

Lab Assignment & Solution



Cybersecurity Professional Program

Microsoft Security

Group Policy

MS-05-L1

Basic GPO Configuration

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Lab Objective

Learn to secure an environment by applying basic policies to users using GPOs.

Lab Mission

Configure group policy objects to secure client machines and prevent unauthorized users from making changes.

Lab Duration

20–40 minutes

Requirements

- Knowledge of the ADUC structure
- Familiarity with the Windows Server environment

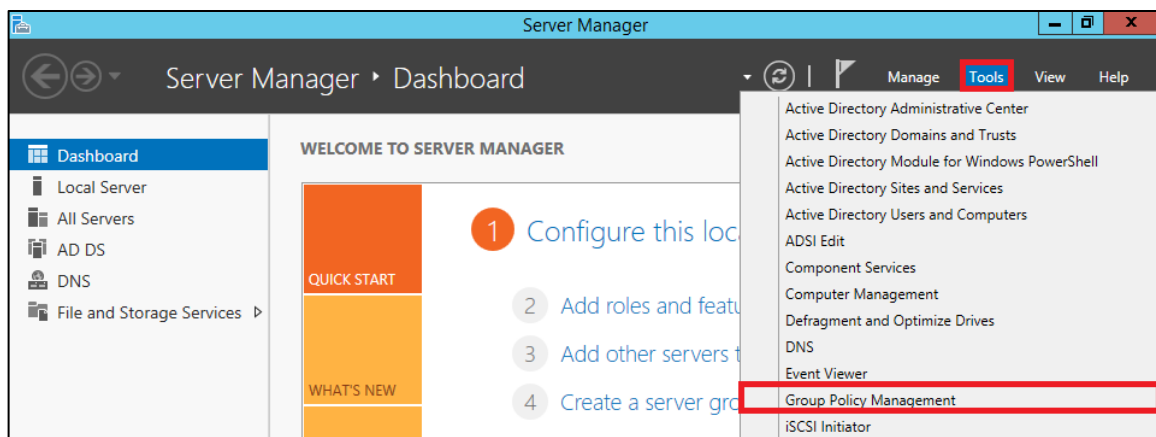
Resources

- Environment & Tools
 - VirtualBox
 - Windows Server 2016
 - Windows 10

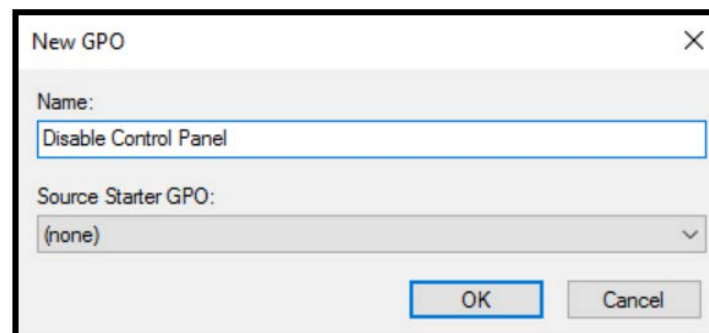
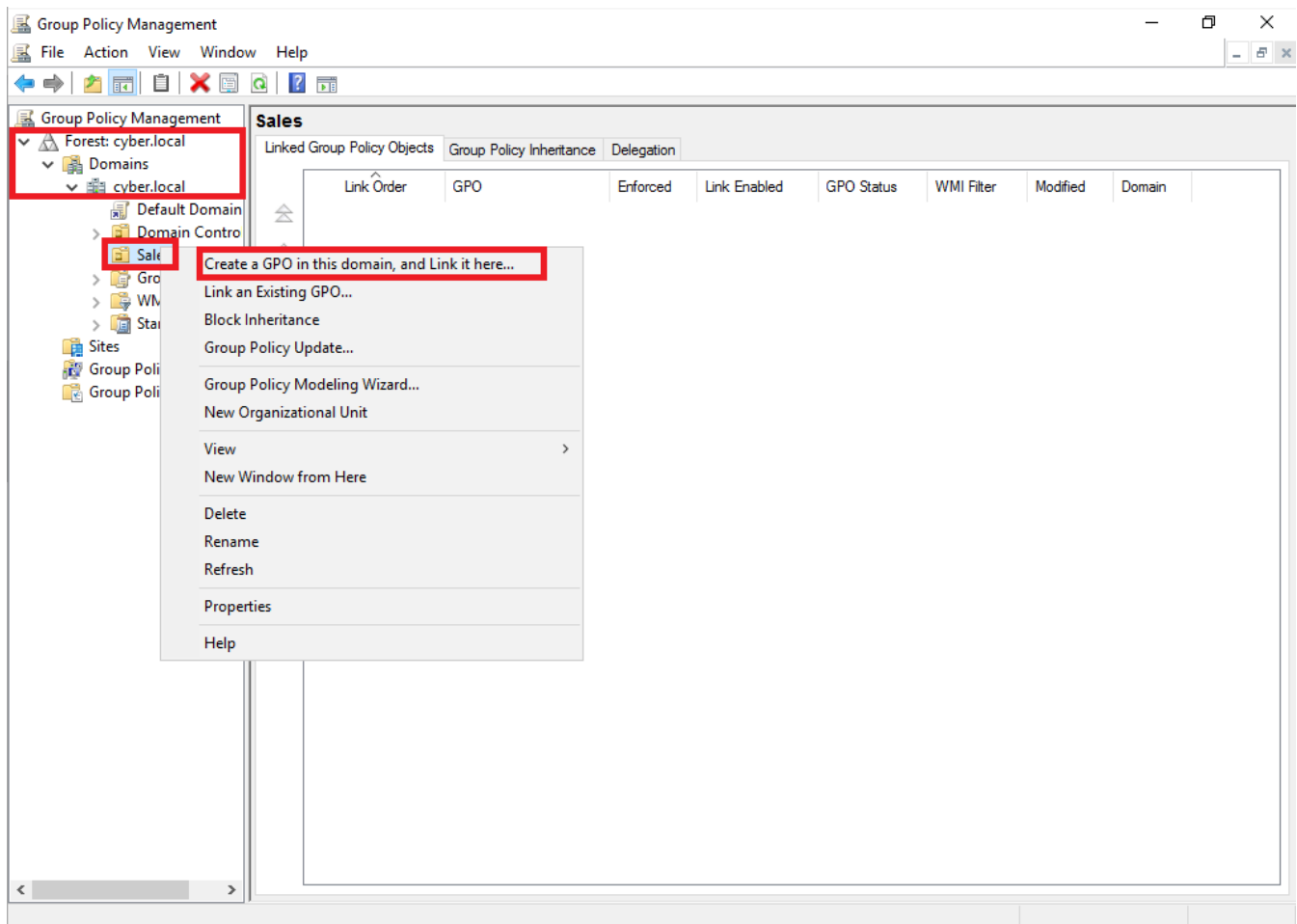
Lab Task 1: Create Organization Units & Group Policy Objects

