

Lesson 20: Configuring Group Policy Settings

MOAC 70-411: Administering
Windows Server 2012

Overview

- Exam Objective 6.2: Configure Group Policy Settings
- Configuring Group Policy Settings

Configuring Group Policy Settings

Lesson 20: Configuring Group Policy Settings

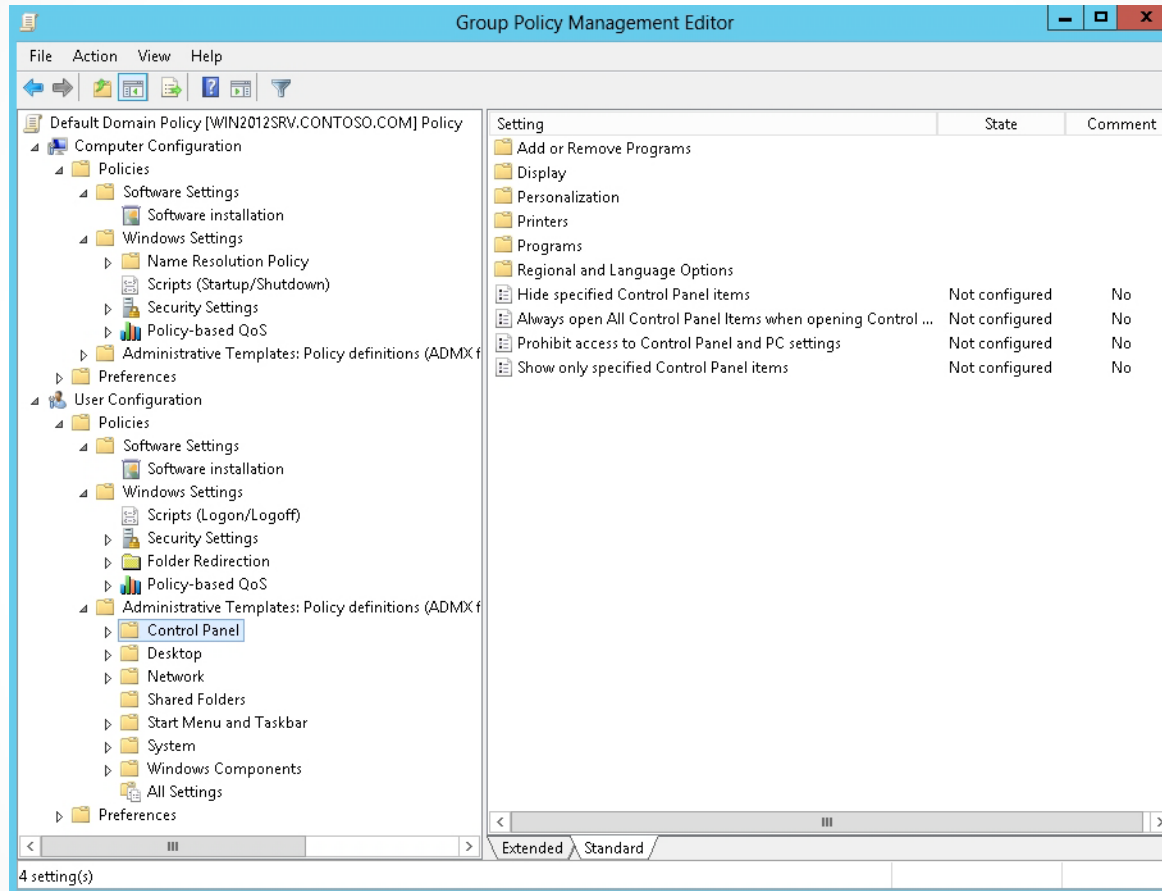
Group Policy Settings

- The **Computer Configuration** node contains settings that are applied to the computer regardless of who logs on to the computer. By default, computer settings are applied when the computer is started.
- The **User Configuration** node contains settings that are applied when the user logs on.

Group Policy Settings

- Group policy settings are refreshed every 90 minutes with a random delay of 30 minutes (giving a random range between 90 minutes and 120 minutes).
- On domain controllers, group policies get refreshed every 5 minutes.

GPO Node Structure



Viewing the Group Policy Object (GPO) node structure

Computer Configuration \ Policies Nodes



Software Settings

Windows Settings

Administrative Templates

Software Configuration \ Policies Nodes



Software Settings

Windows Settings

Administrative Templates

Software Installation Using Group Policies

- **Windows Installer:** A software component used for the installation, maintenance, and removal of software on Windows.
- **Microsoft Software Installation (MSI) file:** Contains installation information for software.
- **MSI Transform files:** Used to deploy customized MSI files.
- **MSI Patch files:** Used to apply service packs and hot fixes to installed software.

Assigning or Publishing a Package

To deploy software with group policies, take the following steps:

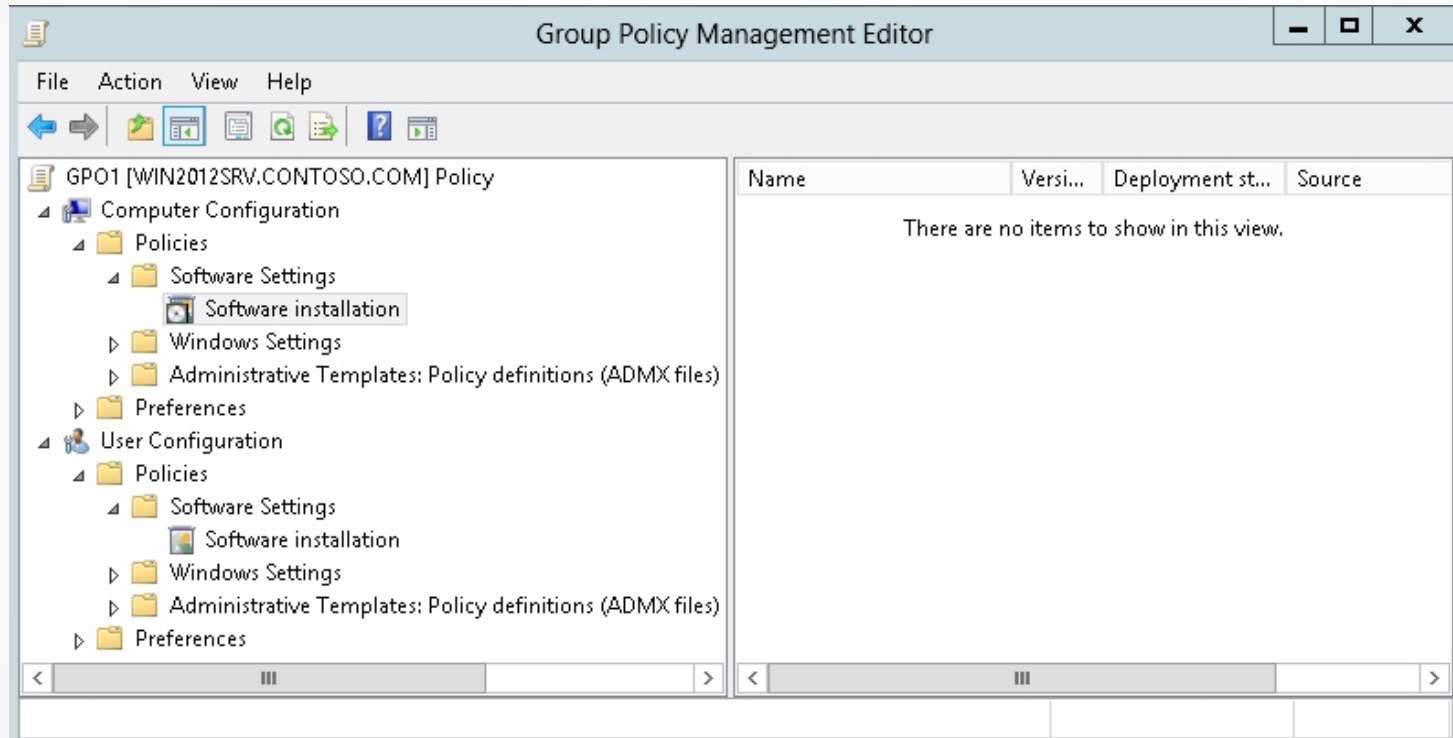
1. Create a distribution point on the publishing server.
2. Create a GPO to use to distribute the software package.
3. Assign or publish a package to a user or computer.

Assigning or Publishing a Package

When you install to a user or computer, you have the option to assign software or publish software with these options:

