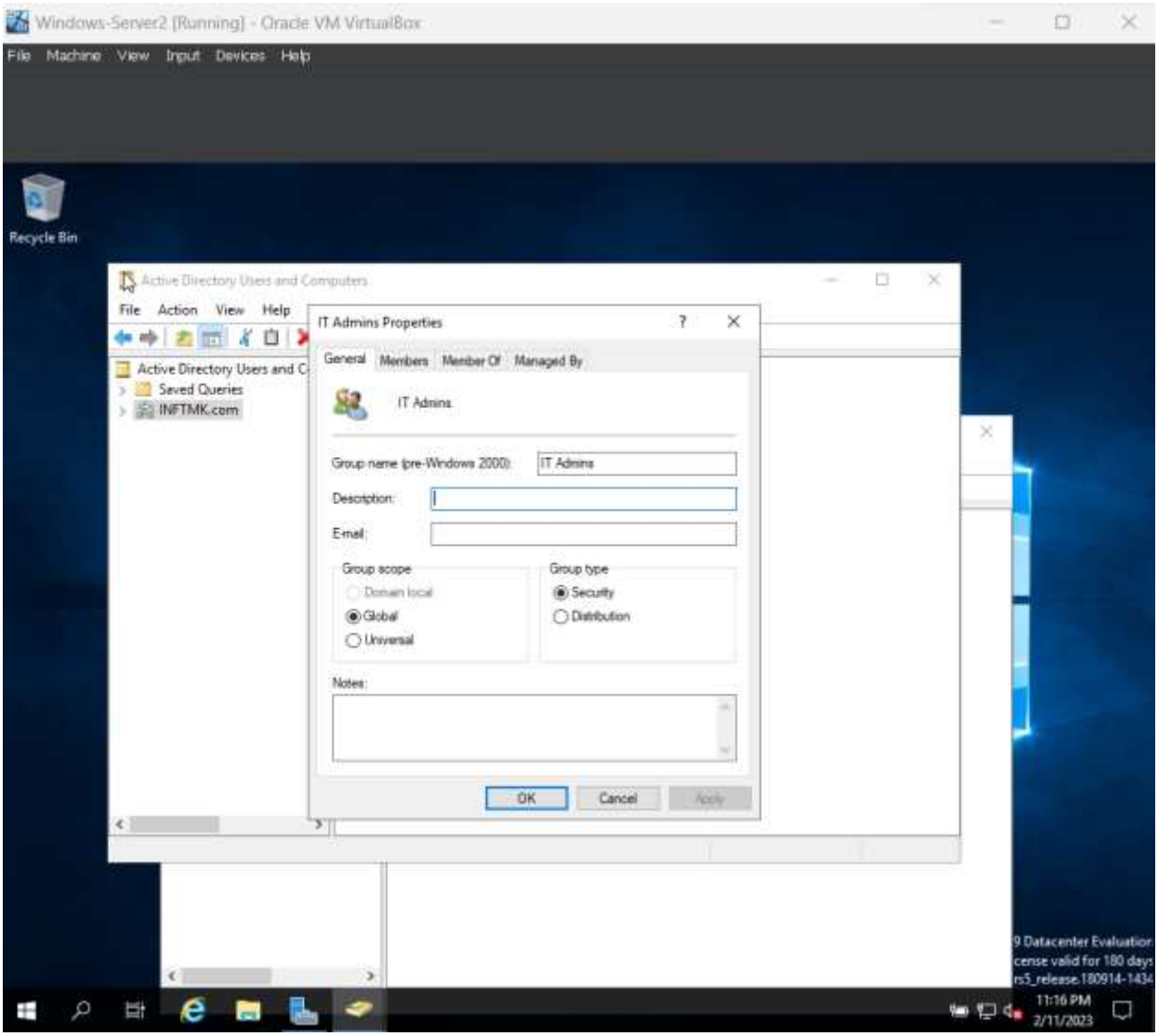


7. Create a **Security Group** named **IT Admins** within the Groups OU
    - Scope: Global

- Type: Security

8. Right click the **IT OU** and select *Delegate Control*
    - Add the **IT Admins** group using the *Delegation of Control Wizard*
    - Delegate to following common tasks: *Create, delete, and manage user accounts*