Practice Group Policy configuration on the domain controller via Group Policy Management by creating four new GPOs.

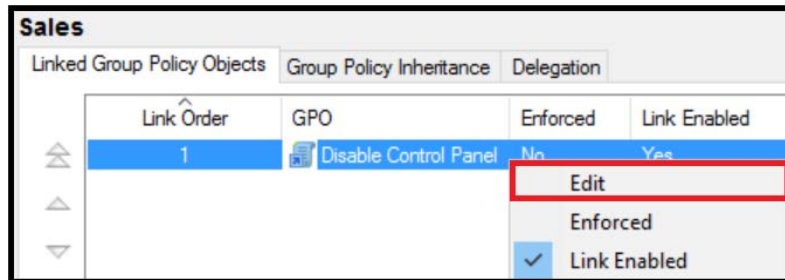
- 1 Access the **Group Policy Management Console (GPMC)** by clicking the **Tools** tab and selecting **Group Policy Management**.



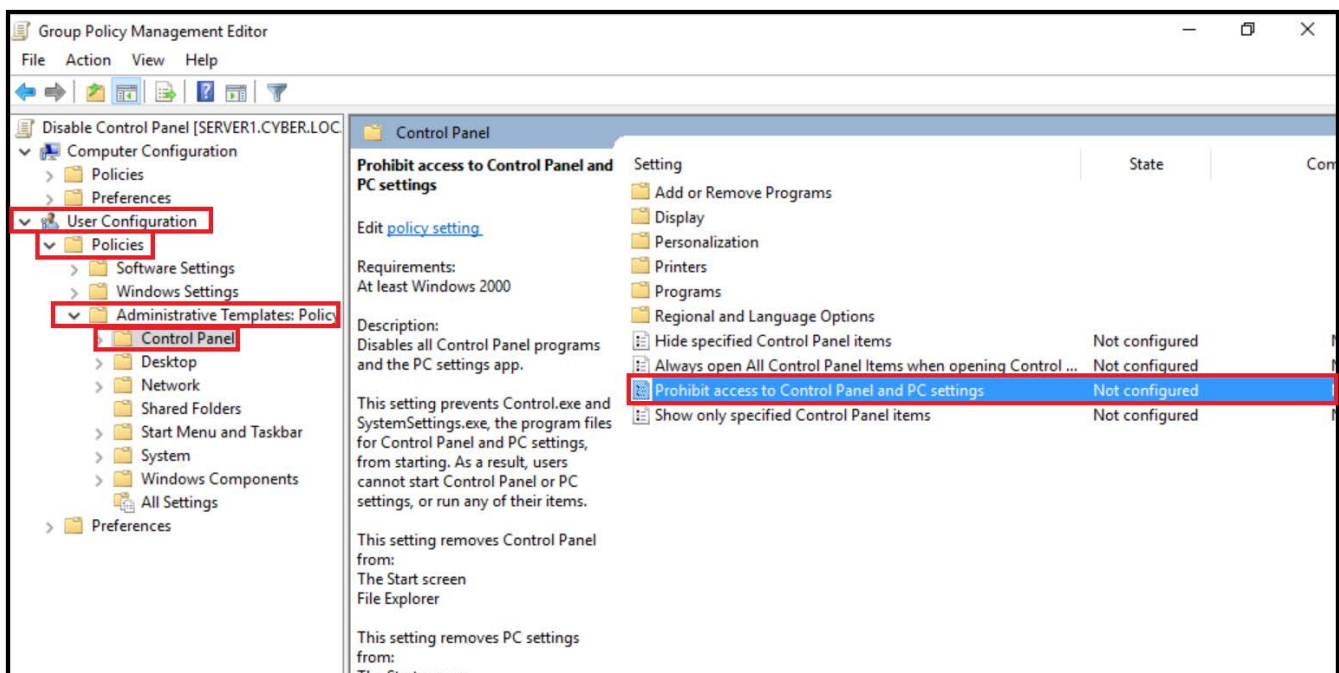
- 2 Expand **Forest: cyber.local > Domains > cyber.local** and right-click **Sales OU**. Select **Create a GPO in this domain, and Link it here...** Name the new GPO **Disable Control Panel**.



3 Right-click the GPO and click **Edit**.



4 In the **Group Policy Management Editor** window, in the left pane, navigate to **User Configuration > Policies > Administrative Templates > Control Panel** and click it. On the right side of the screen, right-click **Prohibit access to Control Panel and PC settings** and choose **Edit**.



- 5 On the next window, select **Enabled** and click **Apply**, then **OK**.

Prohibit access to Control Panel and PC settings

Prohibit access to Control Panel and PC settings Previous Setting Next Setting

☐ Not Configured Comment:

☒ Enabled

☐ Disabled Supported on: At least Windows 2000

Options:

Help:

Disables all Control Panel programs and the PC settings app.