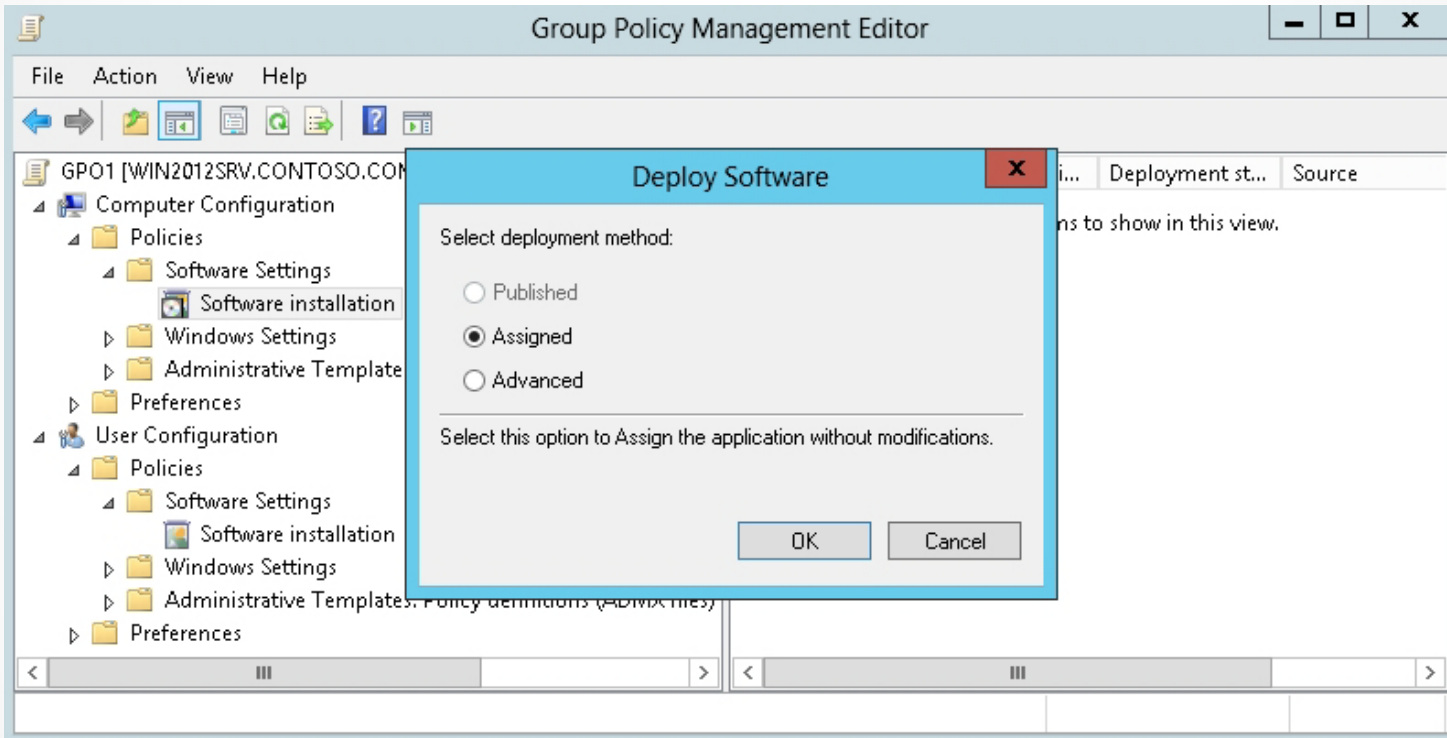
- Assign software to a user
- Assign software to a computer
- Publish software to a user

Create a New Software Installation Package



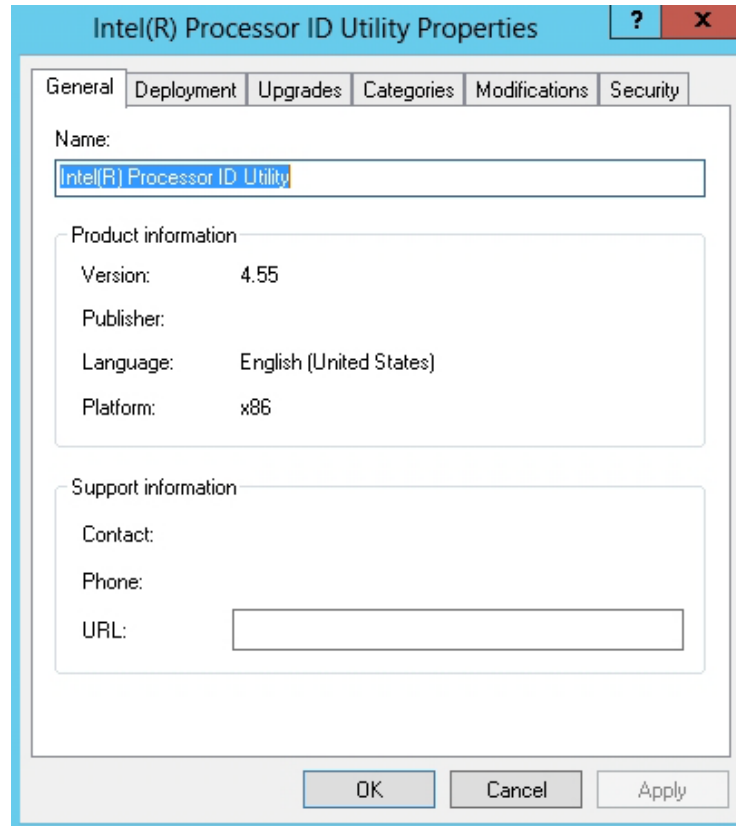
Opening the Software Installation node

Create a New Software Installation Package



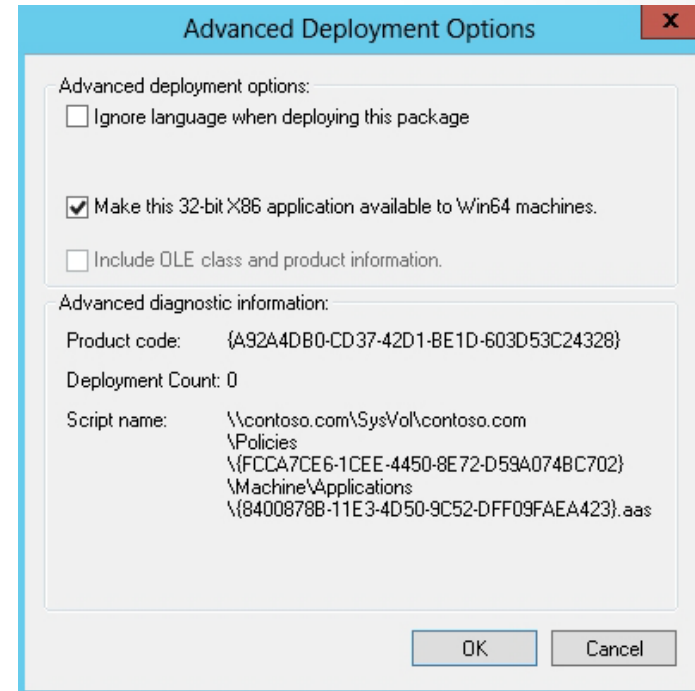
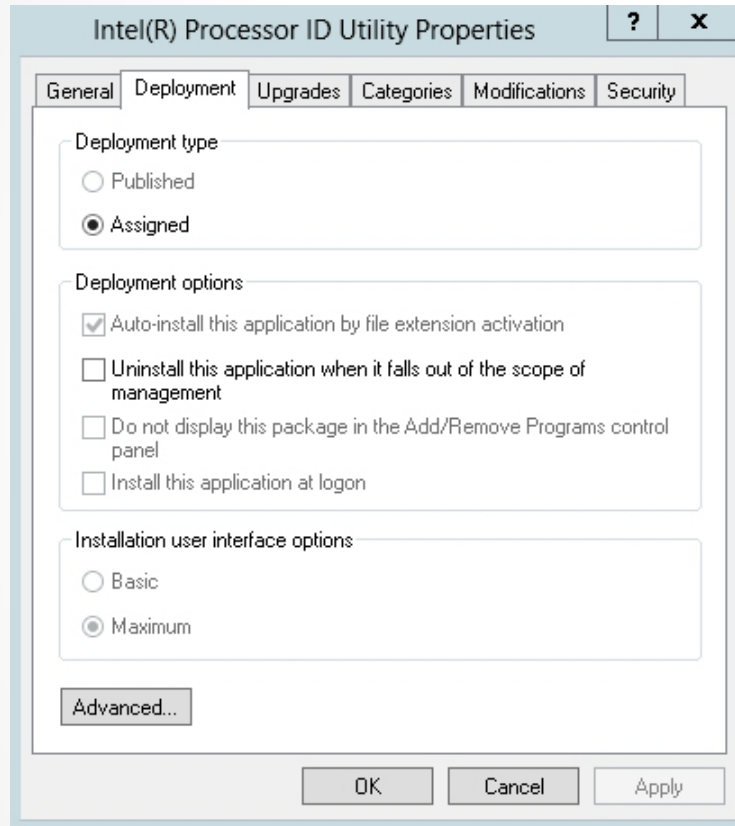
Selecting the deployment method

Create a New Software Installation Package



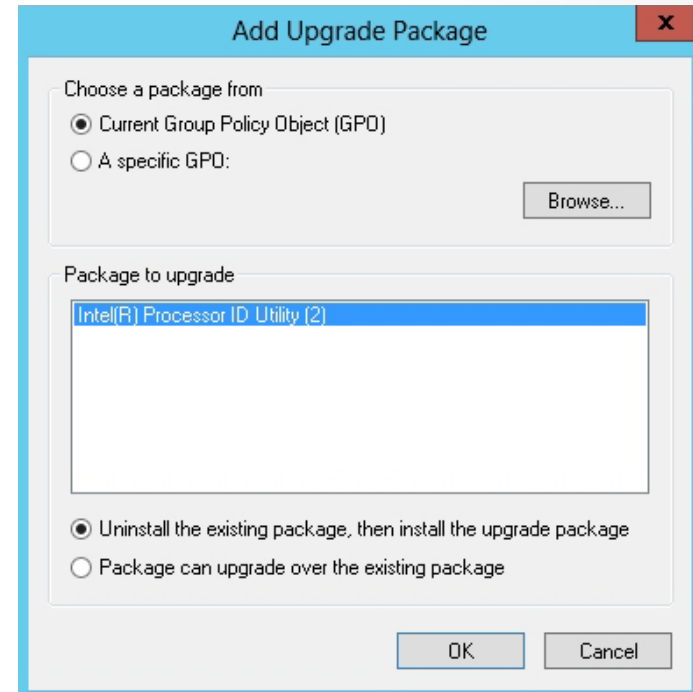
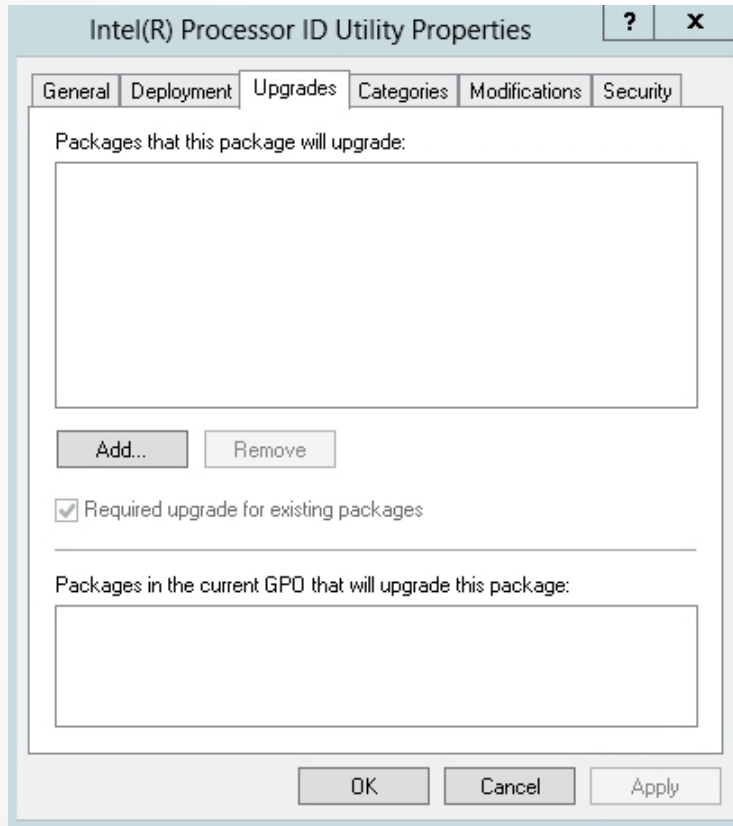
Opening the Properties dialog box
for a software package