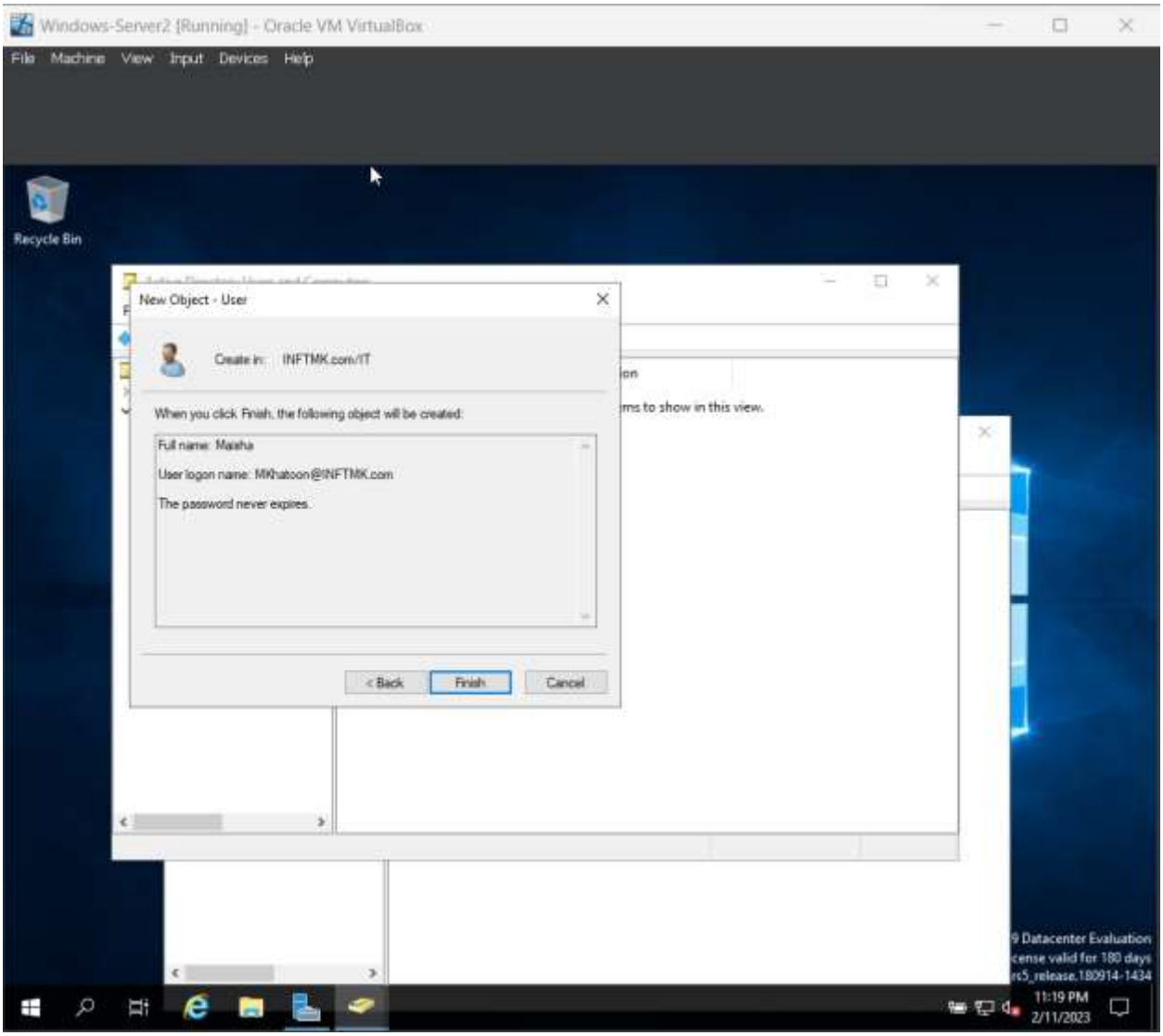
Take a screenshot of the final *Delegation of Control Wizard* screen before clicking "Finish"



9. Open the **IT OU** within Active Directory

- Create a new user account within the **IT OU**
    - Name: Your Name
    - User logon name: first initial last name
    - Uncheck: User must change password at next logon
    - Check: Password never expires