This setting prevents Control.exe and SystemSettings.exe, the program files for Control Panel and PC settings, from starting. As a result, users cannot start Control Panel or PC settings, or run any of their items.

This setting removes Control Panel from:

- The Start screen
- File Explorer

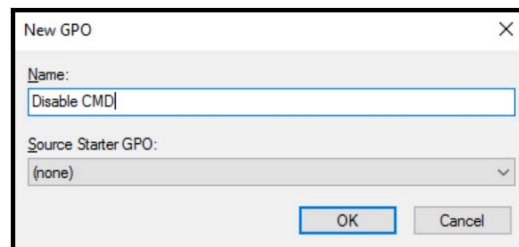
This setting removes PC settings from:

- The Start screen
- Settings charm
- Account picture
- Search results

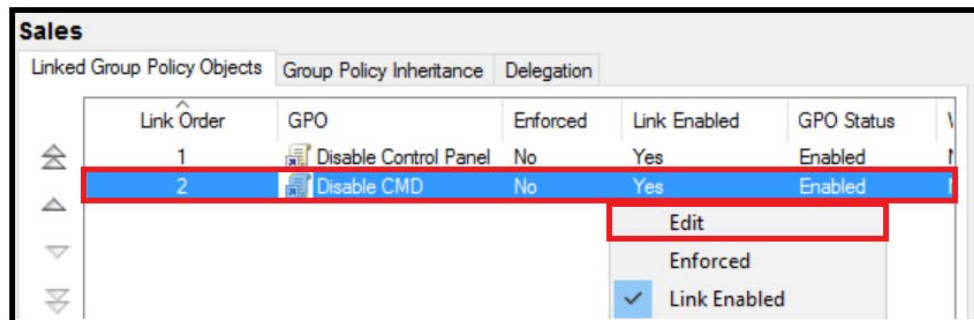
If users try to select a Control Panel item from the Properties item on a context menu, a message appears explaining that a setting prevents the action.

OK Cancel Apply

- 6 Exit the window and create another GPO under **Sales OU** called **Disable CMD**. Once created, right-click the new GPO and choose **Edit**.



A screenshot of the 'New GPO' dialog box. The 'Name' field contains 'Disable CMD'. The 'Source Starter GPO' dropdown is set to '(none)'. There are 'OK' and 'Cancel' buttons at the bottom right.



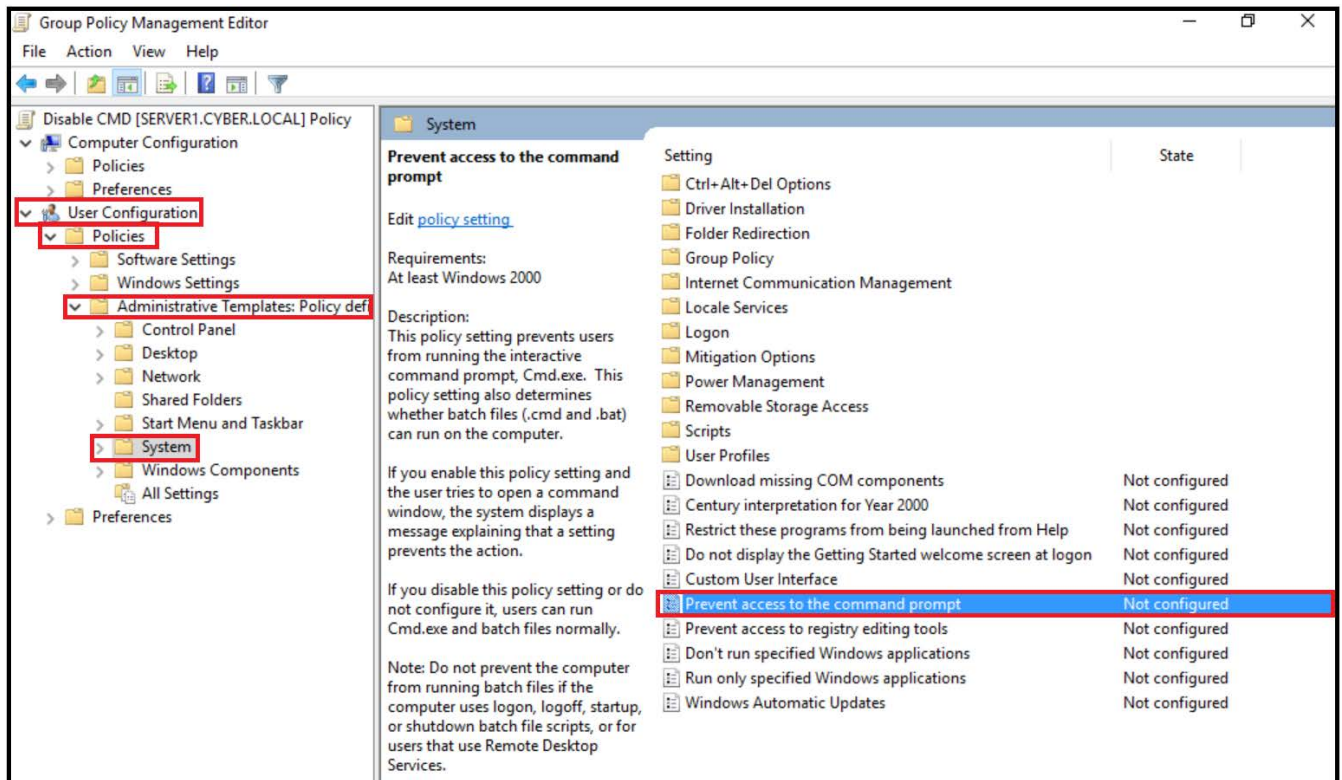
A screenshot of the Group Policy Management console for the 'Sales' OU. The 'Linked Group Policy Objects' tab is selected. A table lists two GPOs: 'Disable Control Panel' (Link Order 1) and 'Disable CMD' (Link Order 2). The 'Disable CMD' GPO is highlighted with a red box. A right-click context menu is open over the 'Disable CMD' GPO, with the 'Edit' option highlighted by a red box.