Create a New Software Installation Package



Changing the deployment type and deployment options

Create a New Software Installation Package



Upgrading a software package

Uninstalling a Package

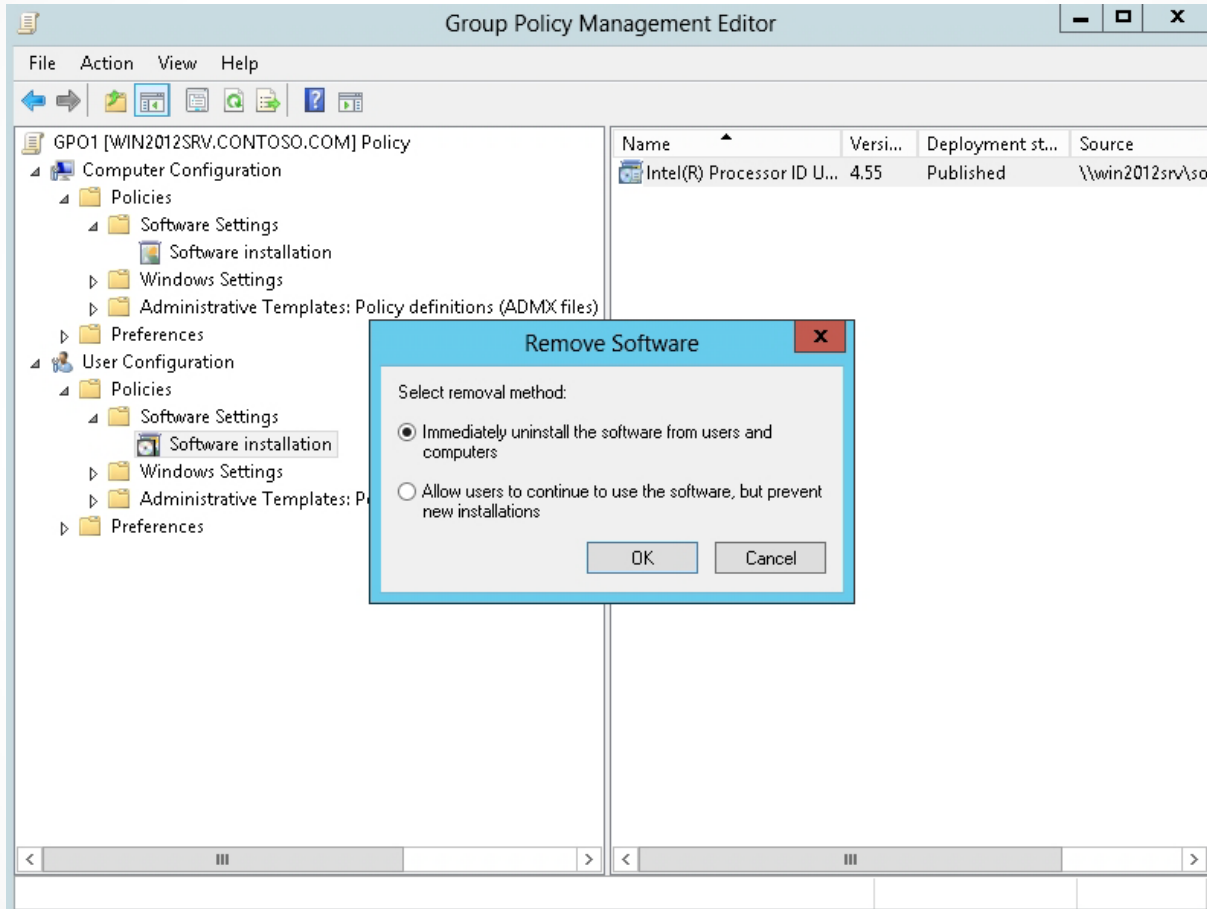
To remove an application:

1. Right-click the package.
2. Click *All Tasks*.
3. Click *Remove*.

When the Remove Software dialog box opens, choose one of these options:

- Immediately uninstall the software from users and computers
- Allow users to continue to use the software, but prevent new installations

Uninstalling a Package



Removing software

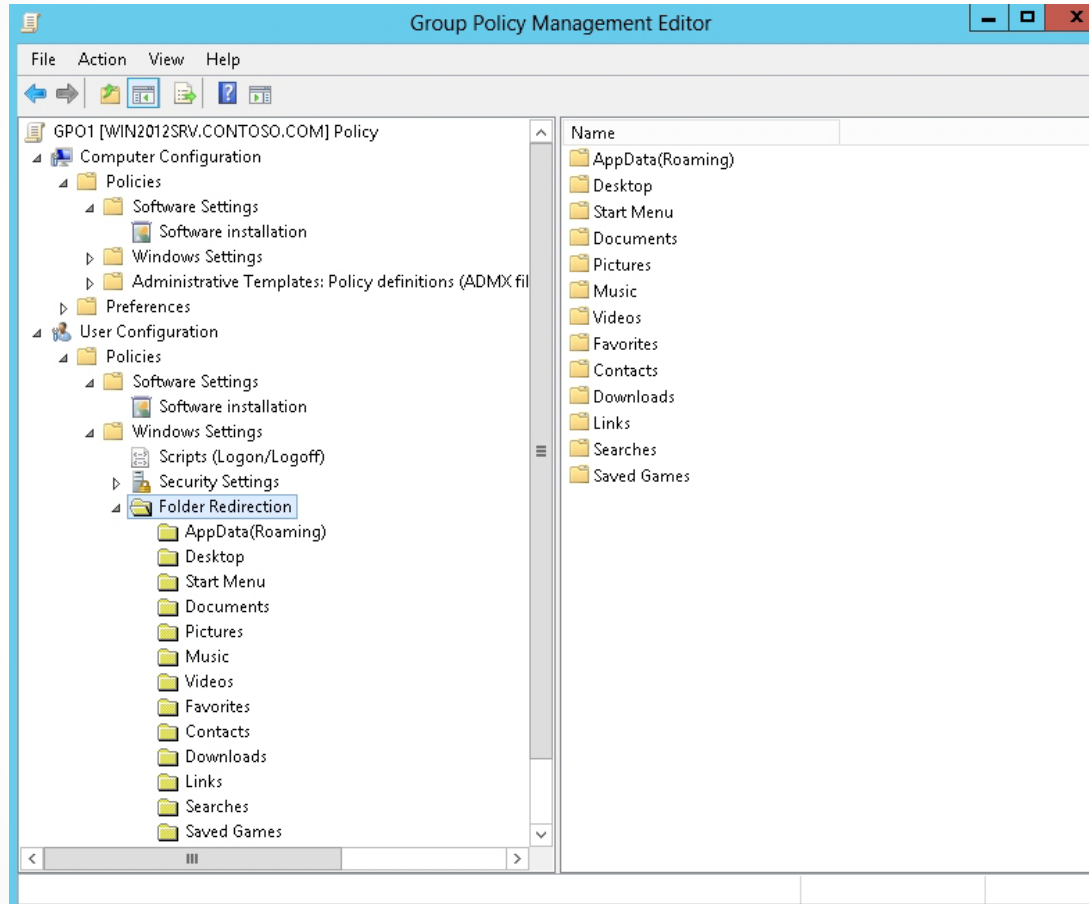
Using Folder Redirection

Use **Folder Redirection** to:

- Redirect the content of a certain folder to a network location or to another location on the user's local computer.
- Redirect the Desktop, Start Menu, Documents, Picture, Music, Videos, Favorites, Downloads, and other related folders.

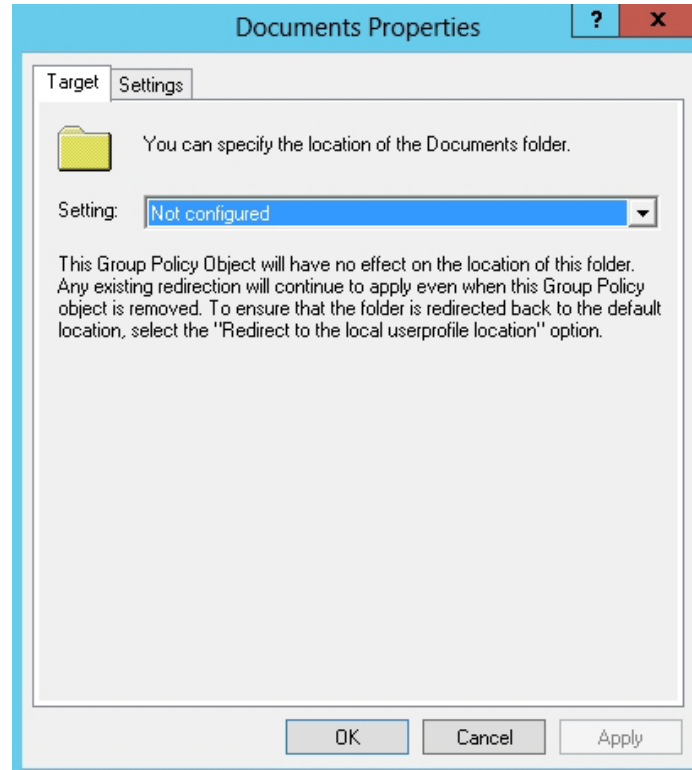
It is found under \User Configuration\Policies\Windows Settings.