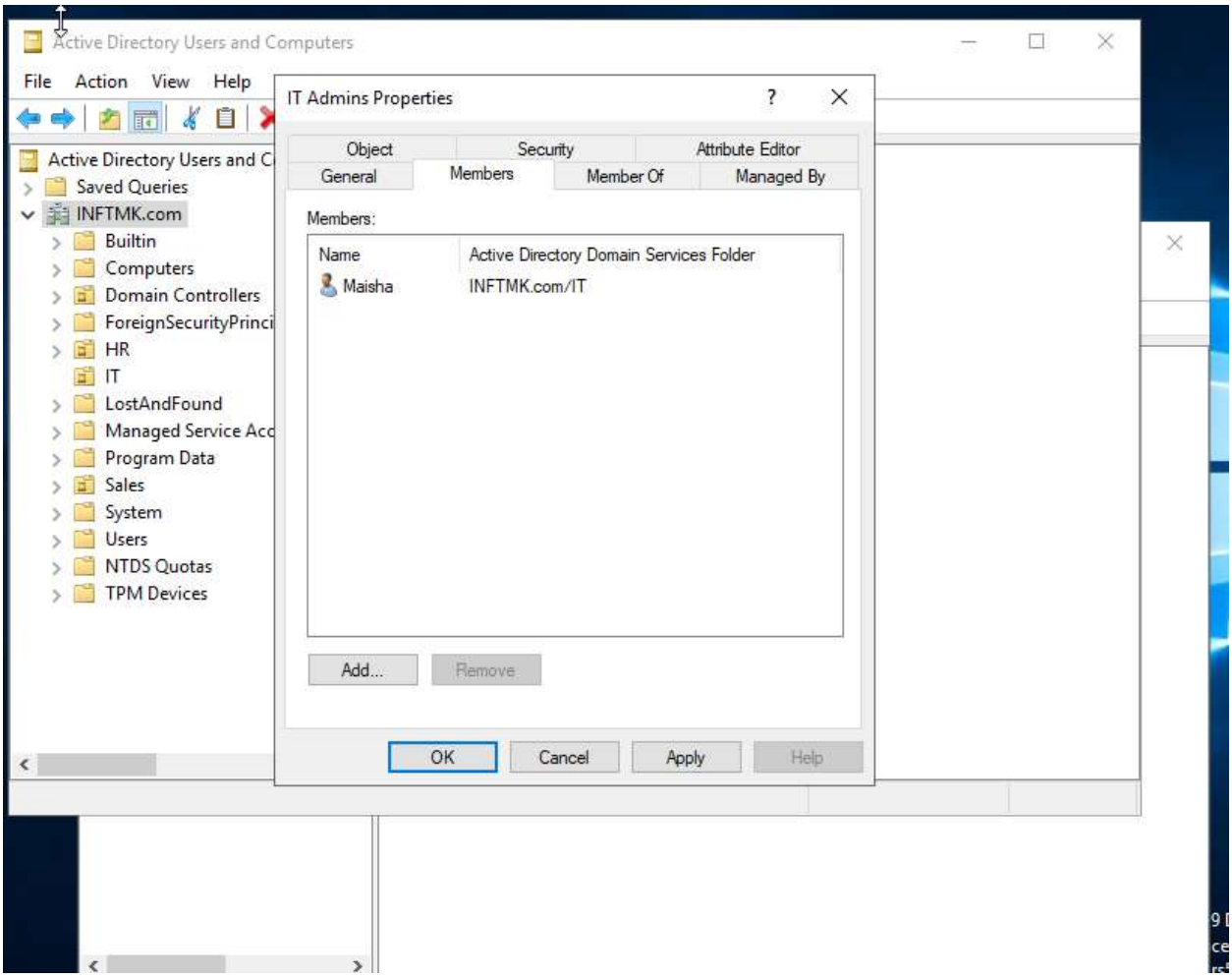
Take a screenshot of the New Object window before clicking “Finish”



10. Right click on the created user account and select *Properties*

- Select the *Attribute Editor* tab
- Select the *distinguisedName* attribute` security group
- Right click and select *Properties*
- Go to the *Members* tab
- Click *Add*
- Add your user account to the IT Admins security group

Take a screenshot of the Members tab and paste below before selecting "*OK*"



Using Powershell for the following steps:

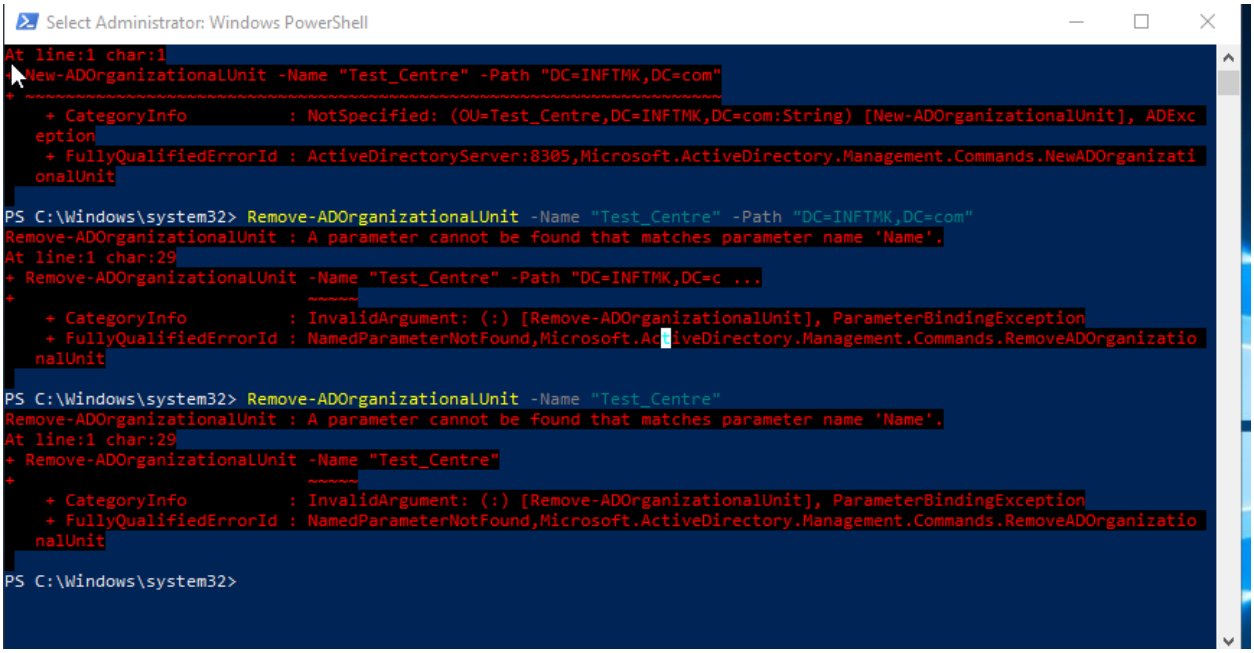
Part 1B: Creating and Managing Groups and OU's using Powershell:

11. Create a OU called Test Centre.

On the **Toronto Domain Controller:**

- Open **PowerShell** as Administrator
- Type the following command: *New-ADOrganizationalUnit -Name "Test_Centre" -Path "DC=INFT1103,DC=com"*
- Open Active Directory Users and Computers

Take a screenshot of the output and paste it here



Here I faced some issues while writing the commands. That's why I was unable to finish the rest of the questions.

12. Create a security group named :test_centre_admin"

On the **Toronto itDomain Controller:**

- Open **PowerShell** as Administrator

- Type the following command:
- *New-ADGroup -Name"test_centre_admin" -GroupScope Global -GroupCategory Security -Path "OU=Test_Centre,DC=inft1103,DC=com"*
- Open Active Directory Users and Computers

Take a screenshot of the output and paste it here

13. Delegation control for test_centre_admin

On the **Toronto Domain Controller:**

- Open **PowerShell** as Administrator
- Type the following command:
- *Add-ADPermission -Identity "OU=Test_Centre,DC=inft1103,DC=com" -User "test_centre_admin" -ExtendedRights "Create Child, Delete Child, Modify Permission"*

- Open Active Directory Users and Computers

Take a screenshot of the output and paste it here

The following steps are mixed with GUI and Powershell:

Part 2: Service Accounts

14. On the **Toronto DC**, create a KDS root key:
    - Open **PowerShell** as Administrator
    - type the following command: *Add-KDSRootKey -EffectiveTime ((Get-Date).AddHours(-10))*

Take a screenshot of the output and paste it here

15. Create a **Traditional Service Account:**

- Open Active Directory Users and Computers
- Create an **OU** below the Domain Object called **Service Accounts**
- Select the Service Accounts OU and create a **User account**
    - Name: backup service
    - User logon name: bu_service
    - Unchecked: User must change password at next logon
    - Checked: Password never expires
- Open PowerShell as Administrator
    - Type the following command: *Setspn –U –S backup/fileserver bu_service*

Take a screenshot of the response message before closing the PowerShell window

Part 3: Domain Password Policy

16. On the TorontoDC open **Group Policy Management**

a. Expand forest: INFT1103.com
b. Expand Domains
c. Expand INFT1103.com
d. Right click the Default Domain Policy and select *Edit*
e. Expand: *Computer Configuration\Policies\Windows Settings\Security Settings\Account Policies\Password Policy*
f. Open *Maximum password age*
    i. Uncheck: Define this policy setting
    ii. Click OK
g. Open Minimum password length
    iii. Password must be at least: 8 characters
    iv. Click OK

Take a screenshot of the Password Policy Settings before closing the Group Policy Management Editor

Reflection:

So, which way do you prefer to use when managing Active Directory? Why? Do you see the advantages to using PowerShell? Please provide your answer below.

Ans: PowerShell is better for API and automation scripts. While the UI is good for day to day use for smaller task.