## Lesson 21: Managing Group Policy Objects

MOAC 70-411: Administering Windows Server 2012



WILEY

## Overview

- Exam Objective 6.3: Manage Group Policy Objects (GPOs)
- Managing Group Policy Objects

## Managing Group Policy Objects

Lesson 21: Managing Group Policy Objects

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## Group Policy Object (GPO) Components

GPOs consist of two components:

- Group Policy Container (GPC)
- Group Policy Template (GPT)

## Backing Up and Restoring GPOs

- Back up all GPOs or individual GPOs using the Group Policy Management Console.
- Every time a backup is performed, a new backup version of the GPO is created.

### Back Up GPOs

2	Gro	up Policy Mana	agement			>
File Action View Window Help						- 8
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🐇 Group Policy Management	Group Policy Objects in	contoso.com				
A Forest: contoso.com	Contents Delegation					
🔺 📑 Domains	Name A	GPO Status	WMI Filter	Modified	Owner	
⊿ 🏥 contoso.com	In ame	Enabled	None	8/19/2012 9:01:		
📓 Default Domain Policy 🔏 GPO1	Default Domain Policy	Enabled	None	10/27/2012 5:1	Domain Admi	
GPO2	🖉 GP01	Enabled	None	10/27/2012 4:5		
DirectAccessClients	🗐 GP02	Enabled	None	10/13/2012 6:5	Domain Admi	
Domain Controllers	I GPOSales1	Enabled	None	10/13/2012 6:5	Domain Admi	
Sales	GPOSales2	Enabled	None	10/13/2012 7:2		
⊿ 📑 Group Policy Objects	Site1GP0	Enabled Enabled	None None	8/16/2012 7:11: 10/13/2012 7:4		
📑 Default Domain Controlle	e			× //2012 2:0		
🧾 Default Domain Policy	Back	Up Group Poli	cy Object	/2012 7:0		
	Enter the name of the folde this Group Policy Object (G folder.			ons or	Domain Admi	
I GPOSales2 I New Group Policy Object I Site1GPO	t Note: Settings that are extr policies, are independent of					
WESTGP01	To prevent tampering of ba only authorized administrat			so that		
WindowsUpdates ⊳ 🕞 WMI Filters	Location:					
Image: Starter GPOs				~		
D ites						
👸 Group Policy Modeling			Brow	/se		
Group Policy Results	Description:					
			Back Up Car	and		
			back op	icer		
III >						
	111					

Opening the Back Up Group Policy Object dialog box

#### Restore a GPO

E	Restore	e Group Policy Obj	ject Wizard	x
So	<b>urce GPO</b> Select the GPO which you v	want to restore.		
	Backed up GPOs:			
	Name	Time Stamp	Description	
	🗐 GPOSales1	10/27/2012 10:5	52:51	
	٢	III	View Settings	>
		< Back Next >	Cancel	Help

#### Restoring a GPO

### Manage Backups

Backup location: C:\Users\Administrator.WIN2012SRV.000\Desktop\data\GP0				
Backed up GPOs:				
Domain Contoso.com Contoso.com Contoso.com Contoso.com Contoso.com	Name Default Doma Default Doma GP01 GP02	Time Stamp 10/27/2012 10:52:13 10/27/2012 10:52:45 10/27/2012 10:52:48 10/27/2012 10:52:50	Description	GP0 ID {6AC1786C-01 {3182F340-016 {FCCA7CE6-1C {3FA1647F-2F8
contoso.com contoso.com contoso.com contoso.com contoso.com contoso.com contoso.com	GPOSales1 GPOSales2 New Group P Site1GP0 WESTGP01 WESTGP02 WindowsUpd	10/27/2012 10:52:51 10/27/2012 10:52:52 10/27/2012 10:52:53 10/27/2012 10:52:55 10/27/2012 10:52:56 10/27/2012 10:52:58 10/27/2012 10:52:59		<pre>{F4A82943-C9 {150733B9-3B {9EA2FF88-4F {291B355A-18 {66BB83E6-E8 {AEF5524D-B6 {6773BF5E-87</pre>
_				
< III > Show only the latest version of each GPD				

#### Managing GPO Backups

#### **Import GPO Settings**

E	Import Settings Wizard	x				
	Migrating References Specify how you want to transfer references to security principals (groups, users, computers) and UNC paths.					
	The GPO backup contains references to security principals and/or UNC paths. Transfer these references by:					
	Oppying them identically from the source.					
	$\bigcirc$ Using this migration table to map them in the destination GPO:					
	✓	Browse				
	Use migration table exclusively. If any security principals or UNC paths in the GPO backup are not found in the migration table, do	Edit				
	not perform the import operation.	New				
	< Back Next > Cancel	Help				

Specifying how to transfer references to security principals

## Copy a GPO



Specifying how permissions are being copied or not

# Using a Migration Table

A migration table is a file that:

- Maps references to users, groups, computers, and UNC paths in the source GPO to new values in the destination GPO.
- Consists of one or more mapping entries.
   When you specify a migration table while performing an import or copy, each reference in the source GPO will be replaced with a target reference.