Using Folder Redirection



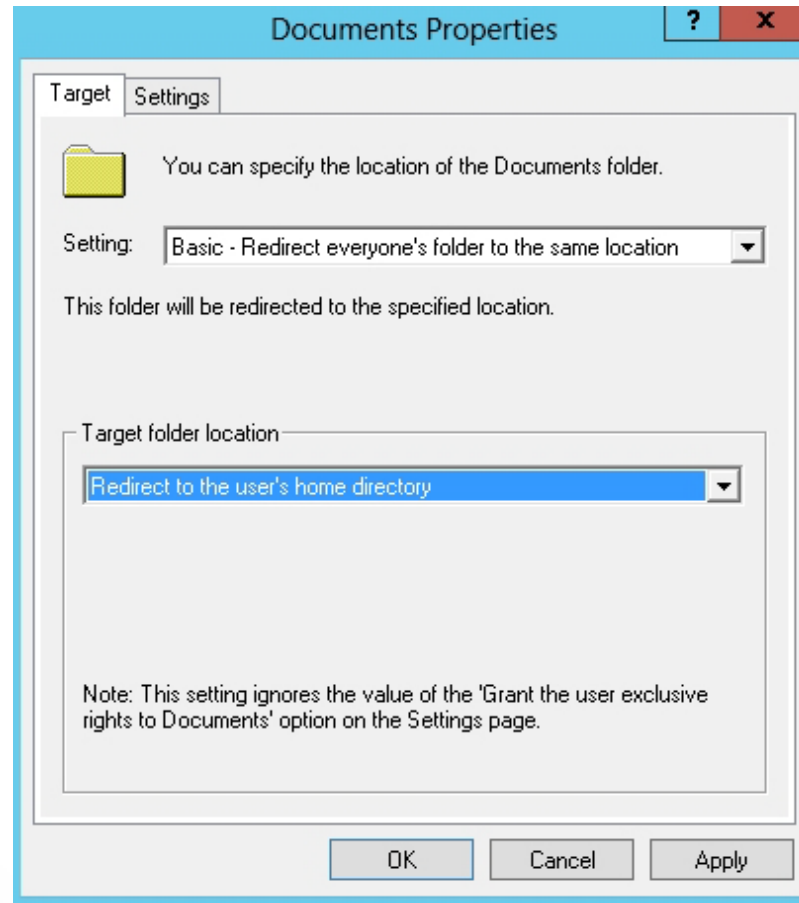
Viewing the Folder Redirection folders

Configure Folder Redirection



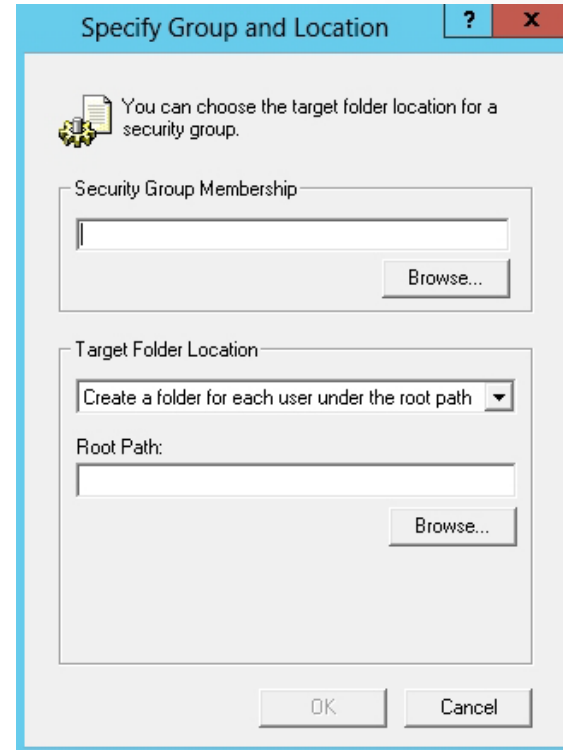
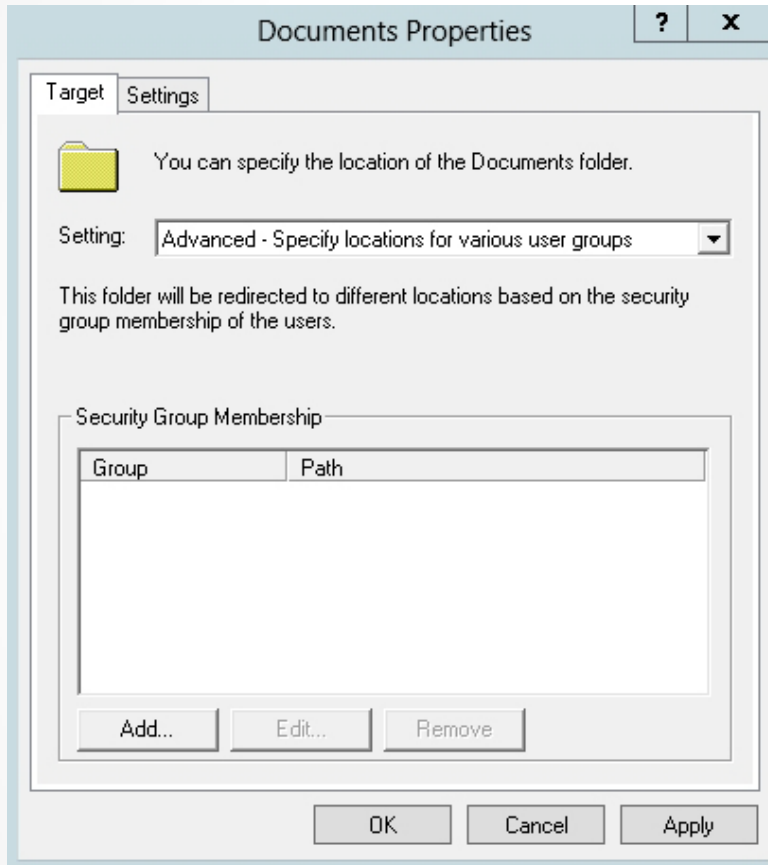
Configuring the Documents Properties

Configure Folder Redirection



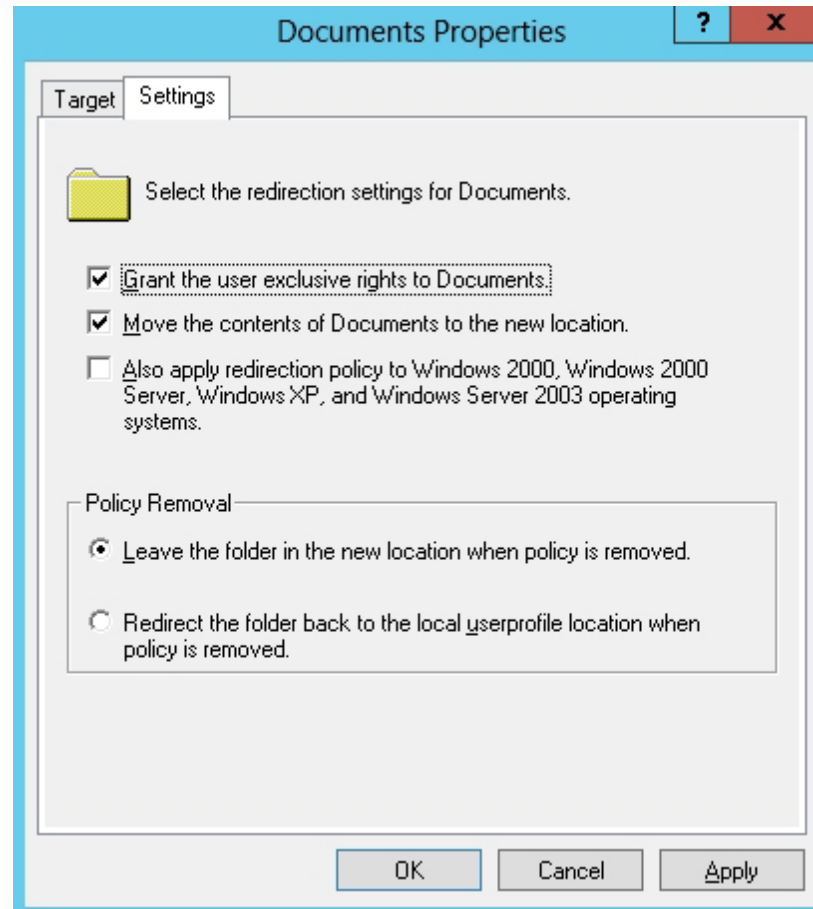
Redirecting to the user's home directory

Configure Folder Redirection



Specifying the Security Group Membership
when using Advanced mode

Configure Folder Redirection



Configuring settings when using Advanced mode

Configure Folder Redirection

The screenshot shows the Group Policy Management Editor window. The left pane displays a tree view of Group Policy settings, with 'Offline Files' selected under 'Administrative Templates: Policy definitions (ADMX files)' > 'Network' > 'Offline Files'. The right pane shows a list of 16 settings, all of which are currently 'Not configured'.

Setting	State	Comment
Specify administratively assigned Offline Files	Not configured	No
Non-default server disconnect actions	Not configured	No
Event logging level	Not configured	No
Action on server disconnect	Not configured	No
Prevent use of Offline Files folder	Not configured	No
Prohibit user configuration of Offline Files	Not configured	No
Remove "Make Available Offline" command	Not configured	No
Remove "Make Available Offline" for these files and folders	Not configured	No
Turn off reminder balloons	Not configured	No
Reminder balloon frequency	Not configured	No
Initial reminder balloon lifetime	Not configured	No
Reminder balloon lifetime	Not configured	No
Synchronize all offline files before logging off	Not configured	No
Synchronize all offline files when logging on	Not configured	No
Synchronize offline files before suspend	Not configured	No
Remove "Work offline" command	Not configured	No

Using group policies to configure offline files

Using Scripts with Group Policies

- A ***script*** is a list of commands that can be executed within a single file, which can perform repetitive tasks.
- The ***Microsoft Windows Script Hosts (WSH)*** is the component that provides scripting capabilities to Windows.

