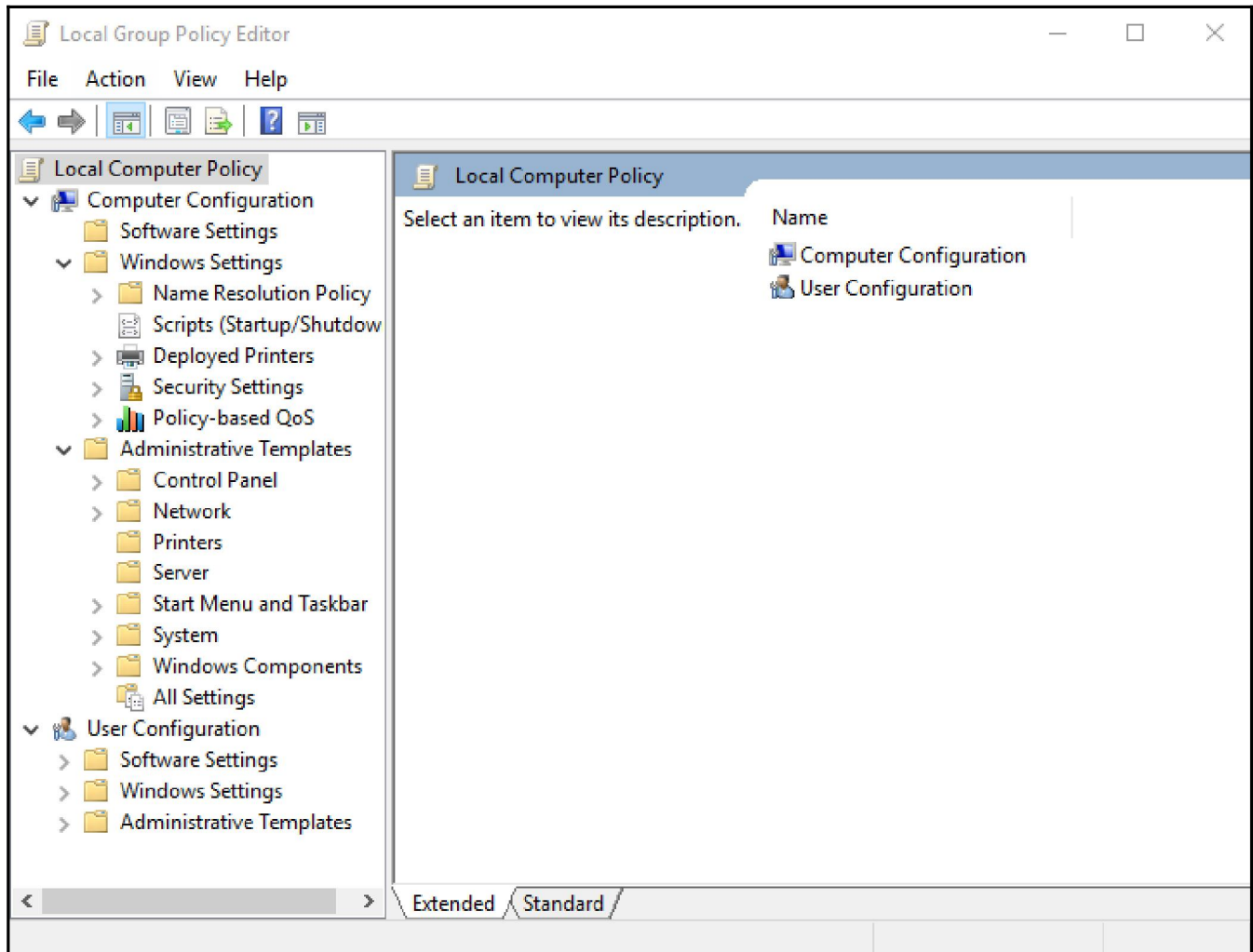
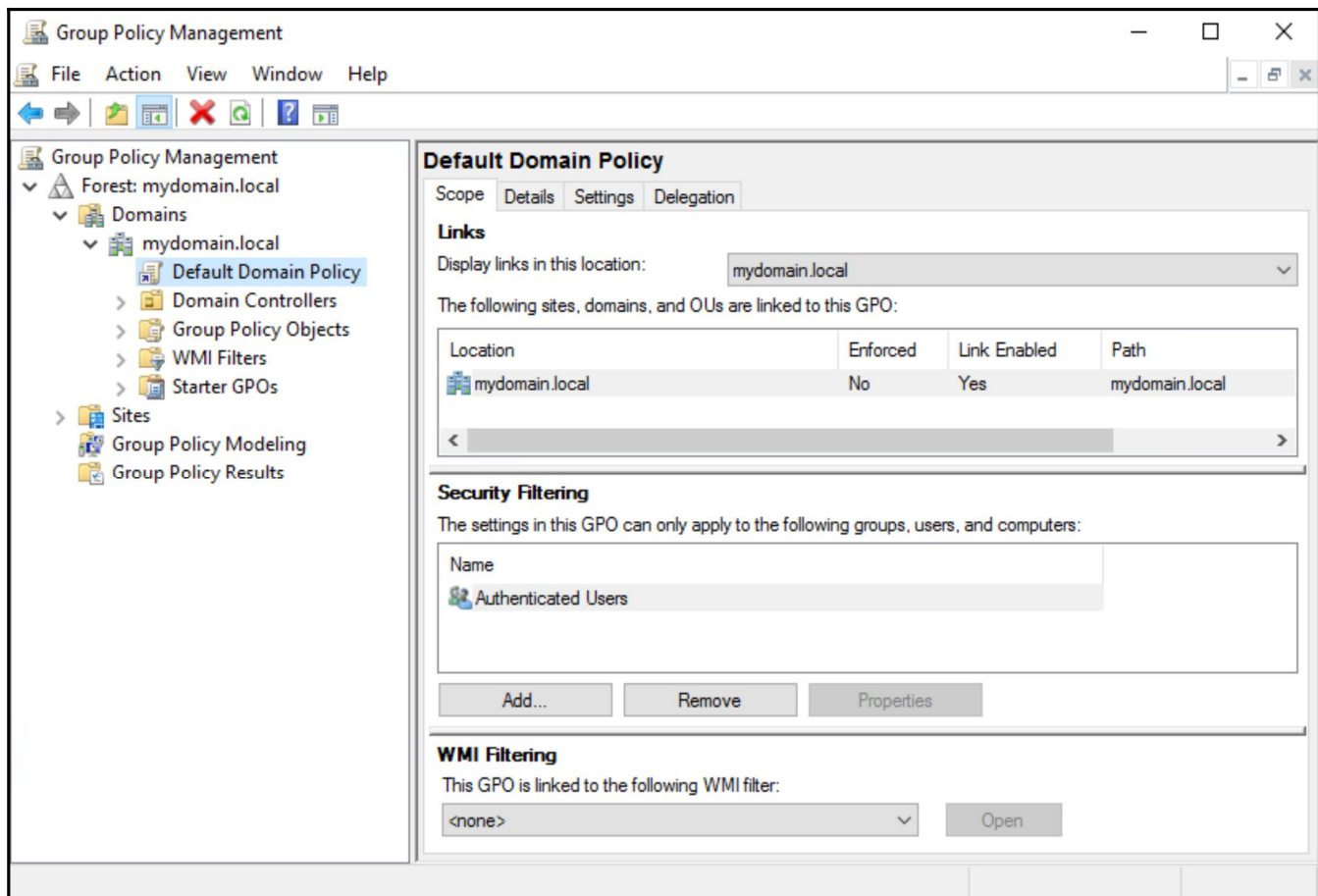
