Lesson 16: Creating Group Policy Objects

MOAC 70-410: Installing and Configuring Windows Server 2012



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Overview

- Exam Objective 6.1: Create Group Policy Objects
- Introducing Group Policy
- Using the Group Policy Management Console
- Creating Multiple Local GPOs

Introducing Group Policy

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Introducing Group Policy

- Group Policy is a mechanism for controlling and deploying operating system settings to computers all over your network.
- Consists of user and computer settings for the various Microsoft Windows operating systems.
- Implemented during computer startup and shutdown and user logon and logoff.
- Configure one or more Group Policy objects (GPOs) and then use a process called linking to associate them with specific Active Directory Domain System (AD DS) objects.
- When you link a GPO to a container object, all of the objects in that container receive the settings you configured in the GPO.

Group Policy: User Benefits

- Users can access their files, even when network connectivity is intermittent by using folder redirection and offline files.
- Users can work with a consistent computing environment, regardless of which workstation or location they use to log on.
- User files redirected to a server location can be backed up regularly, saving users from data loss due to workstation failure.
- Applications that become damaged or need to be updated can be reinstalled or maintained automatically.

Group Policy: Administrative Benefits

- Administrators have control over centralized configuration of user settings, application installation, and desktop configuration.
- Problems due to missing application files and other minor application errors often can be alleviated by the automation of application repairs.
- Centralized administration of user files eliminates the need and cost of trying to recover files from a damaged drive.
- The need to manually make security changes is reduced by the rapid deployment of new settings through Group Policy.

Group Policy Objects (GPOs)

- **Group Policy objects (GPOs**) contain all the Group Policy settings that administrators can deploy to user and computer objects within a site, domain, or organizational unit.
- To deploy a GPO, an administrator must associate it with the container to which it is deployed (linking).
- Administrative tasks for Group Policy include:
 O Creating GPOs
 - Specifying where GPOs are stored
 - Managing the AD DS links

Types of GPOs

There are three types of GPOs:

- Local GPOs: On the local computer only
- Domain GPOs: Created in Active Directory

 Linked to sites, domains, or OUs
- Starter GPOs: Template GPO based on a standard collection of settings

Viewing the Group Policy Container

- The Group Policy container (GPC) directory object includes subcontainers that hold GPO policy information
- Two GPOCs, corresponding to the two default GPOs: Default Domain Policy and Default Domain Controller Policy
- Each GPC contains two subcontainers—one for machine (computer) configuration information and another for user configuration information

View the Group Policy Container

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Tree view in Active Directory Administrative Center

View the Group Policy Container

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Contents of the Policies folder in Active Directory Administrative Center

View the Group Policy Container

| Active Di | rectory Users and Computers | _ D X |
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Group Policy Containers in Active Directory Users and Computers

Viewing Group Policy Templates

- The **Group Policy Templates (GPT)** is a folder structure that is located in the shared SYSVOL folder on a domain controller.
- Contains the default settings for a new GPO.
- The path to the default GPT structure for a domain is: %systemroot%\SYSVOL\sysvol\<domain name>\Policies

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Configuring a Central Store

- A **Central Store** is a centralized copy of the Administrative Templates (ADMX files).
- Having these files centrally stored and accessible means that they don't have to be replicated to the SYSVOL volumes on the domain controllers.
- Prevents maintaining multiple copies of the same data.

Using the Group Policy Management Console

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Using the Group Policy Management Console

- The Group Policy Management Console is the Microsoft Management Console (MMC) snap-in that administrators use to create Group Policy objects and manage their deployment to Active Directory Domain Services objects.
- The Group Policy Management Editor is a separate snap-in that opens GPOs and enables you to modify their settings.