Types of Scripts

Computer Scripts

- Startup
- Shutdown

User Scripts

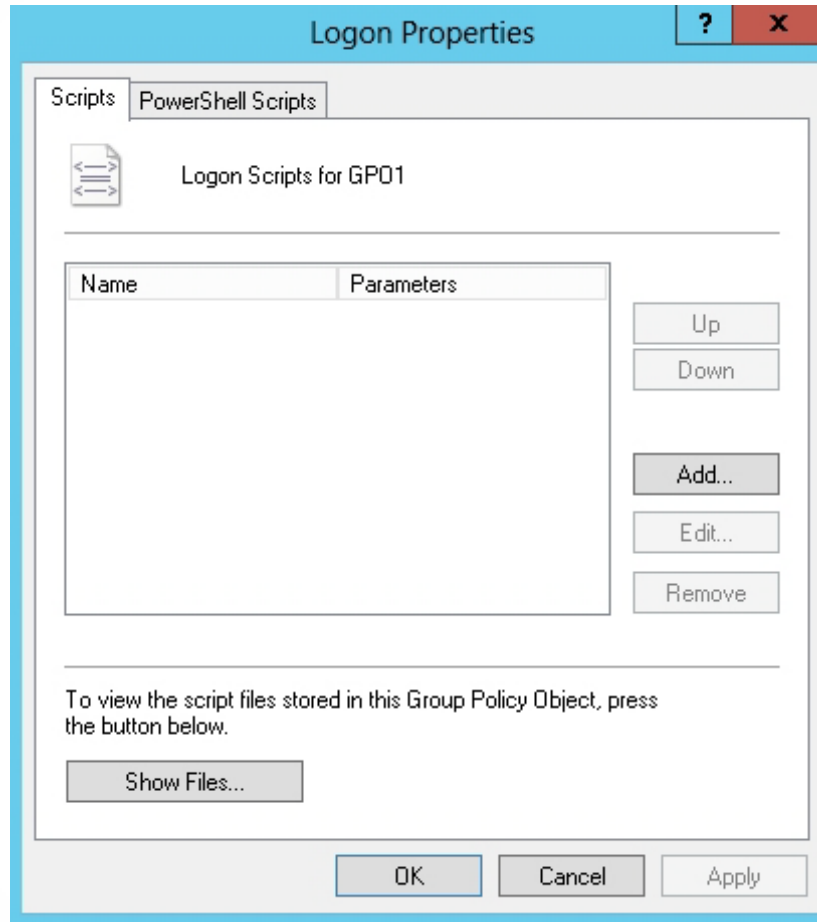
- Logon
- Logoff

Using Scripts with Group Policies

To use scripts:

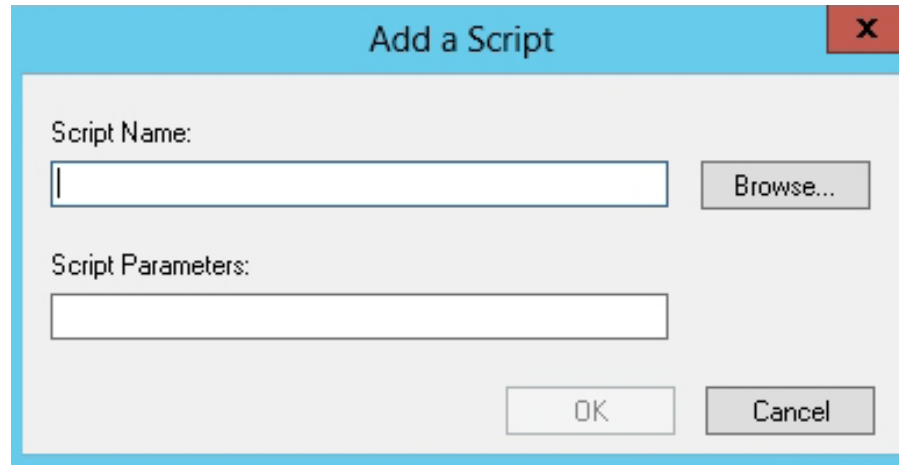
1. Create the login script.
2. Execute the script manually to make sure that the script runs and performs as planned.
3. Copy the script to the `c:\Windows\Sysvol\Sysvol\Domain Name\Scripts` folder on a domain controller. The content of SYSVOL volume is automatically replicated to the other domain controllers within the domain.
4. Configure a GPO to execute the script during startup, shutdown, logon, or logoff.

Implement a Login Script Using Group Policies



Opening the Logon Properties dialog box

Implement a Login Script Using Group Policies



The image shows a screenshot of the 'Add a Script' dialog box. The dialog has a blue title bar with the text 'Add a Script' and a red close button. The main area is light gray and contains two text input fields. The first field is labeled 'Script Name:' and has a 'Browse...' button to its right. The second field is labeled 'Script Parameters:'. At the bottom of the dialog, there are 'OK' and 'Cancel' buttons.

Adding a script to a GPO

Using Administrative Templates

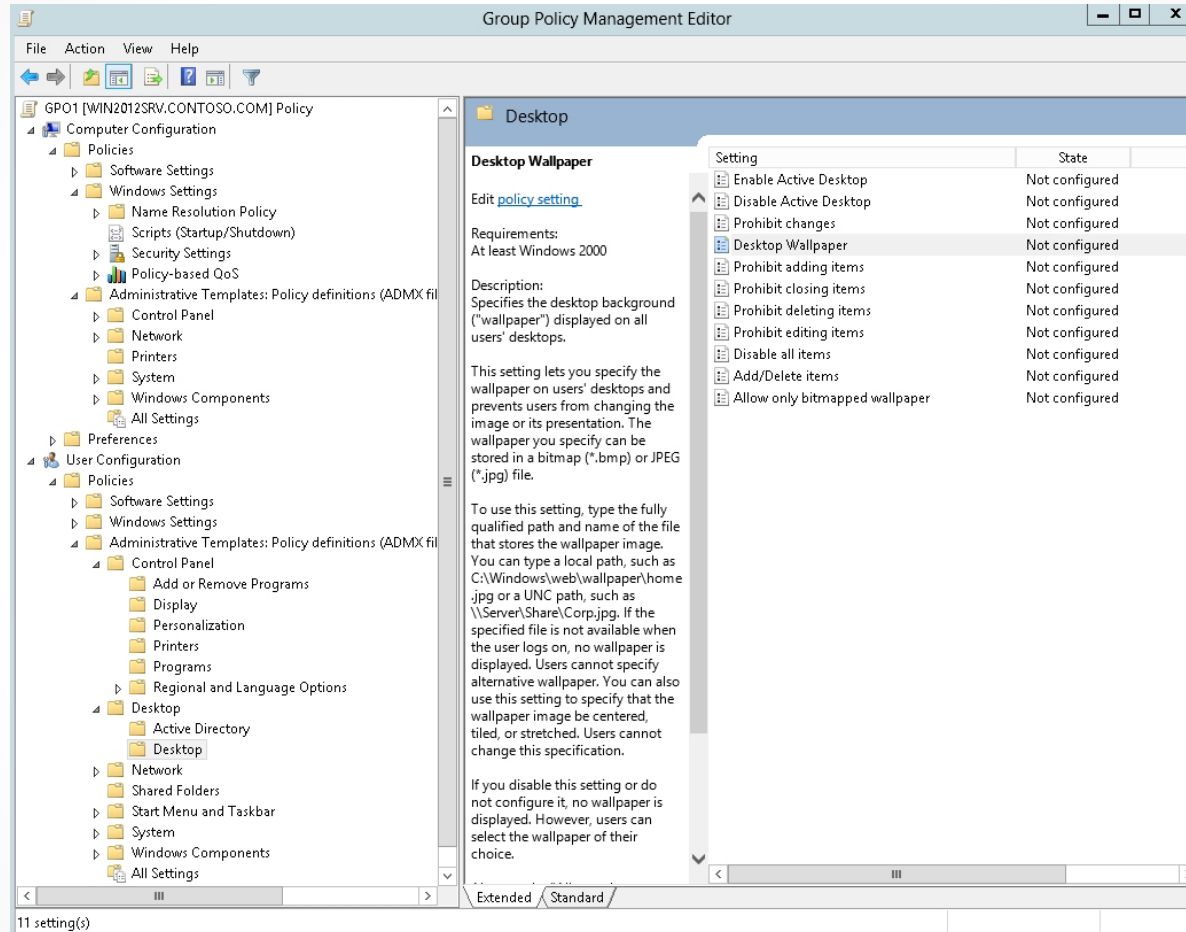
- **ADM files:** Used to define the settings that an administrator can configure through Group Policy.
- **ADMX files:** Like ADM files but based on eXtensible Markup Language (XML). Can be stored in a single location called the *Central Store* in the SYSVOL directory.
- **ADML files:** Language-specific files used to store descriptions of settings.