Link Order	GPO	Enforced	Link Enabled	GPO Status
1	Disable Control Panel	No	Yes	Enabled
2	Disable CMD	No	Yes	Enabled

Context menu options:

- Edit
- Enforced
- Link Enabled (checked)

- 7 Navigate to **User Configuration > Policies > Administrative Templates > System** and click it. On the right side, right-click **Prevent access to the command prompt** and choose **Edit**.



8 On the next window, check **Enabled** and click **Apply**, then **OK**.

Prevent access to the command prompt

Prevent access to the command prompt

Previous Setting Next Setting

☐ Not Configured Comment:

☒ **Enabled**

☐ Disabled

Supported on: At least Windows 2000

Options:

Disable the command prompt script processing also?

No

Help:

This policy setting prevents users from running the interactive command prompt, Cmd.exe. This policy setting also determines whether batch files (.cmd and .bat) can run on the computer.

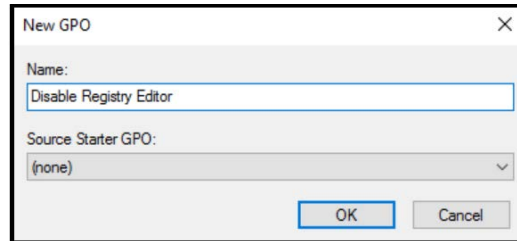
If you enable this policy setting and the user tries to open a command window, the system displays a message explaining that a setting prevents the action.

If you disable this policy setting or do not configure it, users can run Cmd.exe and batch files normally.

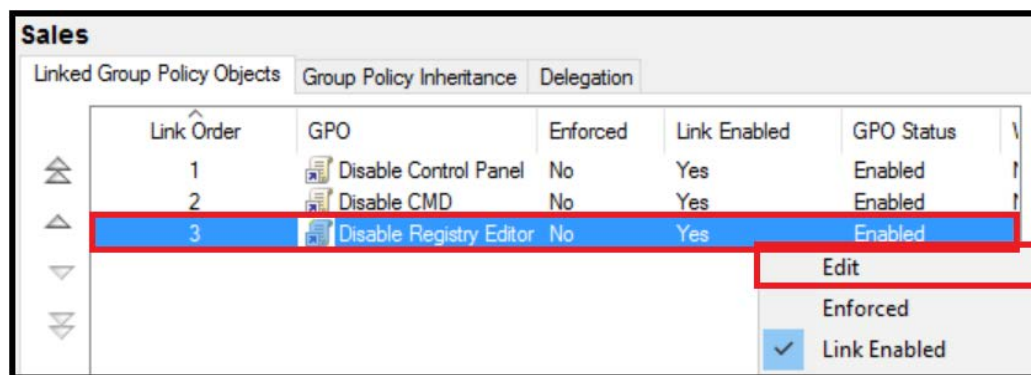
Note: Do not prevent the computer from running batch files if the computer uses logon, logoff, startup, or shutdown batch file scripts, or for users that use Remote Desktop Services.

OK Cancel **Apply**

- 9 Exit the window and create another GPO under **Sales OU** called **Disable Registry Editor**. Once created, right-click the new GPO and choose **Edit**.



A screenshot of the 'New GPO' dialog box. The 'Name' field contains 'Disable Registry Editor'. The 'Source Starter GPO' dropdown is set to '(none)'. There are 'OK' and 'Cancel' buttons at the bottom right.

