ADMINISTRATION OF OPERATING SYSTEMS

Group Policy (GPO)

What are GPOs?

- Group Policy is a powerful administrative tool

- You can use it to enforce various types of settings to a large number of users and computers

- Typically, you use GPOs to:
  - Apply security settings
  - Manage desktop application settings
  - Deploy application software
  - Manage Folder Redirection
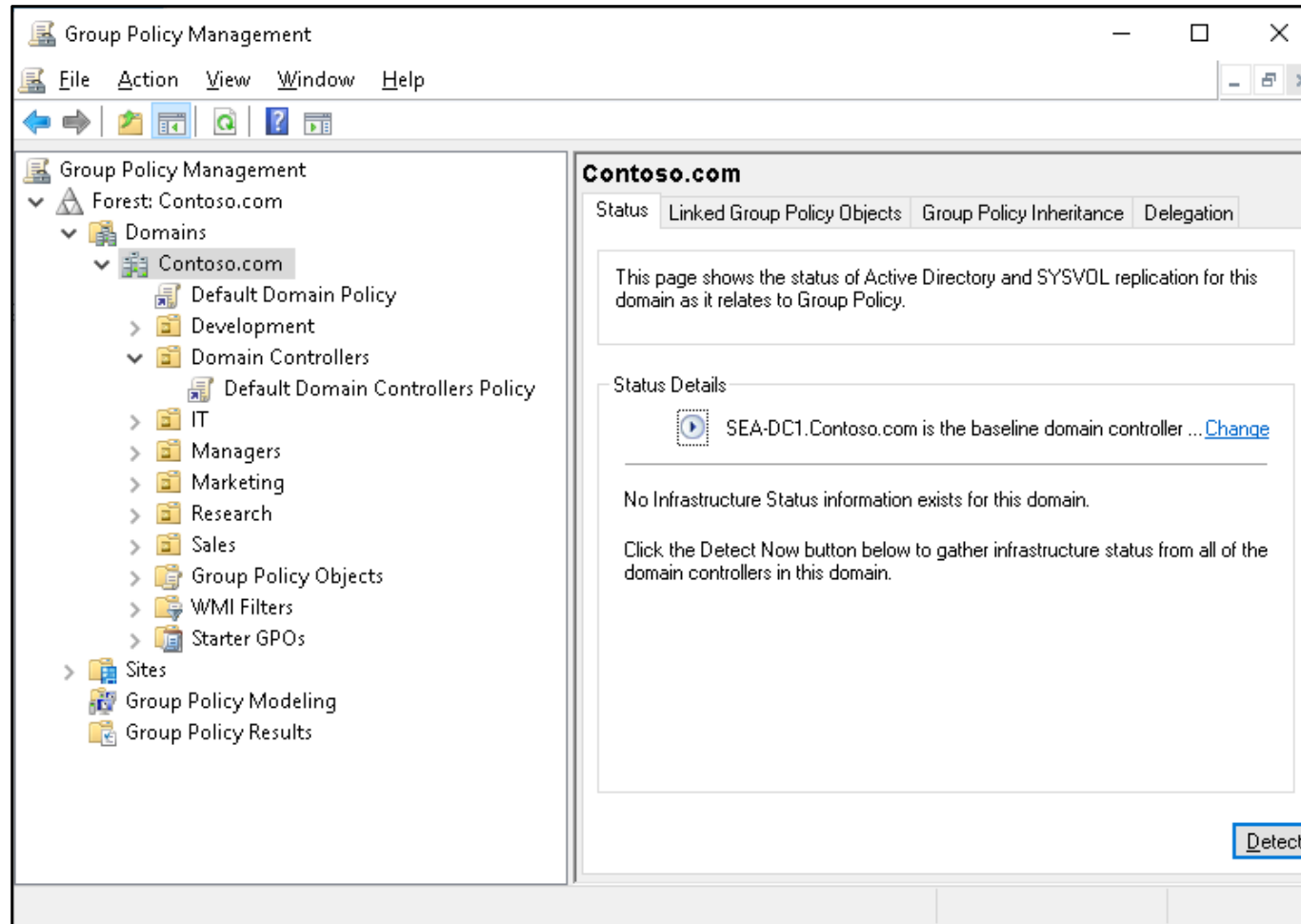 - Configure network settings

Overview of GPO scope and inheritance

- You can scope GPOs by using:
  - GPO links
  - Security filters
  - WMI filters

GPOs are processed on a client computer in the following order:

1. Local GPOs

2. Site-level GPOs

3. Domain-level GPOs

4. OU GPOs, including any nested (child) OUs

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What are domain-based GPOs?

Default domain GPOs

- A domain has two default GPOs:
    - Default Domain Policy
    - Default Domain Controllers Policy

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Demonstration: Create and configure a domain-based GPO

- Manage objects in AD DS
- Create and edit a GPO
- Link the GPO
- View the effects of the GPOs settings
- Create and link the required GPOs
- Verify the order of precedence
- Configure the scope of a GPO with security filtering
- Verify the application of settings

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Overview of GPO storage

- Group Policy settings are presented as GPOs in AD DS user interface tools, but a GPO is actually two components:
    - The **Group Policy** container
    - The **Group Policy** template

- The **Group Policy** container and the **Group Policy** template both replicate between all domain controllers in AD DS. However, these two items use different replication mechanisms:
    - The Group Policy container in AD DS replicates by the Directory Replication Agent
    - The Group Policy template in the **SYSVOL** replicates by using the Distributed File System Replication

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What are Starter GPOs?