Managing Administrative Templates

Requirements for an Administrative Template setting are displayed:

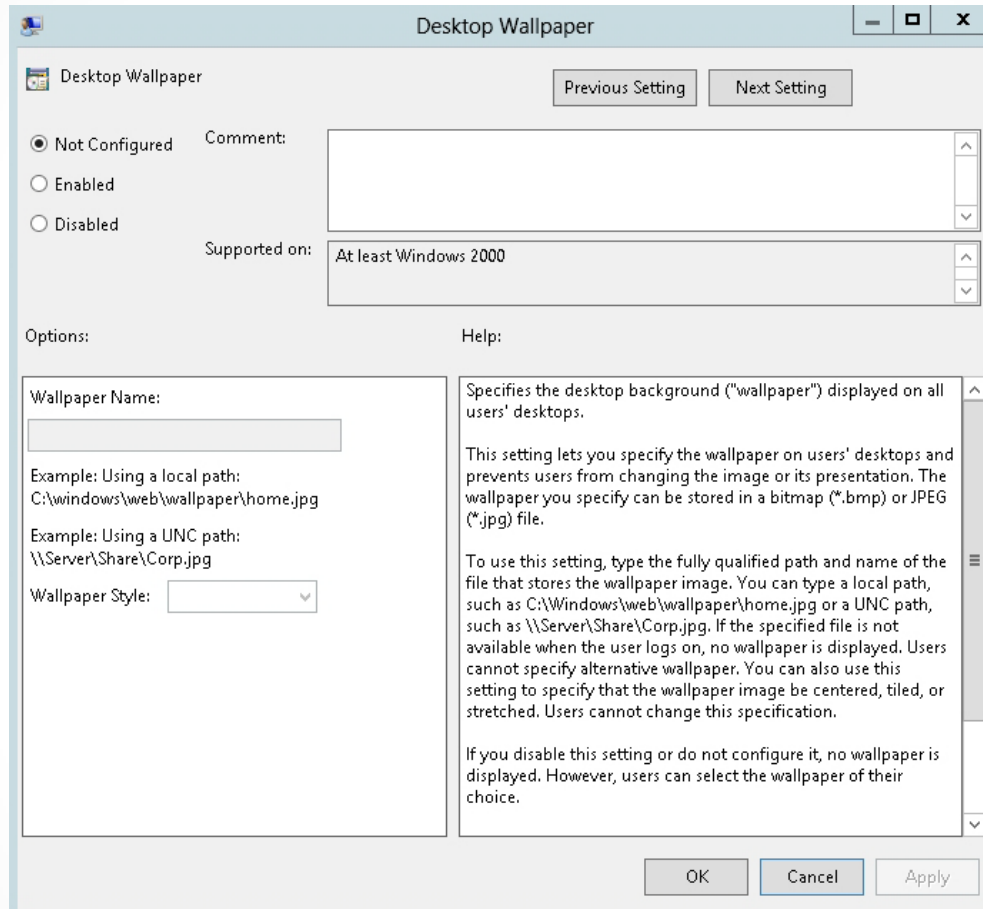
- On the Extended tab, when you click to select an Administrative Template setting
- When you double-click an Administrative Template setting

Managing Administrative Templates



Selecting an Administrative Template

Managing Administrative Templates



Viewing the Settings dialog box

Managing Administrative Templates

When configuring Administrative Templates, there are three states:

- **Not Configured:** The registry key is not modified or overwritten.
- **Enabled:** The registry key is modified by this setting.
- **Disabled:** The Disabled settings undo a change made by a prior Enabled setting.

The Central Store

The **Central Store**:

- Is a folder structure created in the SYSVOL directory on the domain controllers in each domain in your organization.
- Is created only on a single domain controller for each domain.

The content of the SYSVOL will be replicated to the other domain controllers.

Creating a Central Store

1. Create a PolicyDefinitions folder in the %systemroot%\sysvol\domain\policies\ folder.
2. The PolicyDefinitions folder stores all language-neutral ADMX files. Therefore, copy all files from the %systemroot%\PolicyDefinitions* folder to the %systemroot%\sysvol\domain\policies\ folder.
3. Copy all the language folders and files to %systemroot%\sysvol\domain\policies\ PolicyDefinitions.

Security Templates

A **security template** is a collection of configuration settings stored in a text file with the .inf extension. They can be used to:

- Save the security configuration to a file.
- Deploy the security settings to a computer or group policy.
- Analyze compliance of a computer's current configuration against the desired configuration.