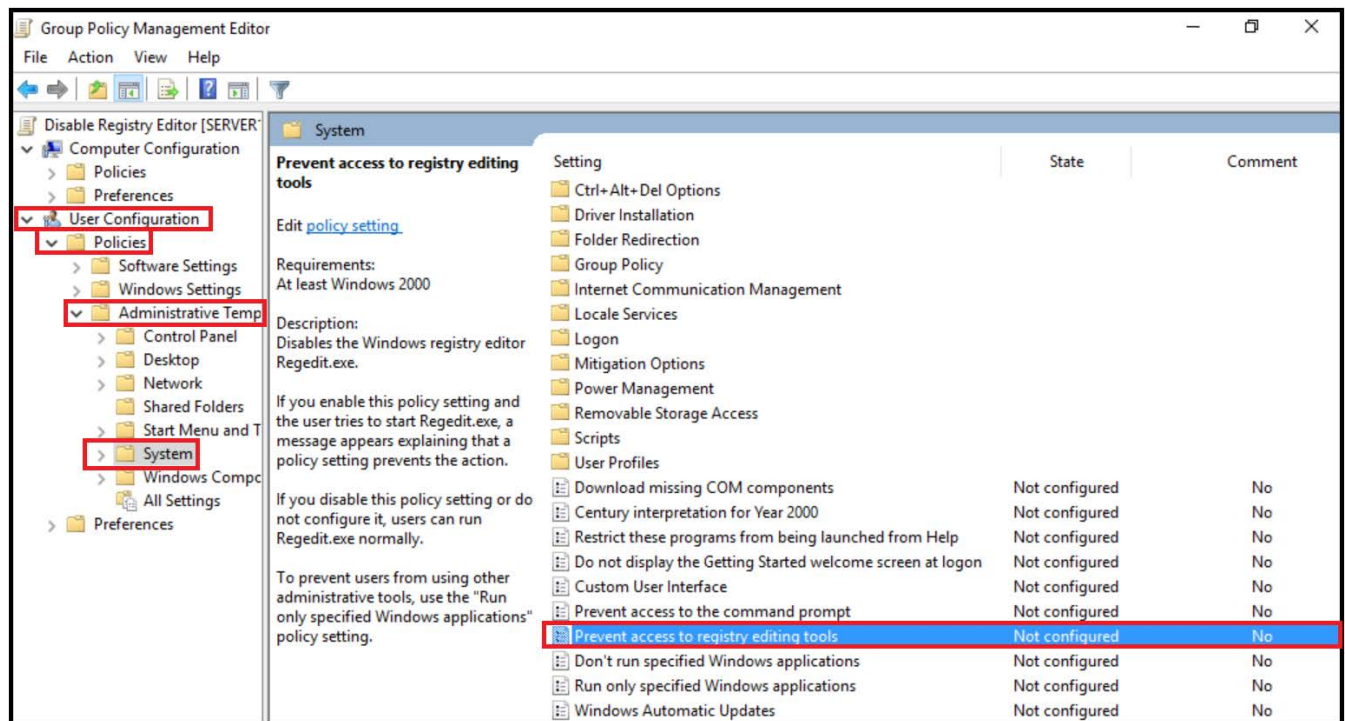


A screenshot of the Group Policy Objects console for the 'Sales' OU. The 'Linked Group Policy Objects' tab is selected. A table lists three GPOs. The third GPO, 'Disable Registry Editor', is highlighted with a red box. A right-click context menu is open over this GPO, with the 'Edit' option highlighted.

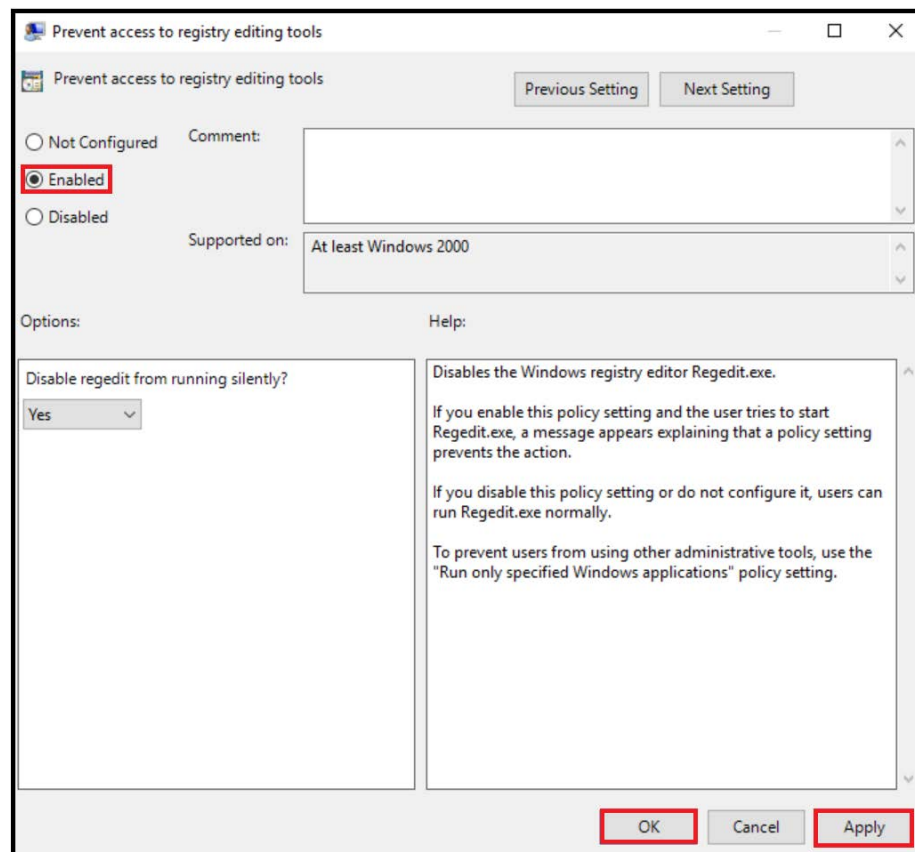
Link Order	GPO	Enforced	Link Enabled	GPO Status
1	Disable Control Panel	No	Yes	Enabled
2	Disable CMD	No	Yes	Enabled
3	Disable Registry Editor	No	Yes	Enabled

- Edit
- Enforced
- ☒ Link Enabled

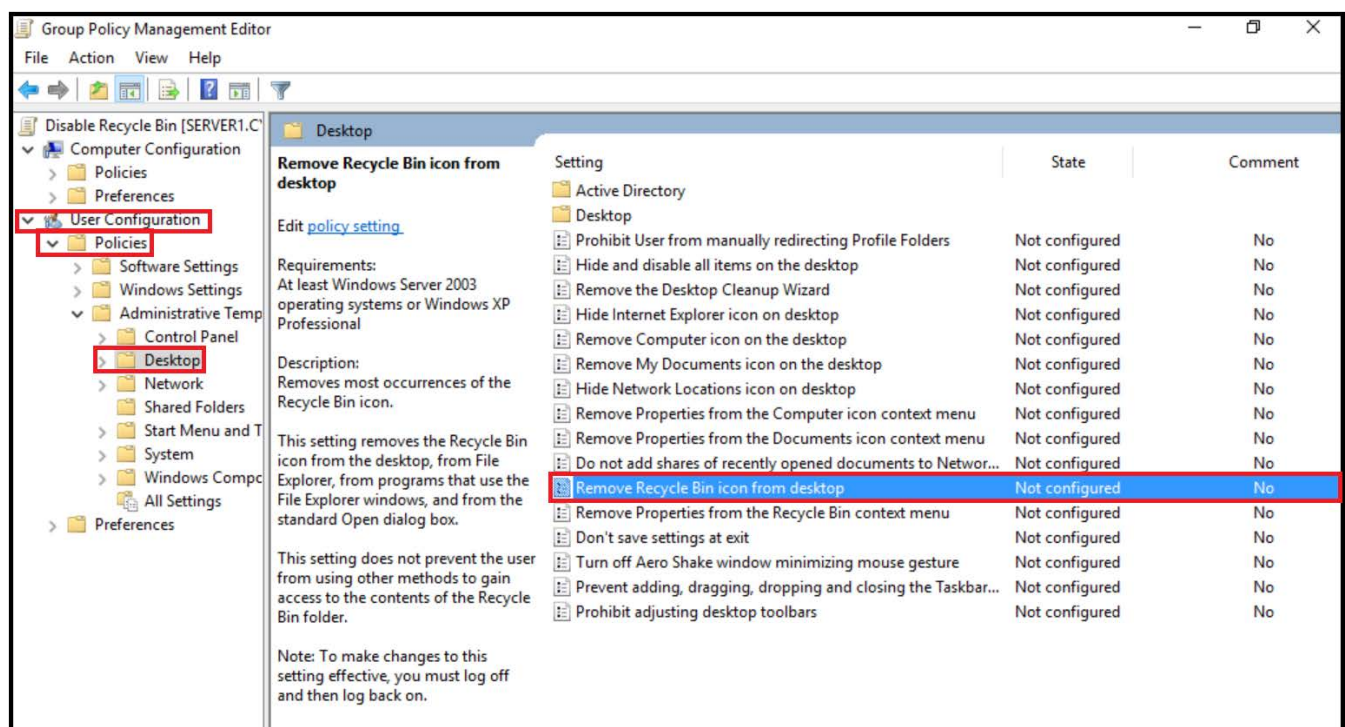
- 10 Navigate to **User Configuration > Policies > Administrative Templates > System** and click it. On the right side, right-click **Prevent access to registry editing tools** and choose **Edit**.