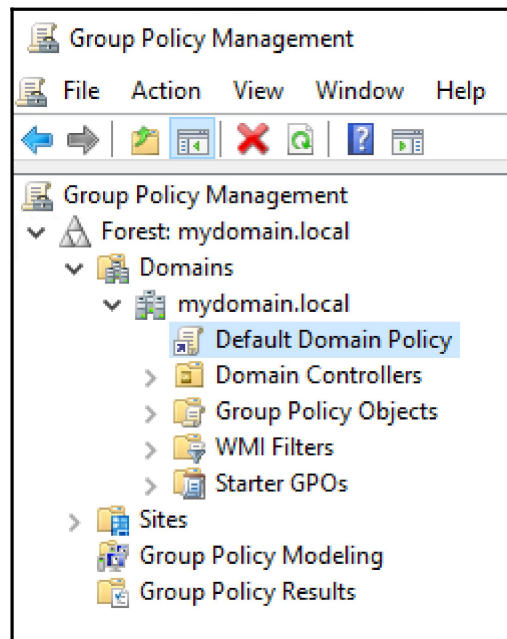
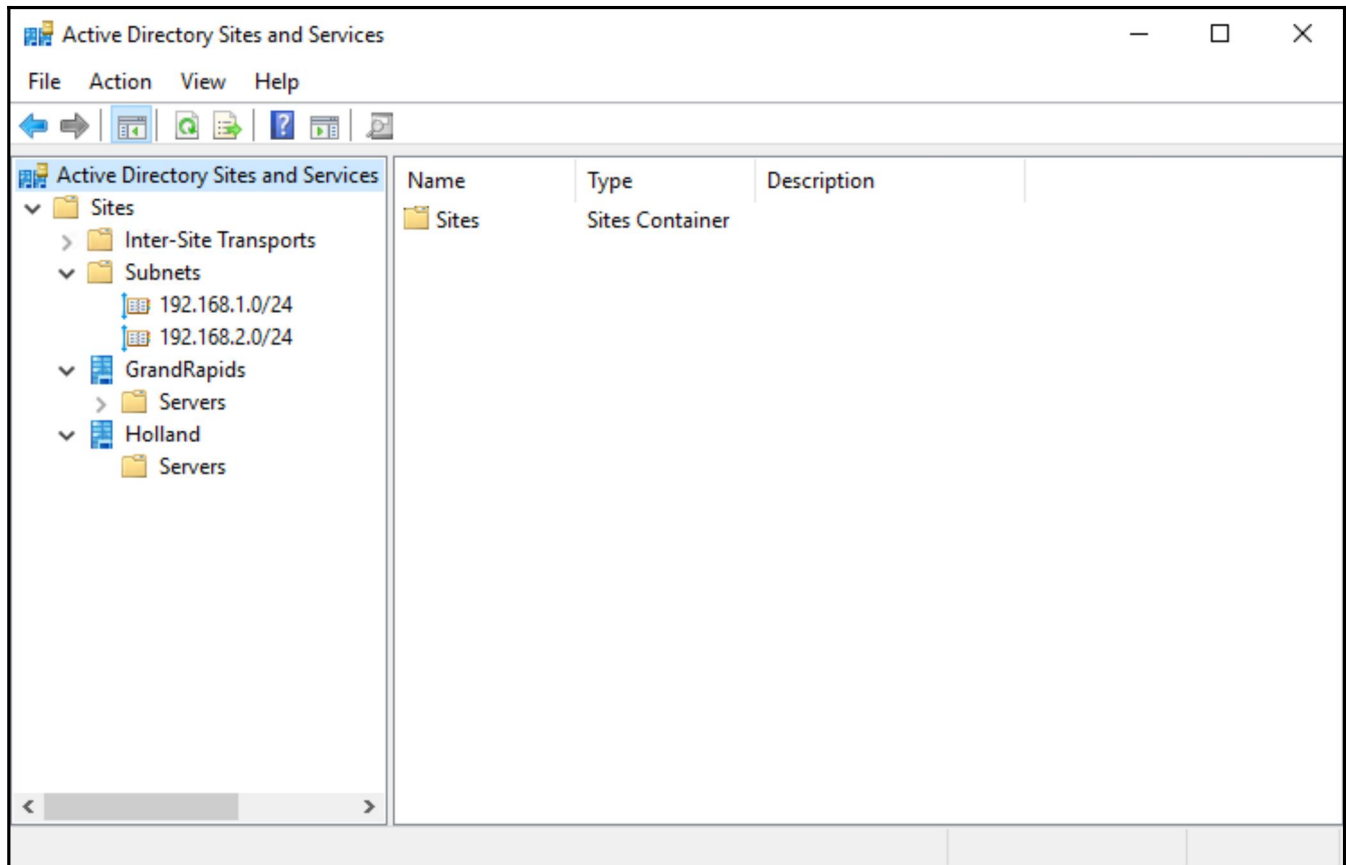
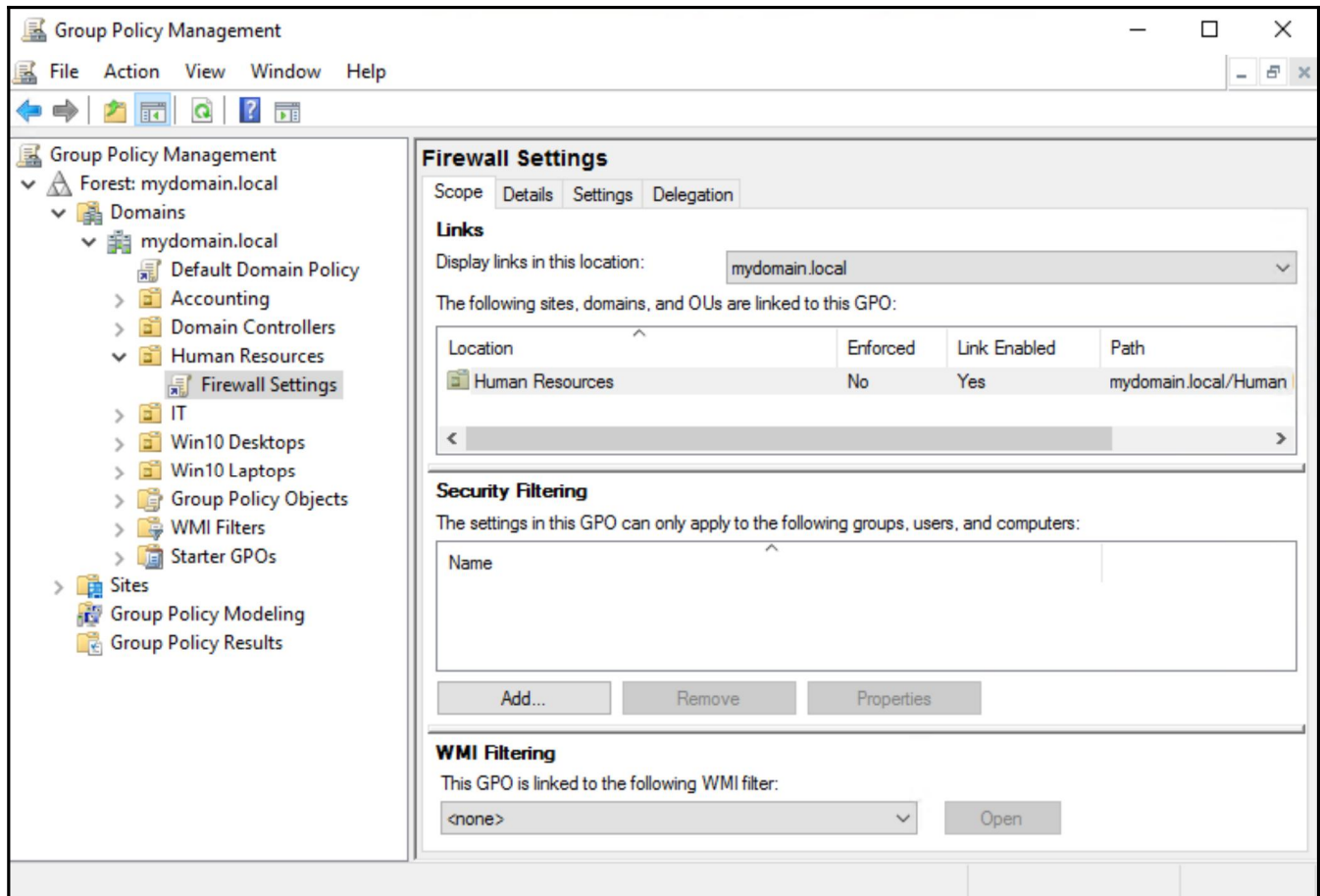