Policies Configured with Security Templates

Account

Local

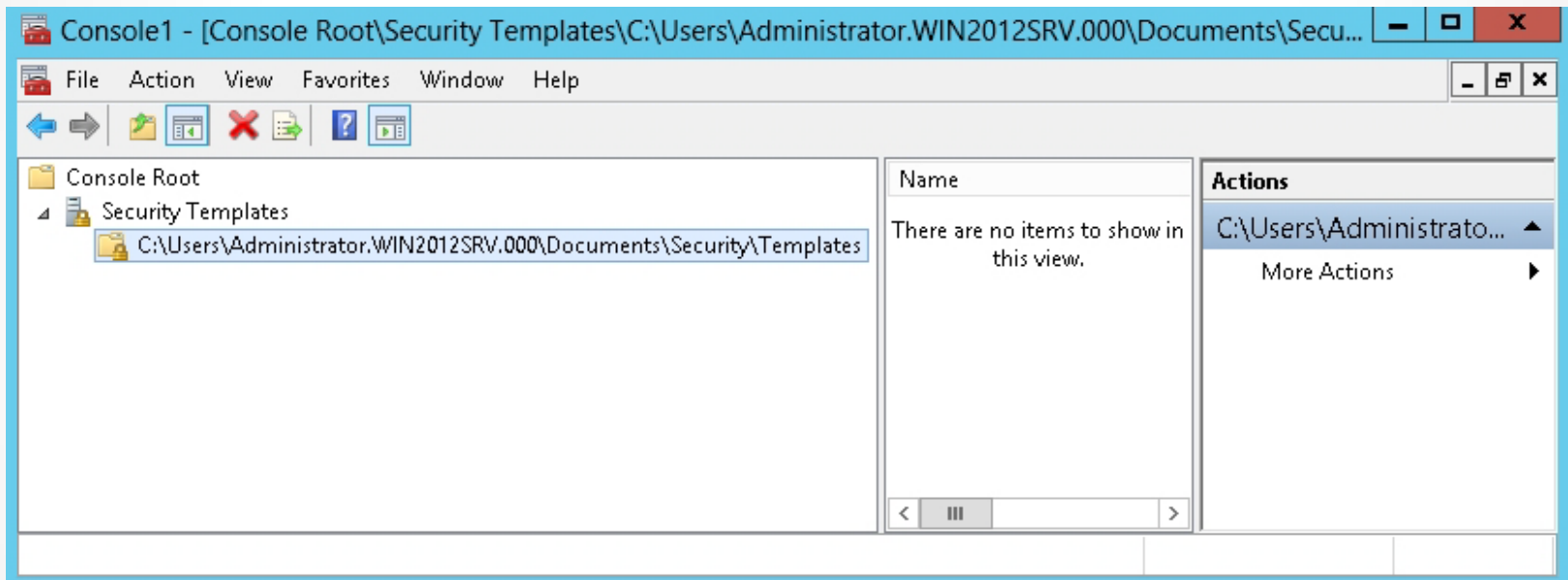
Event Log

Restricted
Groups

System
Services

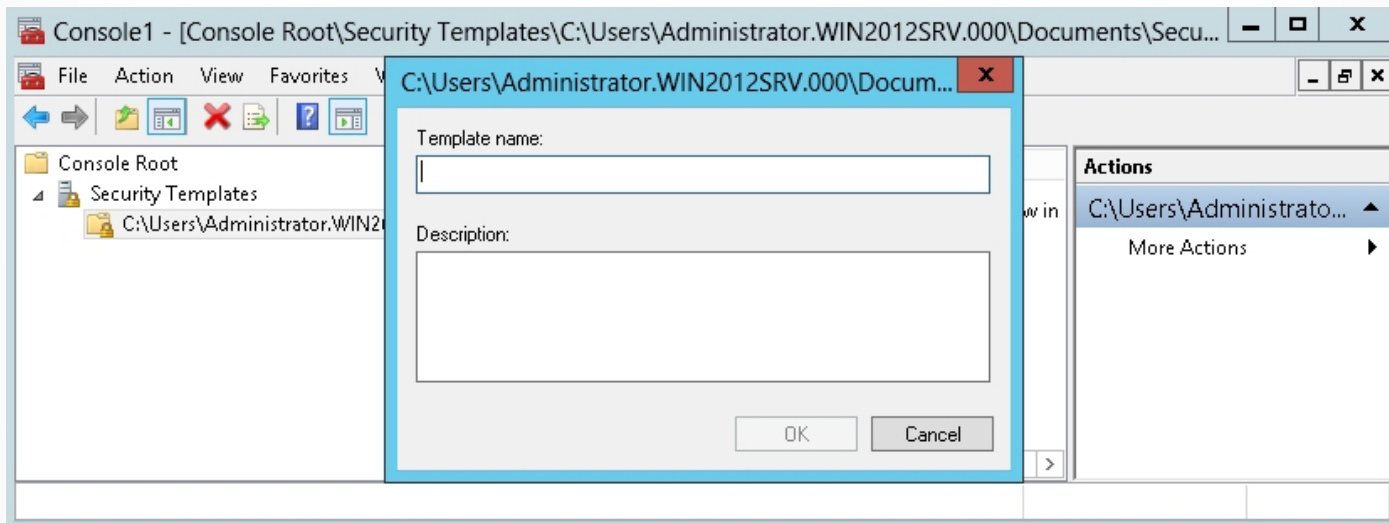
Registry
Permissions

The Security Templates Snap-In



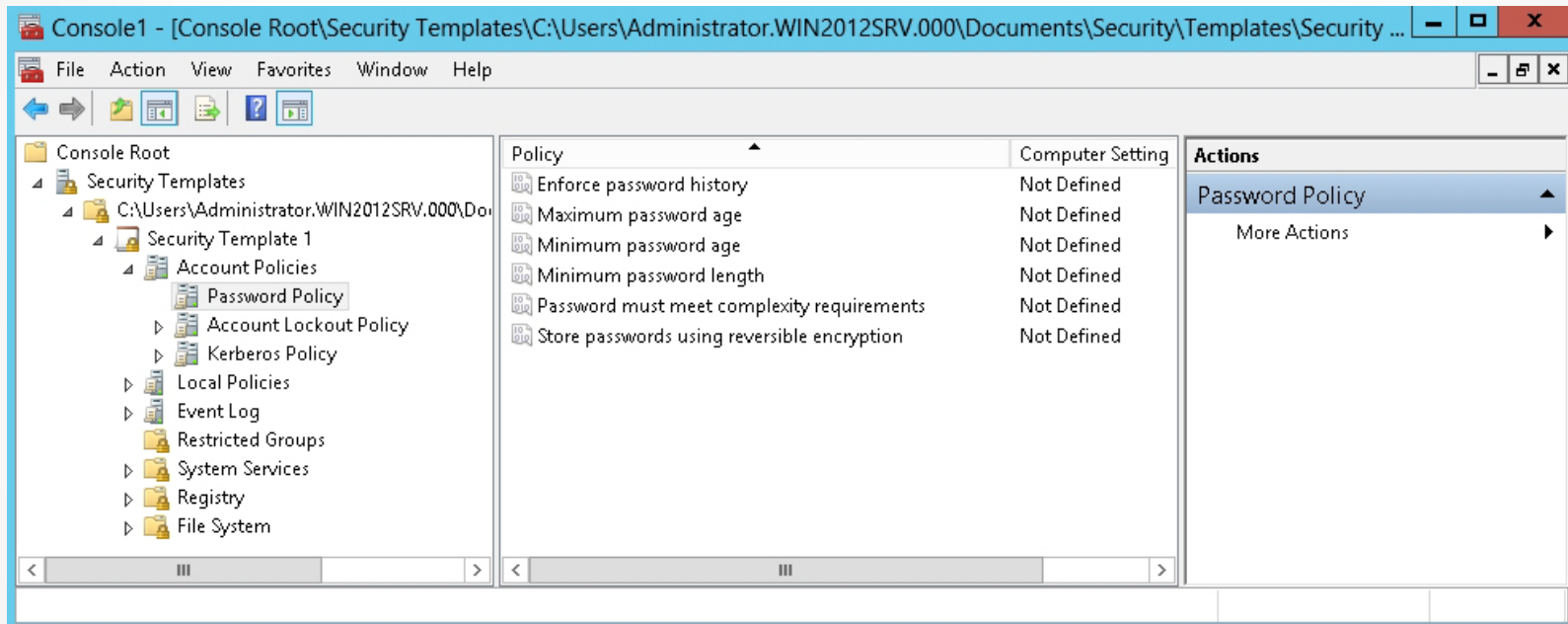
To create a new security template, right-click the node where you want to store the security template, and click New Template