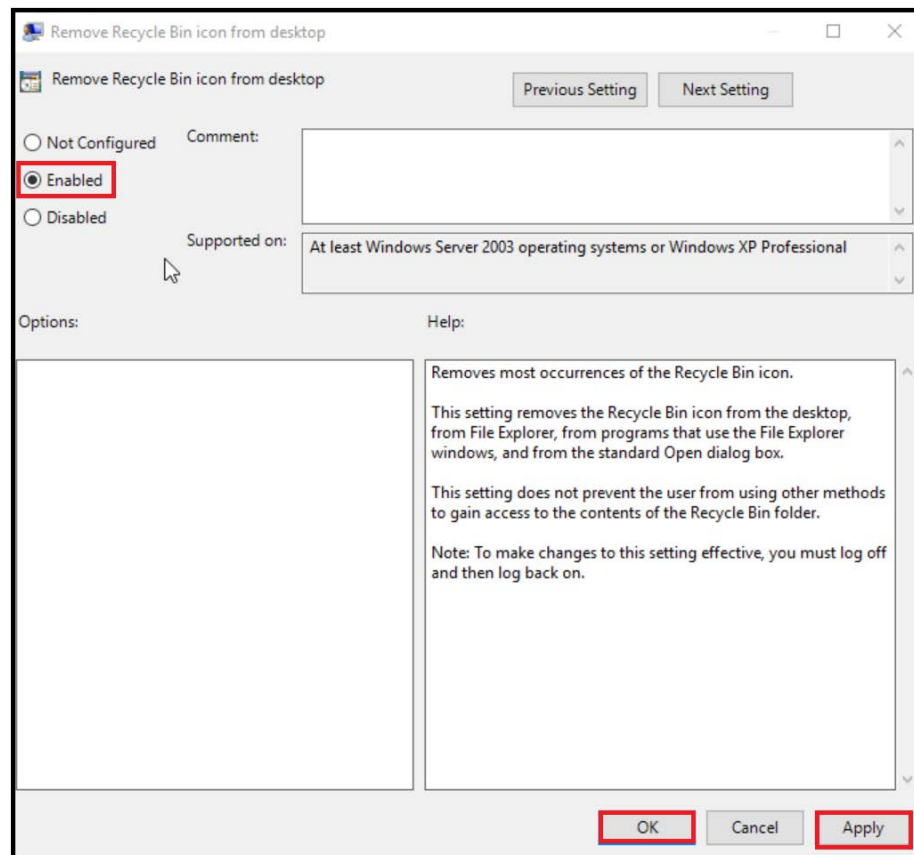
11 On the next window, check **Enabled** and click **Apply**, then **OK**. Close the window.



- 12 On the left pane, right-click the **cyber.local** domain and choose **Create a GPO in this domain, and Link it here...** Refer to Step 2 if you need to recall how to perform this step, but make sure you select the **cyber.local** domain.
- 13 Create a new GPO called **Disable Recycle Bin**. Then right-click the new GPO and select **Edit**.
- 14 Navigate to **User Configuration > Policies > Administrative Templates > Desktop** and click it. On the right side, right-click **Remove Recycle Bin icon from desktop** and choose **Edit**.