#### Use a Migration Table

	Source Name	Source Type	Destination Name
	Everyone	Free Text or SID	<same as="" source=""></same>
	Pre-Windows 2000 Compatible Access	Free Text or SID	<same as="" source=""></same>
	Authenticated Users	Free Text or SID	<same as="" source=""></same>
	LOCAL SERVICE	Free Text or SID	<same as="" source=""></same>
	IIS_IUSRS	Free Text or SID	<same as="" source=""></same>
	NETWORK SERVICE	Free Text or SID	<same as="" source=""></same>
	Administrators	Free Text or SID	<same as="" source=""></same>
	Backup Operators	Free Text or SID	<same as="" source=""></same>
	ENTERPRISE DOMAIN CONTROLLERS	Free Text or SID	<same as="" source=""></same>
•	group1	Free Text or SID	<same as="" source=""></same>
	Server Operators	Free Text or SID	<same as="" source=""></same>
	Account Operators	Free Text or SID	<same as="" source=""></same>
	Print Operators	Free Text or SID	<same as="" source=""></same>
_	Performance Log Users	Free Text or SID	<same as="" source=""></same>
*			

Populating the migration table

#### Use a Migration Table

ource Name	Source Type	Destination Name
veryone	Free Text or SID	<same as="" source=""></same>
Pre-Windows 2000 Compatible Access	Free Text or SID	<same as="" source=""></same>
IIS_IUSRS	Free Text or SID	<same as="" source=""></same>
Print Operators	Free Text or SID	<same as="" source=""></same>
LOCAL SERVICE	Free Text or SID	<same as="" source=""></same>
NETWORK SERVICE	Free Text or SID	<same as="" source=""></same>
Administrators	Free Text or SID	<same as="" source=""></same>
Backup Operators	Free Text or SID	<same as="" source=""></same>
Authenticated Users	Free Text or SID	<same as="" source=""></same>
ENTERPRISE DOMAIN CONTROLLERS	Free Text or SID	<same as="" source=""></same>
Server Operators	Free Text or SID	<same as="" source=""></same>
Account Operators	Free Text or SID	<same as="" source=""></same>
group1	Free Text or SID	group2
Performance Log Users	Free Text or SID	<same as="" source=""></same>

#### Specifying the changed destination value

# Resetting the Default GPOs

- The **DCGPOFix.exe** command can restore either or both the Default Domain Policy or the Default Domain Controllers Policy to their default settings.
- You must be a domain administrator to perform this task.

## Delegating Group Policy Management

- **Delegation** enables you to give non-domain administrators permissions to manage group policies.
- When you grant a person or group permissions to create GPOs, they also are granted permissions to manage the GPOs they created.
- To delegate GPO permissions, use the Group Policy Management Console.

## Specify Who Can Create GPOs

Ĺ	Group Policy Management	
File Action View Window Help		_ 8
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Group Policy Management	roup Policy Objects in contoso.com	
A Forest: contoso.com A Porest: contoso.com	Contents Delegation	
⊿ 🚔 contoso.com	The following groups and users can create GPOs in this domain.	
📓 Default Domain Policy	Groups and users:	
GPO1	Name ^	Inherited
GPO2	Domain Admins (CONTOSO\Domain Admins)	No
DirectAccessClients	Scoup Policy Creator Owners (CONTOSO/Group Policy Creator Owners)	No
Domain Controllers	SYSTEM	No
Sales		
⊿ Croup Policy Objects		
📑 Copy of GPO2		
Copy of GPO2		
Copy of GPOSales1		
🧾 Default Domain Contr		
🧾 Default Domain Policy		
☐ GPO1		
I GPO2		
GPOSales1		
GPUSalesz New Group Policy Ob		
Site1GPO		
WESTGPO1		
WESTGPO2		
🦉 WindowsUpdates		
WMI Filters	Add Remove Properties	
	rionoro riopolidos	

Managing GPO delegates using the Delegation tab

#### Specify Who Can Manage an Individual GPO

R	Add Group or User	x
	Group or user name: CONTOSO\Group1 Permissions:	<u>B</u> rowse
	Read V	Cancel

Assigning Permissions to a GPO

## **GPO Security Settings**

📓 GPO1 Secu	rity Settings	x				
Security						
Group or user names:						
& CREATOR OWNER						
& Authenticated Users						
	SYSTEM Domain Admins (CONTOSO\Domain Admins)					
Enterprise Admins (CONTOS)						
<		>				
	Add	Remove				
Permissions for Domain Admins	Allow	Deny				
Full control						
Read						
Write Create all child objects	<ul><li>✓</li></ul>					
Delete all child objects	<ul> <li>✓</li> </ul>					
For special permissions or advanced settings, Advanced						
Learn about access control and p	ermissions					
ОК	Cancel	Apply				

Managing security settings for a GPO

# Lesson Summary

- Although group policy settings are configured using GPOs, GPOs consist of two components: Group Policy Container (GPC) and Group Policy Template (GPT).
- The GPC is an Active Directory object stored in the Group Policy Objects container with the domain naming content of the directory.
- The settings are contained in the GPT, a collection of files stored in the SYSVOL (%SystemRoot%\SYSVOL\<Domain>\Policies\<GPOGUID>) of each domain controller.
- If you back up a domain controller including the System State, you will back up all GPOs. However, you can back up and restore GPOs using the Group Policy Management Console.

# Lesson Summary

- The Group Policy Management Console also has a Manage Backups feature. By using this feature, you can restore from backup, delete a backup, and view settings.
- You can import settings from a backed up GPO into an existing GPO. When you import a GPO, it imports only the GPO settings. It does not transfer the security links or security principals.
- You can copy a GPO by using the Group Policy Management Console in the same domain and across domains. Similar to copy and paste used with files, the copy option copies the existing GPO. When you paste it to the Group Policy Objects container, it is named copy of old\_name.

# Lesson Summary

- A migration table is a file that maps references to users, groups, computers, and UNC paths in the source GPO to new values in the destination GPO.
- The DCGPOFix.exe command can restore either or both the Default Domain Policy or the Default Domain Controllers Policy to their default settings.
- Delegation enables you to give non-domain administrators permissions to manage group policies.
- With users and groups, to give more granular control of who can manage, read, or is affected by a GPO, click the Advanced button from the Delegation tab, which opens the GPO Security Settings dialog box.

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