Lab 21

Managing Group Policy Objects

This lab contains the following exercises and activities:

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| Exercise 21.1 | Backing Up and Restoring GPOs |
| Exercise 21.2 | Importing and Copying GPOs |
| Exercise 21.3 | Resetting Default GPOs |
| Exercise 21.4 | Delegating Group Policy Management |
| Lab Challenge | Using a Migration Table |

BEFORE YOU BEGIN

The lab environment consists of student workstations connected to a local area network, along with a server that functions as the domain controller for a domain called *contoso.com*. The computers required for this lab are listed in Table 21-1.

Table 21-1

Computers Required for Lab 21

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| Computer | Operating System | Computer Name |
| Server (VM 1) | Windows Server 2012 | RWDC01 |

In addition to the computers, you also require the software listed in Table 21-2 to complete Lab 21.

Table 21-2

Software Required for Lab 21

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| Software | Location |
| Lab 21 student worksheet | Lab21\_worksheet.rtf (provided by instructor) |

Working with Lab Worksheets

Each lab in this manual requires that you answer questions, take screen shots, and perform other activities that you will document in a worksheet named for the lab, such as Lab21\_worksheet.rtf. You will find these worksheets on the book companion site. It is recommended that you use a USB flash drive to store your worksheets, so you can submit them to your instructor for review. As you perform the exercises in each lab, open the appropriate worksheet file using WordPad, fill in the required information, and save the file to your flash drive.

After completing this lab, you will be able to:

* Back up and restore GPOs
* Import and copy GPOs
* Reset the Default GPOs
* Delegate management of group policies
* Use a migration table

Estimated lab time: 60 minutes

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| Exercise 21.1 | Backing Up and Restoring a GPO |
| Overview | In this exercise, you back up several GPOs and then restore a single backed-up GPO. |
| Completion time | 10 minutes |

**Mindset Question: By now, you probably figured out that GPOs are powerful and can be a valuable tool for any organization. What can you do to make sure that you can roll back to an earlier GPO without restoring the entire server?**

**1.** Log in to RWDC01 as the **Contoso\Administrator** user account. The Server Manager console opens.

**2.** On Server Manager, click Tools > Group Policy Management. The Group Policy Management console opens.

**3.** Navigate to and click the Group Policy Objects container.

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| Question 1 | Before you make any major changes to a group policy, particularly the Default Domain Policy and Default Domain Controller Policy, what should you consider? |

**4.** To back up all GPOs, right-click the Group Policy Objects container and then click Back Up All. The Back Up Group Policy Object dialog box opens.

**5.** In the Location Text Box, type **\\RWDC01\BAK**.In the Description text box, type **GPO Backup <Today’s Date>**. Click Back Up.

**6.** When the backup is complete, take a screen shot of the Backup dialog box by pressing Alt+Prt Scr and then paste it into your Lab21\_worksheet file in the page provided by pressing Ctrl+V.

**7.** When the backup is complete, click OK.

**8.** Expand Group Policy Objects.

**9.** Right-click Audit Policy and click Back Up. In the Description, type **Audit Policy Backup <Today’s Date>**. Click Back Up. When the backup is complete, click OK.

**10.** To restore a GPO, right-click the Audit Policy GPO and click Restore from Backup.

**11.** When the Restore Group Policy Object Wizard opens, click Next.

**12.** On the Backup location page, click Next.

**13.** Choose the first Audit Policy backup and click Next.

**14.** When the wizard’s Completing page appears, take a screen shot of the Restore Group Policy Object Wizard dialog box by pressing Alt+Prt Scr and then paste it into your Lab21\_worksheet file in the page provided by pressing Ctrl+V.

**15.** Click the Finish button.

**16.** When the restore is complete, click OK.

**17.** Keep the Group Policy Management console open for the next exercise.

End of exercise. You can leave the windows open for the next exercise.

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| Exercise 21.2 | | Importing and Copying GPOs |
| Overview | If you want to create a GPO that is similar to another GPO that you already have, you can either import the settings to the new GPO or copy the GPO. Afterward, you can then modify the new policy and deploy as necessary. | |
| Completion time | 15 minutes | |

**1.** On RWDC01, using Group Policy Management, navigate to and click **the Group Policy Objects** container.

**2.** Click GPO2. Then click the Settings tab to verify the current settings.

**3.** If an Internet Explorer message box opens, click Add on the Internet Explorer message box. Then click Add in Trusted sites dialog box, and click Close.