15 On the next window, select **Enabled** and click **Apply**, then **OK**. Close the window.



Lab Task 2: Verify GPO Configuration

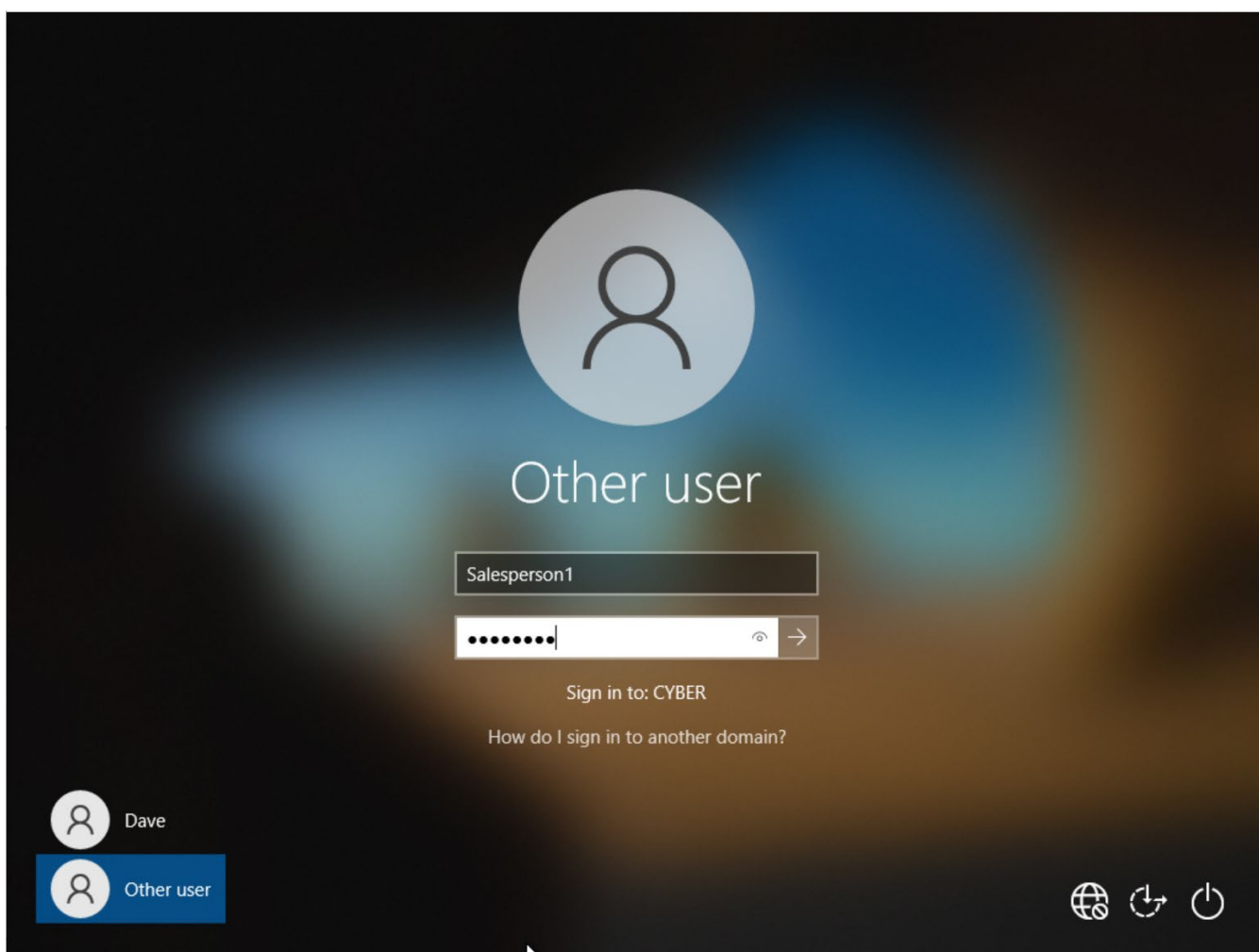
Run the policy update command and verify that the settings were applied.

- 1 Log onto the client VM using Salesperson1.

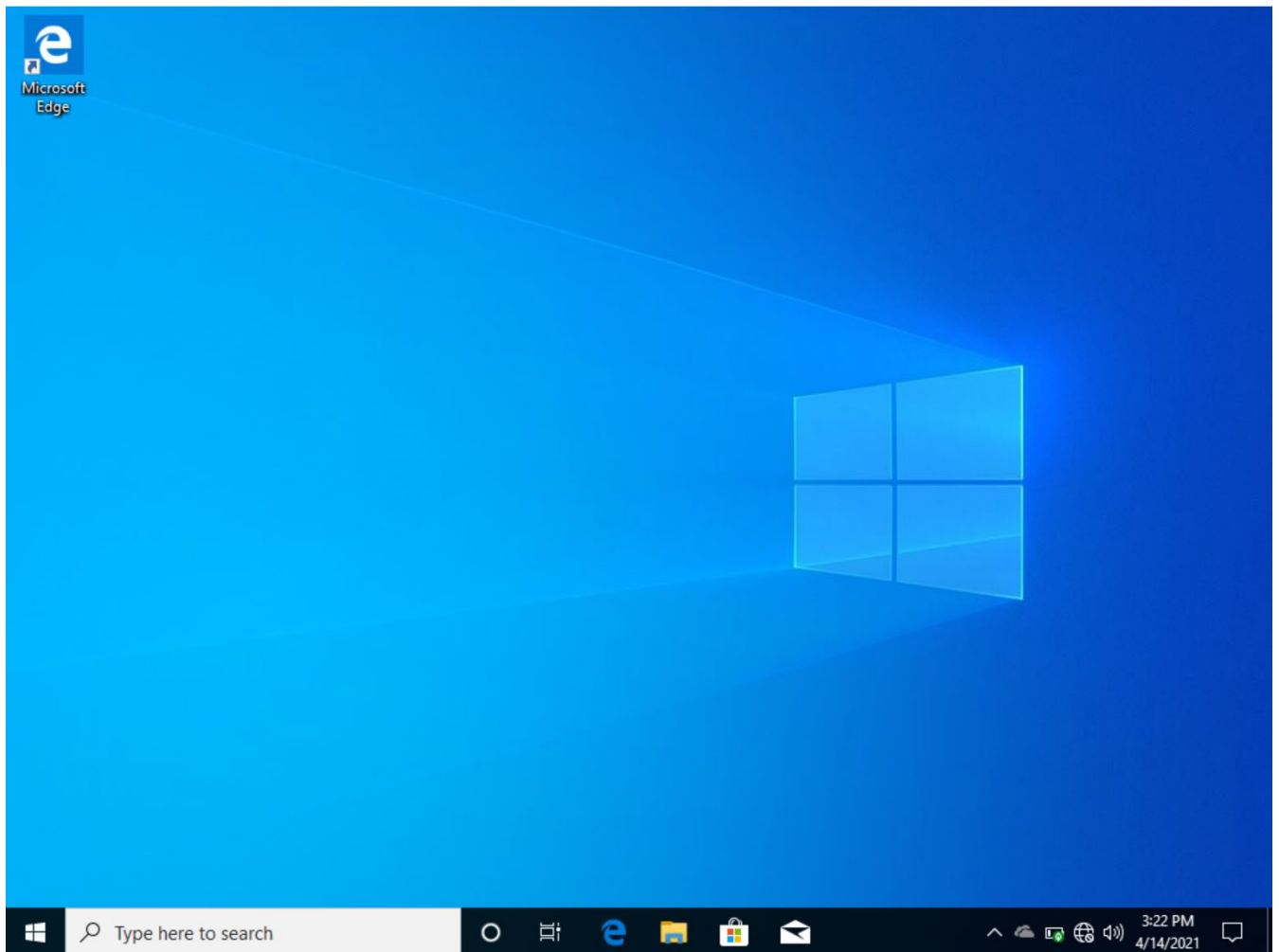
Note: Because Salesperson1 was not previously used, the new policies are automatically applied upon logon.