Using the Group Policy

| P | Add Roles and Features Wizard | _ D X |
|---|---|--|
| Select features | | DESTINATION SERVER ServerA.adatum.local |
| Before You Begin | Select one or more features to install on the selected server. | |
| Installation Type | Features | Description |
| Server Selection Server Roles Features Confirmation Results | NET Framework 3.5 Features NET Framework 4.5 Features (Installed) Background Intelligent Transfer Service (BITS) BitLocker Drive Encryption BitLocker Network Unlock BranchCache Client for NFS Data Center Bridging Enhanced Storage Failover Clustering Group Policy Management (Installed) Ink and Handwriting Services Internet Printing Client IP Address Management (IPAM) Server K | Group Policy Management is a scriptable Microsoft Management Console (MMC) snap-in, providing a single administrative tool for managing Group Policy across the enterprise. Group Policy Management is the standard tool for managing Group Policy. |
| | < Previous Next > | Install Cancel |

The Group Policy Management feature in the Add Roles and Features Wizard

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The Group Policy Management console

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Contents of the Group Policy Objects folder

| | New GPO | x |
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| Name: New Group Policy Object | | |
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The New GPO dialog box

| Select GPO | x |
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The Select GPO dialog box

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The Linked Group Policy Objects tab

Using Security Filtering

- Linking a GPO to a container causes all the users and computers in that container to receive the GPO settings, by default.
- Security filtering is a technique you use to modify the default permission assignments so that only certain users and computers receive the permissions for the GPO.

Using Security Filtering

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Security filtering in the Group Policy Management console

Group Policy Processing

- You can have local policies, site policies, domain policies, and OU policies within your domain structure.
- Windows systems receiving GPOs from multiple sources process them in the following order, typically referred to as LSDOU:
 - 1. Local policies
 - 2. Site policies
 - 3. Domain policies
 - 4. OU policies

Group Policy Processing

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The Group Policy Inheritance tab, showing OU and domain inheritance

Group Policy Processing

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The Group Policy Inheritance tab, showing two layers of OU inheritance, plus domain inheritance

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Processing Multiple GPOs

- You can link multiple GPOs to domains, sites, and OUs.
- Many administrators prefer to create individual GPOs for each system configuration task, rather than create one large GPO.
- When multiple GPOs linked to a single AD DS object, you can control the order in which systems apply the GPO settings by using the Linked Group Policy Objects tab in the Group Policy Management console.

Processing Multiple GPOs

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The Linked Group Policy Objects tab, with multiple GPOs linked to a single OU

GPO Settings Application

- Windows systems process Computer Configuration settings when the computer starts, along with the computer startup scripts.
- The system processes the User Configuration settings and user logon scripts when a user logs on.
- User logoff scripts and computer shutdown scripts run during the shutdown process.

Configuring Exceptions to GPO Processing

- The **Enforce** setting on an individual GPO link forces a particular GPO's settings to flow down through the AD DS hierarchy, without being blocked by any child OUs.
- The **Block Policy Inheritance** setting on a container object such as a site, domain, or OU blocks all policies from parent containers from flowing to this container.
- Loopback Processing is a Group Policy option that provides an alternative method of obtaining the ordered list of GPOs to be processed for the user. When set to Enabled, this setting has two options: merge and replace.

Exceptions to GPO Processing

| 9 | Configur | re user Group Policy loopback processing mode 📃 🗖 🗙 | |
|---|--------------------|---|--|
| Configure user G | roup Policy loopba | Previous Setting Next Setting | |
| Not Configured Enabled | Comment: | | |
| Disabled | Supported on: | At least Windows 2000 | |
| Options: | | Help: | |
| Mode: Replace | ~ | Help: This policy setting directs the system to apply the set of Group Policy objects for the computer to any user who logs on to a computer affected by this setting. It is intended for special-use computers, such as those in public places, laboratories, and classrooms, where you must modify the user setting based on the computer that is being used. By default, the user's Group Policy Objects determine which user settings apply. If this setting is enabled, then, when a user logs on to this computer, the computer's Group Policy Objects determine which set of Group Policy Objects applies. If you enable this setting, you can select one of the following modes from the Mode box: "Replace" indicates that the user settings defined in the computer's Group Policy Objects replace the user settings normally applied to the user. "Merge" indicates that the user settings defined in the computer's Group Policy Objects and the user settings normally | |
| | | OK Cancel Apply | |

The Configure User Group Policy Loopback Processing Mode policy

Managing Starter GPOs

- Starter GPOs are templates that you can use to create multiple GPOs with the same set of baseline Administrative Templates settings
- You create and edit starter GPOs just as you would any other Group Policy object.