**4.** Right-click GPO2 and click Import Settings.

**5.** When the Welcome screen opens, click Next.

**6.** On the Backup GPO page, click Next.

**7.** On the Backup location page, click Next.

**8.** Click GPO7 and click Next.

**9.** On the Scanning Backup page, click Next.

**10.** On the Migrating References page, with the *Copying them identically from the source* selected, click Next.

**11.** When the wizard is complete, click Finish.

**12.** When the import is complete, answer the following question, and click OK.

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| Question 2 | What is the only item that did not succeed? |

**13.** To copy a GPO7, right-click GPO7 and click Copy.

**14.** Right-click Group Policy Objects container and click Paste.

**15.** When the Copy GPO dialog box appears, click *Use the default permissions for new GPOs*. Click OK.

**16.** When the copy is complete, click OK.

**17.** Right-click the Copy of GPO7 and click Rename. Type **GPO8** and press the Enterkey.

**18.** Lastly, instead of always creating a new GPO, you can also link a container to a current GPO. For example, right-click Service Accounts OU and click Link an Existing GPO.

**19.** When the Select GPO dialog box opens, click GPO7 and click OK.

**20.** Click GPO7in the left pane. Click the Scope tab in right pane.

**21.** Take a screen shot of the Group Policy Management window by pressing Alt+Prt Scr and then paste it into your Lab21\_worksheet file in the page provided by pressing Ctrl+V.

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| Question 3 | What are the two OUs that GPO7 is linked to? |

**22.** Close the Group Policy Management console.

End of exercise. You can leave the windows open for the next exercise.

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| Exercise 21.3 | Resetting Default GPOs |
| Overview | Probably the two most important GPOs are the default GPOs that come with Windows Server 2012. Therefore, during this exercise, you reset those GPOs. |
| Completion time | 5 minutes |

**Mindset Question: Which GPO has the default account policies settings including password policy settings and which GPO has the default User Rights Assignments?**

**1.** On RWDC01, right-click the Start menu and select Command Prompt (Admin).

**2.** At the prompt, execute the DcGPOFix command.

**3.** When it warns that you are about to restore the Default Domain Policy and Default Domain Controller Policy, type **Y** for Yes and press the Enter key.

**4.** When it says that it will replace all User Rights Assignments, type **Y** for Yes and press the Enter key.

**5.** Close the Administrator: Command prompt window.

End of exercise. You can leave the windows open for the next exercise.

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| Exercise 21.4 | Delegating Group Policy Management |
| Overview | During this exercise, you delegate permissions so that other users can either manage GPOs or create new GPOs. |
| Completion time | 10 minutes |

**Mindset Question: Why should you limit the ability to manage GPOs to a small group within an organization?**

**1.** On RWDC01, with Server Manager, click Tools > Group Policy Management. The Group Policy Management console opens.

**2.** Navigate to and click the Group Policy Objects container.

**3.** Click the Delegation tab.

**4.** To specify who can create GPOs, click Add. When the Select User, Computer, or Group dialog box opens, type **John Smith** and click OK.

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| Question 4 | A user creates a GPO. What do you need to do for that user to manage his or her GPO that he or she created? |

**5.** To specify who can manage an individual GPO, for example, GPO7, click GPO7. Then click the Delegation tab.

**6.** To add a user or group, click Add. When the Select User, Computer, or Group dialog box opens, type **John Smith** in the Enter the object name to select text box and click OK.

**7.** When the Add Group or User dialog box opens, set permissions to Edit settings, delete, and modify security and click OK.

**8.** Close the Group Policy Management console.

Lab REview Questions

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| **Completion time** | **5 minutes** |

**1.** In Exercise 21.1, what tool is used to back up GPOs?

**2.** In Exercise 21.2, how many containers can a GPO be assigned to?

**3.** In Exercise 21.3, what command did you use to reset the default GPOs?

**4.** In Exercise 21.4, what tool is used to manage permissions of a GPO

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| Lab Challenge | Using a Migration Table |
| Overview | To complete this challenge, you must use a Migration Table with a GPO with the following scenerio. |
| Completion time | 15 minutes |

For your organization, you have several domains. The primary domain has most of the users and network resources. You also have a smaller test domain. You have a GPO that you have created and successfully tested on the test domain. You want to copy the GPO to the production GPO. What steps do you need to perform to use the GPO?

Write out the steps you performed to complete the challenge.

End of lab. You can log off or start a different lab. If you want to restart this lab, you’ll need to click the End Lab button in order for the lab to be reset.