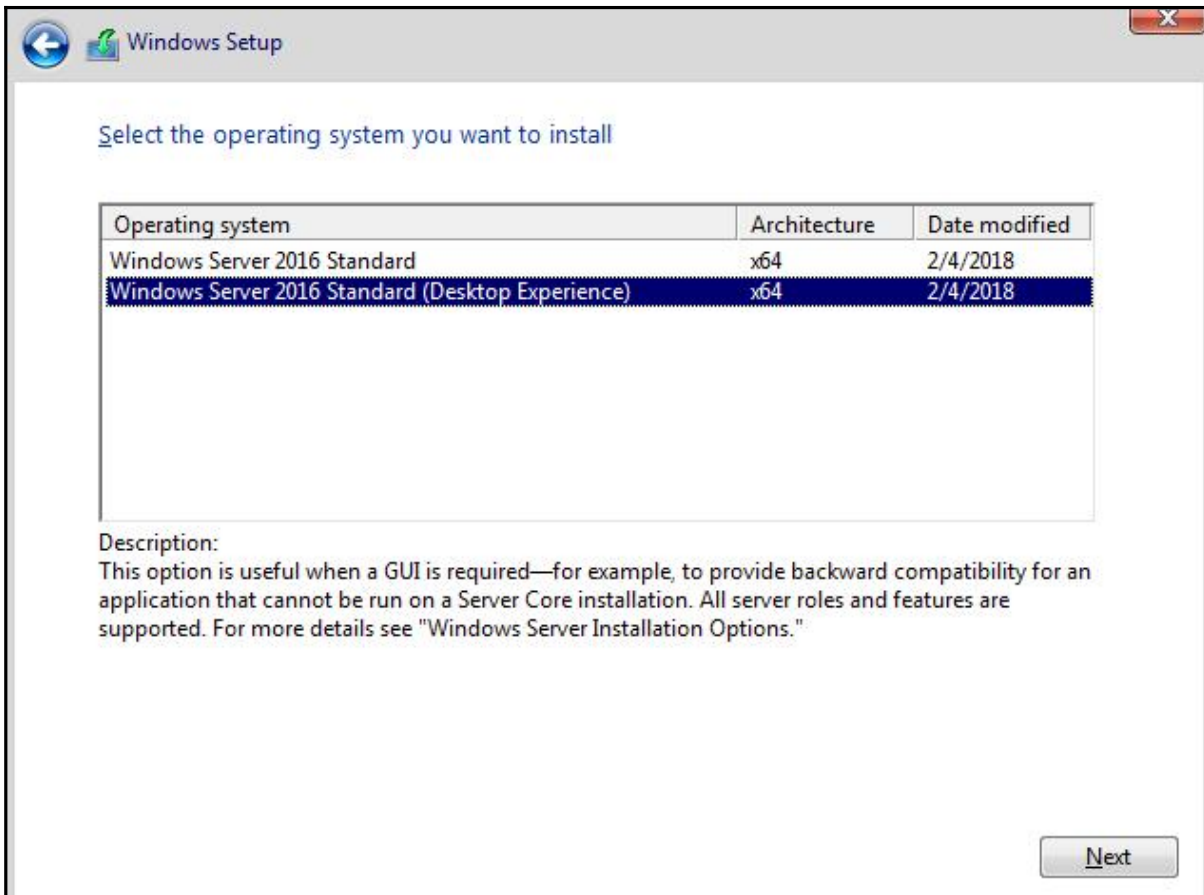
Chapter 01: Group