Managing Starter GPOs

| Group Policy Starter GPO Editor | | | _ | | x |
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| New Starter GPO [ServerA.adatum.local] Sta Computer Configuration Computer Templates | Administrative Templates | | | | |
| ▷ Control Panel ▷ Network ○ Printers ▷ System ▷ Windows Components ○ All Settings ✓ User Configuration ✓ Administrative Templates ▷ Control Panel ▷ Desktop ▷ Network ○ Shared Folders ▷ System ▷ System | Select an item to view its description. Setting Control Panel Network Printers System Windows Components All Settings | | | | |
| All Settings | | < III | | | > |
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A starter GPO in the Group Policy Management Editor

Configuring Group Policy Settings

- Group Policy settings enable you to customize the configuration of a user's desktop, environment, and security settings.
- Settings are divided into two subcategories: Computer Configuration and User Configuration.
- Subcategories are referred to as Group Policy nodes.
- A node is a parent structure that holds all related settings specific to computer configurations and user configurations.

Configuring Group Policy Settings

Within the Computer Configuration and User Configuration nodes, the subnodes are as follows:

- Software Settings
- Windows Settings
- Administrative Templates

Policy Explanations

| Devices: Restrict CD-ROM access to locally logged ? × | | | | |
|---|--|--|--|--|
| Security Policy Setting Explain | | | | |
| | | | | |
| Devices: Restrict CD-ROM access to locally logged-on user only | | | | |
| This security setting determines whether a CD-ROM is accessible to both local and remote users simultaneously. | | | | |
| If this policy is enabled, it allows only the interactively logged-on user to access removable CD-ROM media. If this policy is enabled and no one is logged on interactively, the CD-ROM can be accessed over the network. | | | | |
| Default: This policy is not defined and CD-ROM access is not restricted to the locally logged-on user. | | | | |
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| ▼ | | | | |
| For more information about security policy and related Windows features, see the Microsoft website. | | | | |
| OK Cancel Apply | | | | |

Explanations of Group Policy settings

Policy States

- To work with Administrative Template settings, you must understand the three different states of each policy setting:
- Not Configured: No modification to the registry from its default state occurs as a result of the policy. Not Configured is the default setting for the majority of GPO settings. When a system processes a GPO with a Not Configured setting, the registry key affected by the setting is not modified or overwritten, no matter what its current value might be.
- **Enabled**: The policy function is explicitly activated in the registry, whatever its previous state.
- **Disabled**: The policy function is explicitly deactivated in the registry, whatever its previous state.

Searching Policies

| | Filter Options | × | |
|---|------------------------------|------------------------------|--|
| Select options below to enable and change or disable types of global filters that will be applied to the Administrative Templates nodes. | | | |
| Select the type of policy settings t | o display. | | |
| Managed: Yes v | Confi <u>a</u> ured: | Commen <u>t</u> ed: | |
| Enable Keyword Filters | | | |
| Eilter for word(s): | :y <u>S</u> etting Title | Any Text Comment | |
| Enable <u>R</u> equirements Filters | application filter(s); | | |
| Include settings that match an | y of the selected platforms. | Select All | |
| BITS 1.5 BITS 2.0 BITS 3.5 BITS 4.0 Internet Explorer 10 Internet Explorer 3 Internet Explorer 4 Internet Explorer 5 | | ▲ Glear All | |
| | | OK Cancel | |

The Filter Options dialog box

Creating Multiple Local GPOs

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Creating Multiple Local GPOs

- Computers that are members of an AD DS domain benefit from a great deal of flexibility when it comes to Group Policy configuration.
- Standalone (non-AD DS) systems can achieve some of that flexibility, as long as they are running at least Windows Vista or Windows Server 2008 R2. These operating systems enable administrators to create multiple local GPOs that provide different settings for users, based on their identities.

