Implementing GPOs

Emily Kellogg

University of Advancing Technology

Implementing Group Policy Objects

## 21.1 - Creating a Group Policy Object Using the GPMC

First, I navigated to Group Policy Management, found in the Tools section of the Server Manager. Next, I expanded my domain name, right-clicked Group Policy Object, and clicked New.

Graphical user interface, text, application

Description automatically generated

Then, I renamed the GPO to Warning Box, clicked OK, and made some changes to the new GPO.

Graphical user interface, application

Description automatically generated

The first change was creating a message for users who log on. This is the file path I followed to access the setting.

Text

Description automatically generated

Here is the message I created after checking the Define this policy… box:

Graphical user interface, text, application, email

Description automatically generated

After writing the message, I clicked Apply, then OK to enable the setting.

The second change I made was another GPO. This GPO hides and disables all items on the desktop. Here are the settings for the second GPO:

The name:

Graphical user interface, application

Description automatically generated

Graphical user interface, application

Description automatically generated

The setting I applied, “Hide and disable all items on the desktop”:

This setting was found under the User Configuration file path.

Graphical user interface, text, application

Description automatically generated

A picture containing graphical user interface

Description automatically generated

Graphical user interface, application

Description automatically generated

### 21.2 – Linking Existing GPOs to Active Directory

First, I opened Group Policy Management. Then, I right clicked on my domain and clicked “Link an Existing GPO”.

Graphical user interface, text, application

Description automatically generated

I chose to link the Unlinked Test GPO to my domain.

**Graphical user interface, text, application

Description automatically generated**

Here is the newly linked Unlinked Test GPO.

Table

Description automatically generated with low confidence

#### 21.3 – Filtering Group Policy Using Security Groups

This portion of the lab takes place in the Active Directory Users and Computers tool.

First, I created a new OU called Group Policy Test.

Graphical user interface, table

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Next, I added two groups to the OU called PolicyEnabled and PolicyDisabled.

Graphical user interface, application

Description automatically generated

Graphical user interface, text, application

Description automatically generatedGraphical user interface, text, application

Description automatically generated

After that, I opened GPMC and linked Unlinked Test GPO to the Group Policy Test OU.

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, Word

Description automatically generated

Above Unlinked Test GPO was a button labeled Delegation. I clicked it. Then I clicked Advanced and added the PolicyEnabled and PolicyDisabled objects.

Graphical user interface, application

Description automatically generated

Graphical user interface, text, application, email

Description automatically generatedGraphical user interface, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Here are the permissions I gave to PolicyEnabled and PolicyDisabled:

Graphical user interface

Description automatically generatedGraphical user interface

Description automatically generated

##### **21.4 – Delegating Administrative Control of Group Policy**

First, I created a new user named Policy Admin in Group Policy Test via Active Directory Users and Computers.

Graphical user interface, application

Description automatically generated

Gave it a name and password:

Graphical user interface, text, application

Description automatically generatedGraphical user interface, text, application, email

Description automatically generated

Password: AsZ6854#fG1!

Graphical user interface, text, application, email

Description automatically generated

Here is the added user:

Graphical user interface, text, application

Description automatically generated

Next, I added the Policy Admin to the Group Policy Test OU via GPMC.

Graphical user interface, text, application

Description automatically generated

I also gave Policy Admin full permissions:

A picture containing text

Description automatically generated

Here is Policy Admin in the OU:

Graphical user interface, text, application, chat or text message

Description automatically generated

##### **21.5 – Configuring Automatic Certificate Enrollment in Group Policy**

First, I re-opened the Group Policy Management Console. Then, I right clicked my domain and created a GPO that linked to my domain.

Graphical user interface, text, application, email

Description automatically generated

I named the GPO “Test CA” and looked at some settings.

Graphical user interface, application

Description automatically generated

Graphical user interface, application

Description automatically generated

Here is the path I followed to get to the Certificate Services Client.

Graphical user interface, text, application

Description automatically generated

Here are the properties. I am already familiar with these from auto-enrolling before. Nothing else needs to be done here.

Graphical user interface, text, application

Description automatically generated

##### **21.6 – Configuring Folder Redirection in Group Policy**

For this exercise, I edited Test CA settings in the GPMC.