If the policies are not applied, run the following command in the CMD:

gpupdate /force

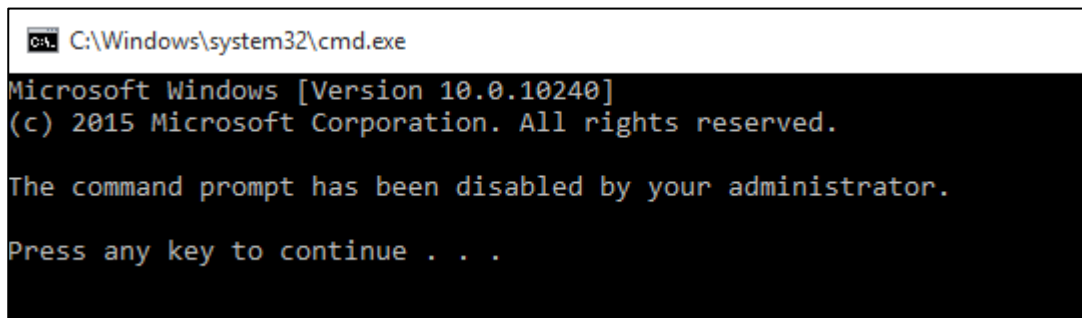
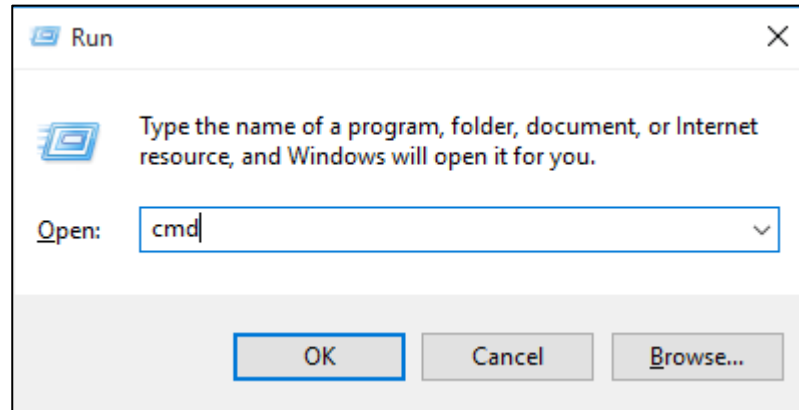


- 2 Note that the *Recycle Bin* icon does not appear on the desktop.

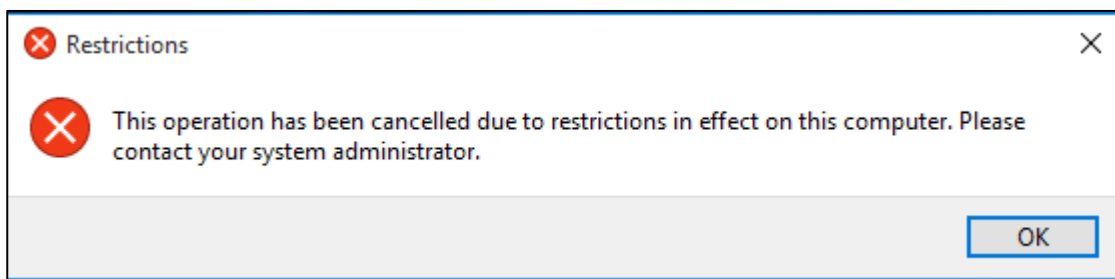
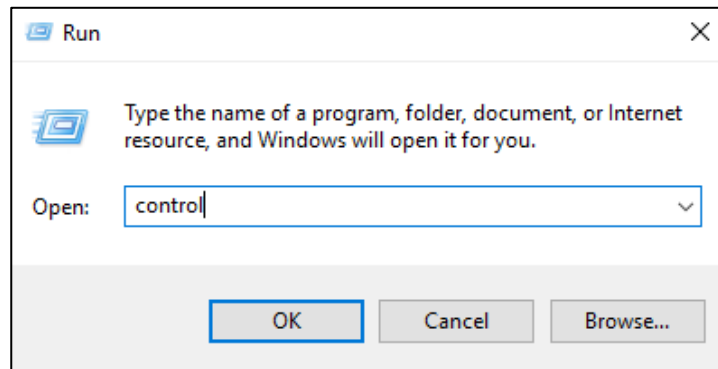


3 Try to open the CMD.

Hint: Press **WINKEY + R**, type **cmd**, and press **Enter**.



- 4 Try to access the Control Panel. An error message should appear.
Hint: Press **WINKEY + R**, type **control**, and press **Enter**.



- 5 Try to access the registry. An error message should appear.
Hint: Press **WINKEY + R**, type **regedit**, and press **Enter**.