Creating Multiple Local GPOs

Windows systems supporting multiple local GPOs have three layers of Group Policy support:

- Local Group Policy: Consists of both Computer and User settings and applies to all system users, administrative or not. This is the only local GPO that includes computer settings, so to apply Computer Configuration policies, you must use this GPO.
- Administrators and Non-administrators Group Policy: Consists of two GPOs, one of which applies to members of the local Administrators group and one that applies to all users that are not members of the local Administrators group.
- User-specific Group Policy: Consists of GPOs that apply to specific local user accounts created on the computer. These GPOs can apply to individual users only, not to local groups.

Create Local GPOs

| Select Group Policy Object | | |
|---------------------------------|--|--|
| Welcome to the Group Policy Wiz | zard | |
| | Local Group Policy Objects are stored on the local computer. Use the Browse button to select one of the Group Policy Objects. Group Policy Object: Local Computer Browse Allow the focus of the Group Policy Snap-in to be changed when launching from the command line. This only applies if you save the console. | |
| | < <u>B</u> ack Finish Cancel | |

The Select Group Policy Object page

Create Local GPOs

| Browse for a Group Po | licy Object ? X |
|--|----------------------------|
| Computers Users | |
| Local Users and Groups compatible with Local Group | Policy: |
| Name | Group Policy Object Exists |
| See Administrator | No |
| Se ocox | No |
| Administrators | No |
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| | OK Cancel |
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The Users tab of the Browse for a Group Policy Object dialog box

Create Local GPOs

| | Console1 - [Console Root] | _ D X | | | |
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| Console Root | Name | Actions | | | |
| Local Computer\Administrators Poli | Local Computer\Administrator | Console Root 🔺 | | | |
| Software Settings | | More Actions 🕨 | | | |
| ⊿ 🧮 Windows Settings | | | | | |
| Scripts (Logon/Logoff) ≡ | | | | | |
| B Security Settings | | | | | |
| Policy-based QoS | | | | | |
| ⊿ Administrative Templates | | | | | |
| Control Panel | | | | | |
| Desktop | | | | | |
| Network | | | | | |
| Shared Folders | | | | | |
| Chart Monu and Tackbar | | | | | |
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A Group Policy Object Editor console

Lesson Summary

- Group Policy consists of user and computer settings that can be implemented during computer startup and user logon. These settings can be used to customize the user environment, to implement security guidelines, and to assist in simplifying user and desktop administration. Group Policies benefit users and administrators because they can be used to increase a company's return on investment and decrease the overall total cost of ownership for the network.
- In Active Directory Domain Services, Group Policies can be assigned to sites, domains, and OUs. By default, there is one local policy per computer. Local policy settings are overwritten by Active Directory policy settings.
- Group Policy content is stored in an Active Directory GPC and in a GPT. Whereas the GPC can be seen using the Advanced Features view in Active Directory Users and Computers, the GPT is a GUIDnamed folder located in the systemroot\sysvol\SYSVOL\domain_name\Policies folder.
- The Default Domain Policy and the Default Domain Controller Policy are created by default when AD DS is installed.

Lesson Summary

- The Group Policy Management Console is the tool used to create and modify Group Policy objects and their settings
- GPO nodes contain three subnodes, including Software Settings, Windows Settings, and Administrative Templates. Administrative templates are XML files with the .admx file extension.
- The order of Group Policy processing can be remembered using the acronym LSDOU: local policies are processed first, followed by site, domain, and finally, OU policies. This order is an important part of understanding how to implement Group Policies for an object.
- Group Policies applied to parent containers are inherited by all child containers and objects. Inheritance can be altered by using the Enforce, Block Policy Inheritance, or Loopback settings.

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