- A Starter GPO:
    - Stores administrative template settings on which new GPOs will be based
    - Can be exported to .cab files
    - Can be imported into other areas of an organization

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What are administrative templates?
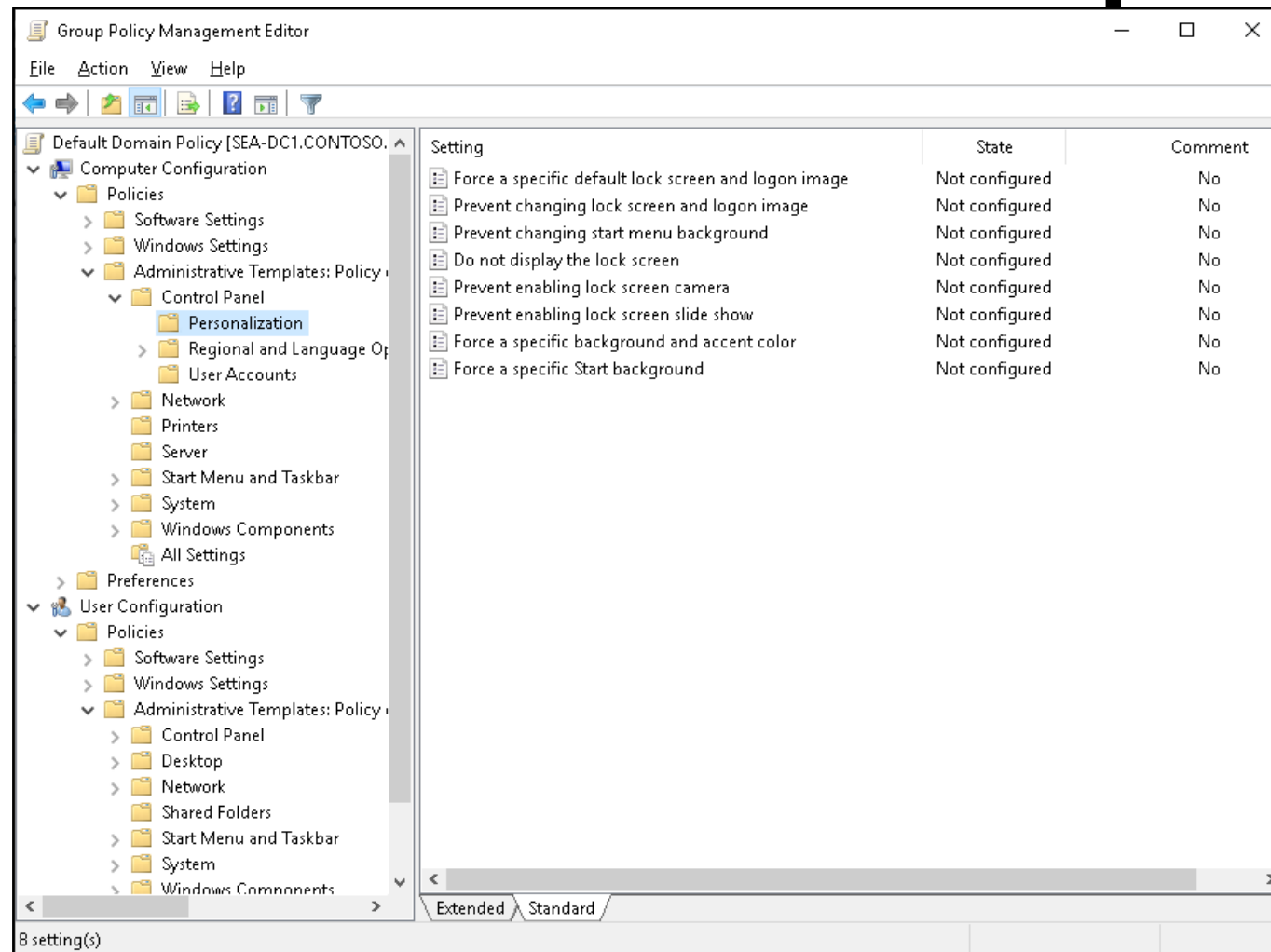
Overview of the Central Store

- The Central Store:
  - Is a central repository for .admx and .adml files
  - Is stored in **SYSVOL**
  - Must be created manually
  - Is detected automatically by Windows Vista, Windows Server 2008, and newer operating systems

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Group Policy management cmdlets

Cmdlet	Description
New-GPO	Creates a new GPO
Get-GPO	Retrieves a GPO
Set-GPO	Modifies properties of a GPO
Remove-GPO	Deletes a GPO
Rename-GPO	Renames a GPO
Backup-GPO	Creates a backup of a GPO
Copy-GPO	Copies a GPO from one domain to another
Restore-GPO	Restores a GPO from backup files
New-GPLink	Links a GPO to an AD DS container
Import-GPO	Imports GPO settings from a backed-up GPO
Set-GPRegistryValue	Configures one or more registry-based policy settings in a GPO

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Hvala na pažnji!