Open the Security Templates Snap-In



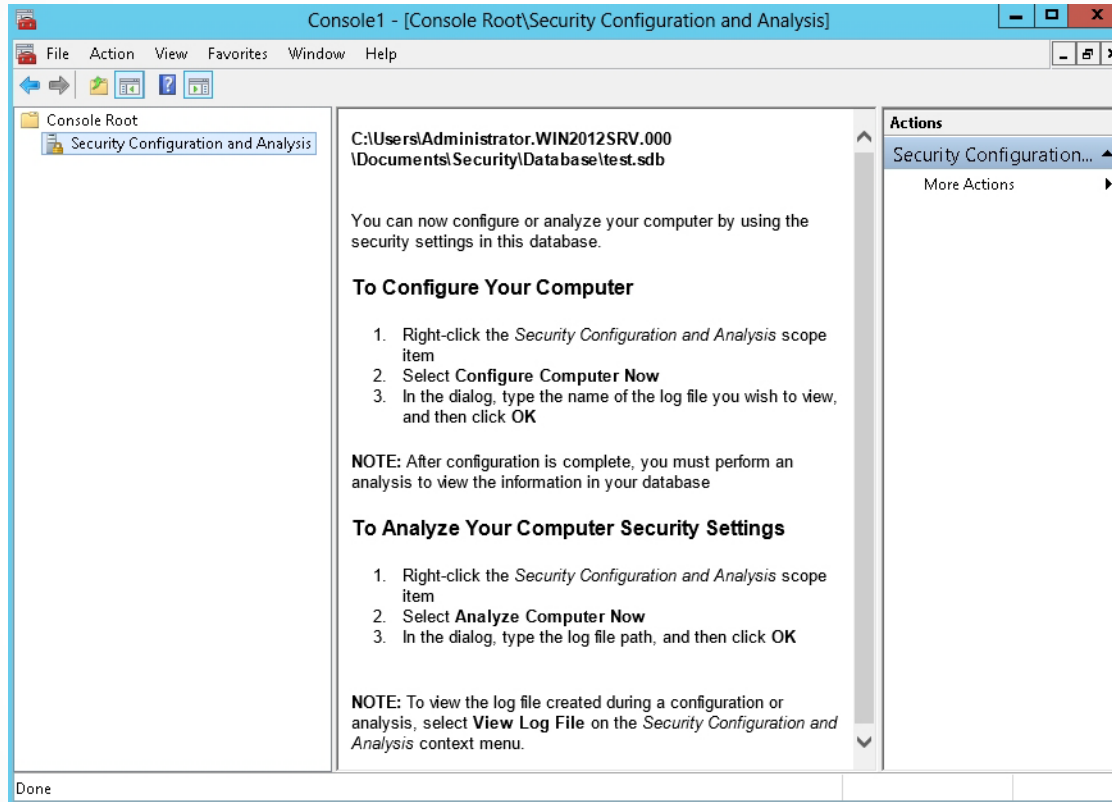
Naming the security template

Open the Security Templates Snap-In



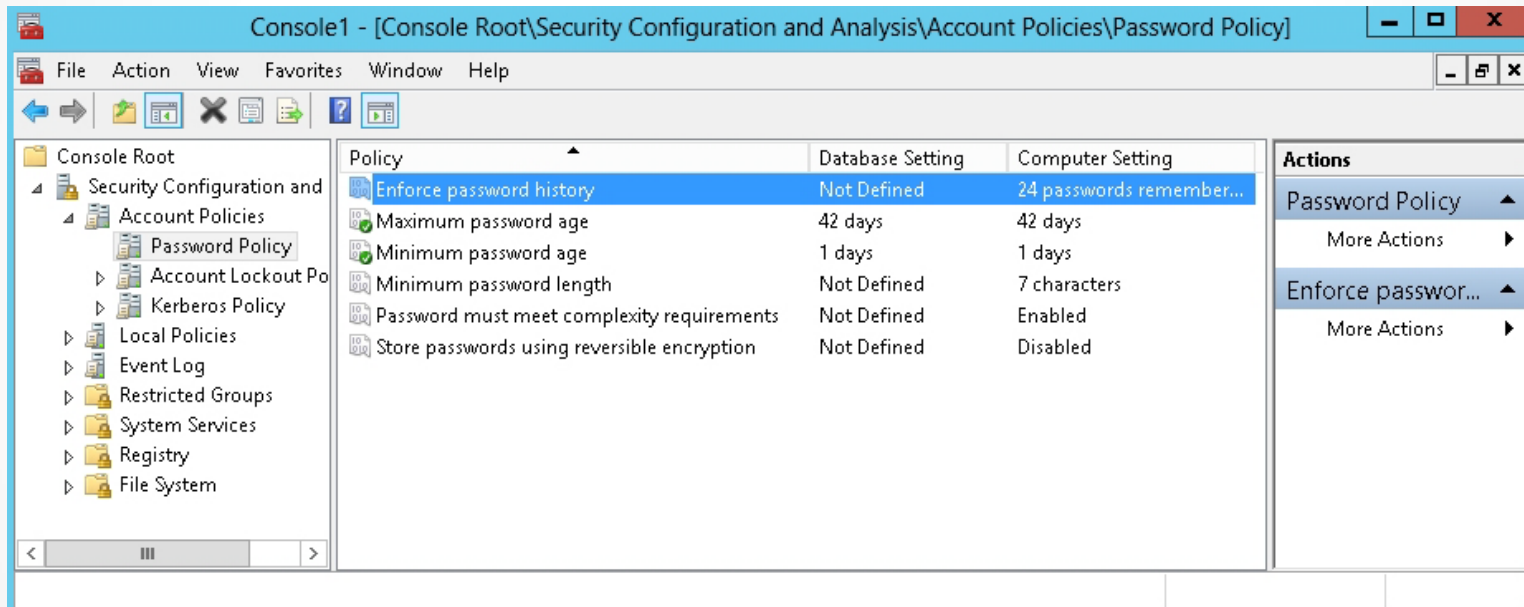
Viewing a security template

Compare Settings with a Security Template



Viewing the Security Configuration and Analysis console

Compare Settings with a Security Template

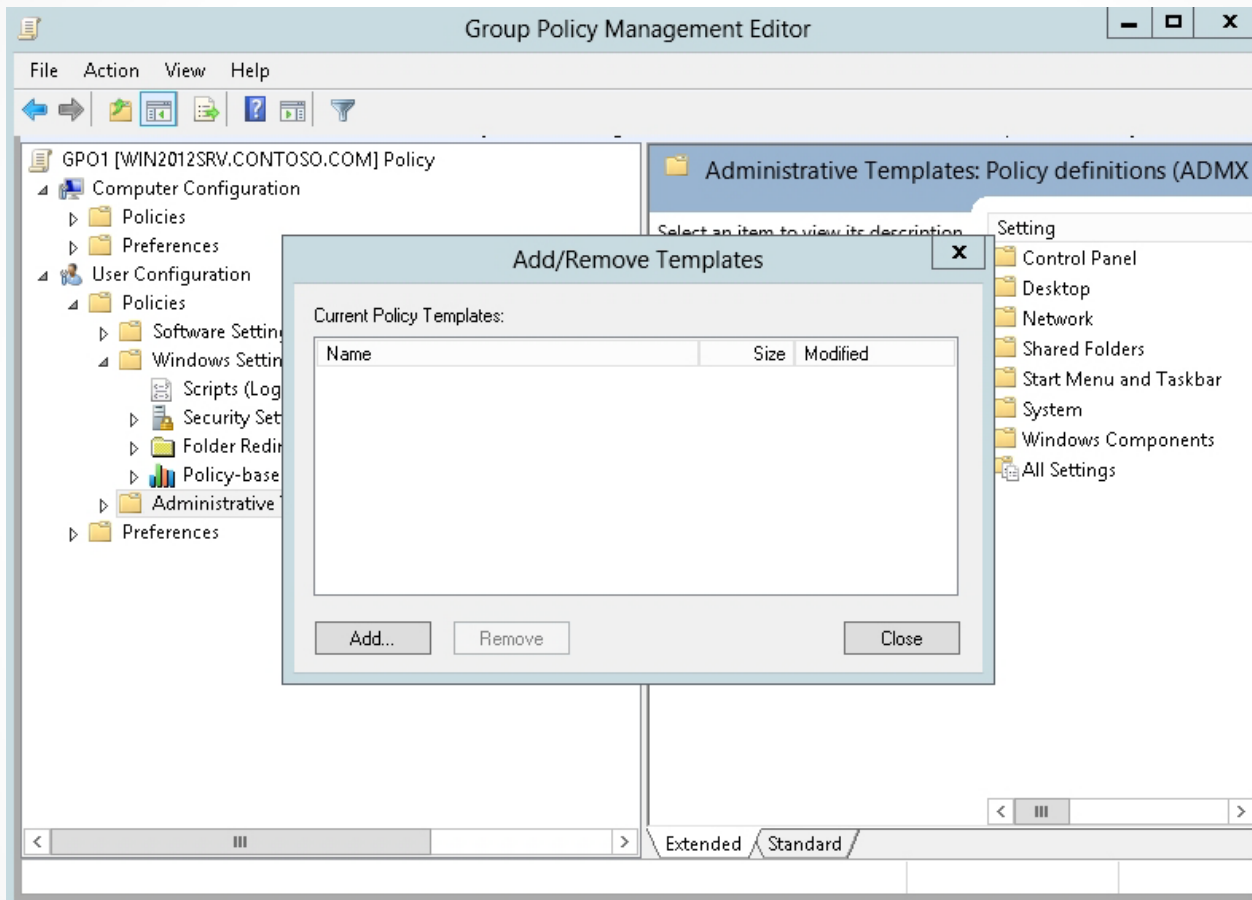


Comparing a security template with actual settings

Custom Administrative Template Files

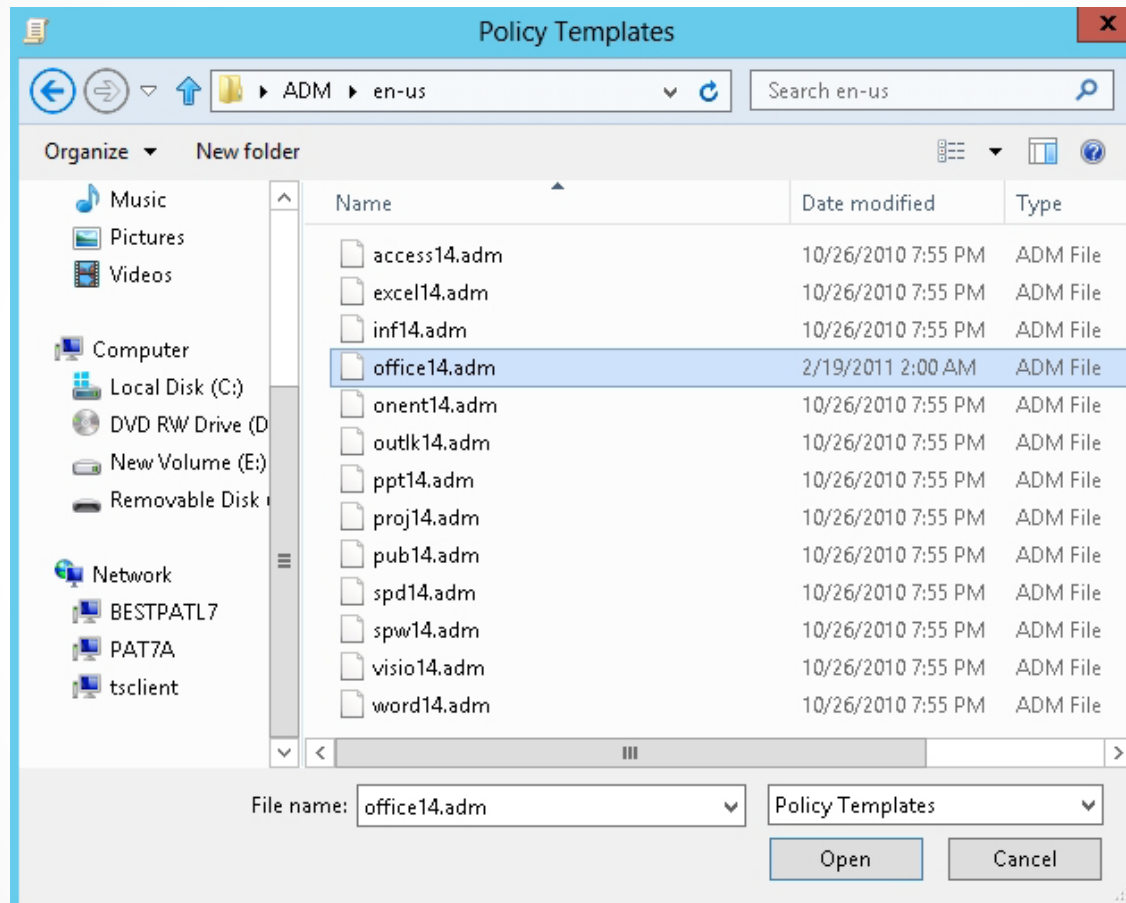
- To make settings in ADMX files available to a GPO, add the Administrative Templates file to the GPO.
- If you have older ADM files, either add them to the GPO or convert the ADM file to an ADMX file.

Add Custom ADM Administrative Template Files



Opening the Add/Remove Templates dialog box

Add Custom ADM Administrative Template Files



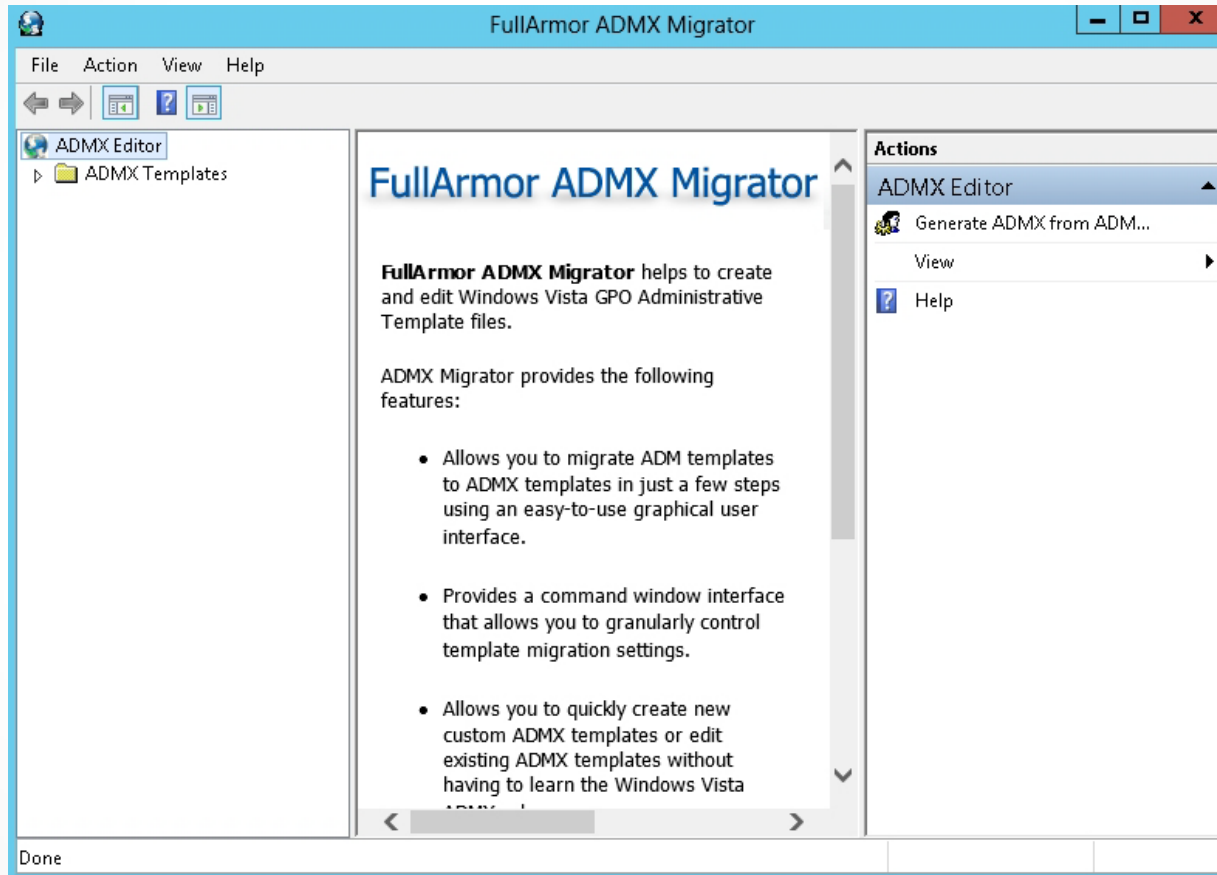
Navigating to and opening an ADM file

Using ADMX Migrator

ADMX Migrator:

- Is a snap-in for the MMC that simplifies the process of converting existing Group Policy ADM templates to the new ADMX format.
- Provides a graphical user interface for creating and editing Administrative Templates.

Use ADMX Editor to Migrate ADM Templates



Opening the ADMX Migrator

Property Filters for Administrative Templates

- By default, all policy settings are displayed.
- To narrow down the displayed list of settings, use ***Administrative Templates Property Filters***.

Property Filters for Administrative Templates

- To filter the settings displayed, select or deselect the following filter options:
 - Managed or Unmanaged
 - Configured or Not Configured
 - Keyword Filters
 - Requirements Filters

Lesson Summary

- Group Policies provides centralized management and configuration of operating systems, applications, and user settings.
- Windows Installer installs, maintains, and removes software on Windows.
- Installation information for software is stored in a Microsoft Software Installation (MSI) file.
- To deploy software with group policies, create a distribution point on the publishing server, create a GPO to use to distribute the software package, and assign or publish a package to a user or computer.
- Folder redirection allows you to redirect the content of a certain folder to a network location or to another location on the user's local computer.

Lesson Summary

- Starting with Windows Vista and Windows Server 2008, ADMX files define the settings that an administrator can configure through Group Policy.
- The Central Store is a folder structure created in the SYSVOL directory on the domain controllers in each domain in your organization.
- Security templates help you implement security settings quickly and efficiently.
- ADMX Migrator is a snap-in for the Microsoft Management Console (MMC) that simplifies the process of converting your existing Group Policy ADM templates to the new ADMX format and provides a graphical user interface for creating and editing Administrative Templates.

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