

# Lab Assignment 2 (Part I) - GPO

## Lab Objective

This lab is designed to **understand and apply Group Policy Objects (GPOs)** in a domain environment.

You will **create, configure, and manage GPOs using both the GUI and PowerShell**, apply security filtering, implement WMI filters, and test GPO processing order, enforcement, and inheritance rules.

By the end of this lab, you should be able to effectively deploy and troubleshoot GPOs within an enterprise environment.

## Lab Environment Requirements

- **DC1XX:** Domain Controller with Active Directory, DNS, and Group Policy Management installed.
  - **ClientXX:** Windows 11 client machine joined to the domain.
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## Tasks

### Task 1: Configuring Group Policy using **GUI**

1. **Objective:** Prevent users from opening the **Windows Registry** using a Group Policy Object (GPO).
2. **GPO Name:** **RestrictRegistryAccess**
3. **Steps:**
  - Create a new GPO named **RestrictRegistryAccess**.
  - Configure the required setting to **block access to the registry editing tools**.
  - Link the GPO to the **Finance OU**.
  - Use **Security Filtering** to ensure that **Ava Mercier** from **Finance** is not affected by this GPO.
4. **Testing:**
  - Log in to **ClientXX** with any **Finance user** and verify that the **registry editing tools are blocked**.
  - Log in as **Ava Mercier** and confirm that the **GPO does not apply**.

## Task 2: Configuring Group Policy using PowerShell

1. **Objective:** Disable access to the Control Panel using PowerShell.
  2. **GPO Name:** DisableControlPanel
  3. **Steps (using PowerShell):**
    - Create a new GPO named **DisableControlPanel**
    - Configure the necessary settings to **disable access to the Control Panel**.
    - Link the GPO to the OU **HR**.
    - Use **Security Filtering** to ensure that **Emma Petit** from **HR** is not affected by this GPO.
  4. **Testing:** (Don't forget to run **gpupdate /force** on the client before each test)
    - Log in to **ClientXX** with any **HR user** and verify that the **Control Panel is disabled**.
    - Log in as **Emma Petit** and confirm that the **GPO does not apply**.
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## Task 3: Creating and Testing a WMI Filter for Windows 11 using GUI

1. **Objective:** Create a **WMI filter** that applies only to **Windows 11** devices.
2. **GPO Name:** NoRecycleBin
3. **Steps:**
  - Create a new **WMI filter** and named **Windows11**
  - Define the appropriate **query** to target **Windows 11 machines**.
  - Create a new GPO named **NoRecycleBin**.
  - Configure the necessary settings to **Remove the Recycle Bin** from the **Desktop**.
  - Link this GPO to the **Call Center OU**.
  - Link to this **GPO** to the **WMI filter Windows 11**.
4. **Testing:** (Don't forget to run **gpupdate /force** on the client before each test)
  - Log in to **ClientXX** with any user from **Call Center** user and verify that the **Recycle Bin** doesn't appear on the **Desktop**.

#### Task 4: Practicing GPO Processing Order using GUI

1. **Objective:** Understand the impact of multiple GPOs.

2. **Steps:**

- **Link Order:** (Don't forget to run **gpupdate /force** on the client before each test)
  - Create a new GPO named **AllowRegistryAccess** that **grants access to the registry editing tools**.
  - Link it to OU **Finance** as **Order 1**.
  - Test using **Eden Morin** to ensure he now has access to the registry.
- **Precedence Rules:** (Don't forget to run **gpupdate /force** on the client before each test)
  - Create OU **Finance-Admins** **inside** the OU **Finance** and move **Ethan Michel** to it.
  - Unlink the GPO **RestrictRegistryAccess** from OU **Finance** and link it to OU **Finance-Admins**.
  - Test using **Eden Morin** to verify that the **registry editing tools** are now blocked.
- **Enforced GPO:** (Don't forget to run **gpupdate /force** on the client before each test)
  - Enforce the **AllowRegistryAccess** GPO on OU **Finance**.
  - Test using **Eden Morin** to confirm he has access to the **registry editing tools**.
- **Block Inheritance:** (Don't forget to run **gpupdate /force** on the client before each test)
  - Remove Enforce the **AllowRegistryAccess** GPO on OU **Finance**.
  - Block inheritance on OU **Finance-Admins**.
  - Test using **Eden Morin** to ensure the **registry editing tools** are now blocked.
- **Link Enabled:** (Don't forget to run **gpupdate /force** on the client before each test)
  - Uncheck **Link Enabled** on the **RestrictRegistryAccess** GPO on OU **Finance-Admins**
  - Test using **Eden Morin** to confirm he has access to the **registry editing tools**.

### Task 5: Exploring Default Group Policy Objects using GUI

1. **Objective:** Understand and analyze the impact of Default Domain Policy and Default Domain Controllers Policy.
  2. **Steps:**
    - Identify and review the **two default GPOs** in the domain.
    - Generate a **Settings Report** for both policies.
    - Analyze the impact of these GPOs **without making any modifications** or testing at this stage.
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### Lab Assignment Deliverables

You should submit a **lab report** in **PDF** including **screenshots** covering your work.