This is the file path for the settings:

Application

Description automatically generated with low confidence

I chose to edit Documents settings.

Graphical user interface, application

Description automatically generated

This is what I changed:

Graphical user interface, text, application, email

Description automatically generated

This is what I left the same:

Graphical user interface, text, application, email

Description automatically generated

##### **21.7 – Creating a Software Deployment Share**

I created a new folder called Software, and a folder within Software called Office 2016.

Graphical user interface, application

Description automatically generated

Software folder:

Graphical user interface, application, Word

Description automatically generated

Office 2016 (within Software)

Graphical user interface, text, application, email

Description automatically generated

After creating these folders, I added 7 Zip’s .msi file to the Office 2016 folder. Then, I shared the folder with Everyone on my network.

Graphical user interface, application

Description automatically generated

Graphical user interface, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Timeline

Description automatically generated

##### **21.8 – Publishing and Assigning Applications Using Group Policy**

First, I created a new OU in my domain called Software.

Graphical user interface

Description automatically generated with medium confidence

Graphical user interface, text, application, email

Description automatically generated

Second, a user named Jane User within the Software OU.

Graphical user interface, application

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Password: P@ssw0Rd!

Here is the new user within the Software OU:

Graphical user interface, text, application, email

Description automatically generated

Next, I opened GPMC and created a GPO that linked in the Software OU. It’s called Software Deployment.

Graphical user interface

Description automatically generated with medium confidence

Graphical user interface, application, Word

Description automatically generated

After creation, I uploaded a file through Software Deployment.

**Computer Configuration Software Deployment**

Here is the path I followed. I then right clicked settings and clicked Package.

Table

Description automatically generated with medium confidence

Here is the file I chose to deploy.

Graphical user interface, application, Word

Description automatically generated

Settings for package deployment:

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Here is the deployed 7Zip for Computer Configuration.

Graphical user interface, application

Description automatically generated with medium confidence

**User Configuration Software Deployment**

I completed the same steps as “Computer Configuration Software Deployment” for User Configuration and deployed the 7 Zip there as well.

Graphical user interface, application

Description automatically generated

Here is the uploaded 7 Zip for User Configuration:

Graphical user interface, application

Description automatically generated

##### **21.9 – Applying Software Updates**

Final exercise. In this one, I used GPMC again and accessed the Software installation object from the previous exercise. This time, I viewed the settings for the 7 Zip I uploaded.

Graphical user interface, table

Description automatically generated

Graphical user interface, text, application

Description automatically generated

These are the current settings. I will not edit them unless I need to.

Graphical user interface, text, application, email

Description automatically generated

##### **Extras**

**Adding GPO Snap-in**

Graphical user interface

Description automatically generated with medium confidence

Graphical user interface, text, application

Description automatically generated

I added the GPO for the Local Computer (Strelizia)

Waterfall chart

Description automatically generated

**Downloading 7 Zip to Server**

I downloaded 7 Zip for exercises 7-9 since they needed a .msi file. I did so by downloading it from the 7 Zip website.

Graphical user interface, application

Description automatically generated

Here is 7 Zip in my Office 2016 folder.

**Text

Description automatically generated**

References

7-Zip. (2022). *Download*. <https://www.7-zip.org/download.html>

Panek, W. (2018). Implementing GPOs. In *MCSA Windows Server 2016 complete study guide: Exam 70-740, exam 70-741, exam 70-742, and exam 70-743* (pp. 1177-1213). John Wiley & Sons. <https://uatedu-my.sharepoint.com/personal/sfranklin_uat_edu/_layouts/15/onedrive.aspx?id=%2Fpersonal%2Fsfranklin%5Fuat%5Fedu%2FDocuments%2F2020%20Items%2FUAT%20Resources%2FFall%2FBooks%2FMCSA%2DWindows%2DServer%2D2016%2DComplete%2DStudy%2DGuide%2D2nd%2DEdition%2DB07B4NG35Z%2Epdf&parent=%2Fpersonal%2Fsfranklin%5Fuat%5Fedu%2FDocuments%2F2020%20Items%2FUAT%20Resources%2FFall%2FBooks&ga=1>