Policy - The Basics

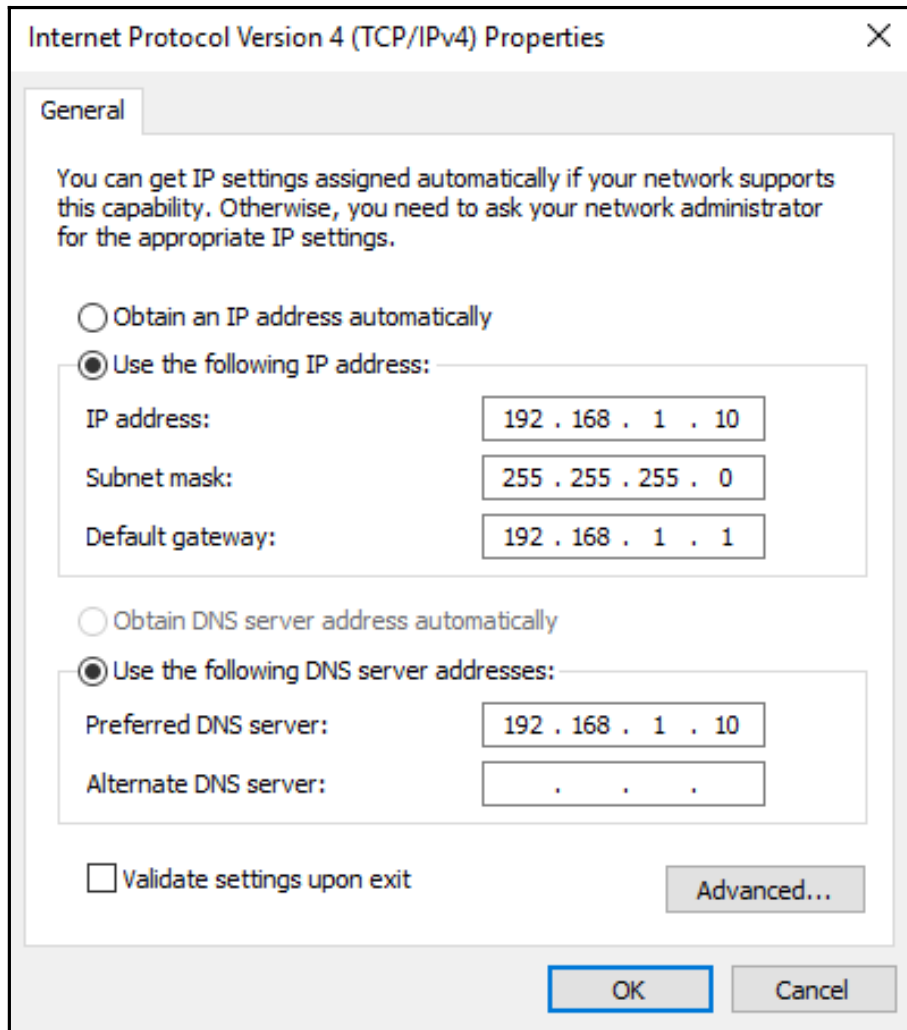


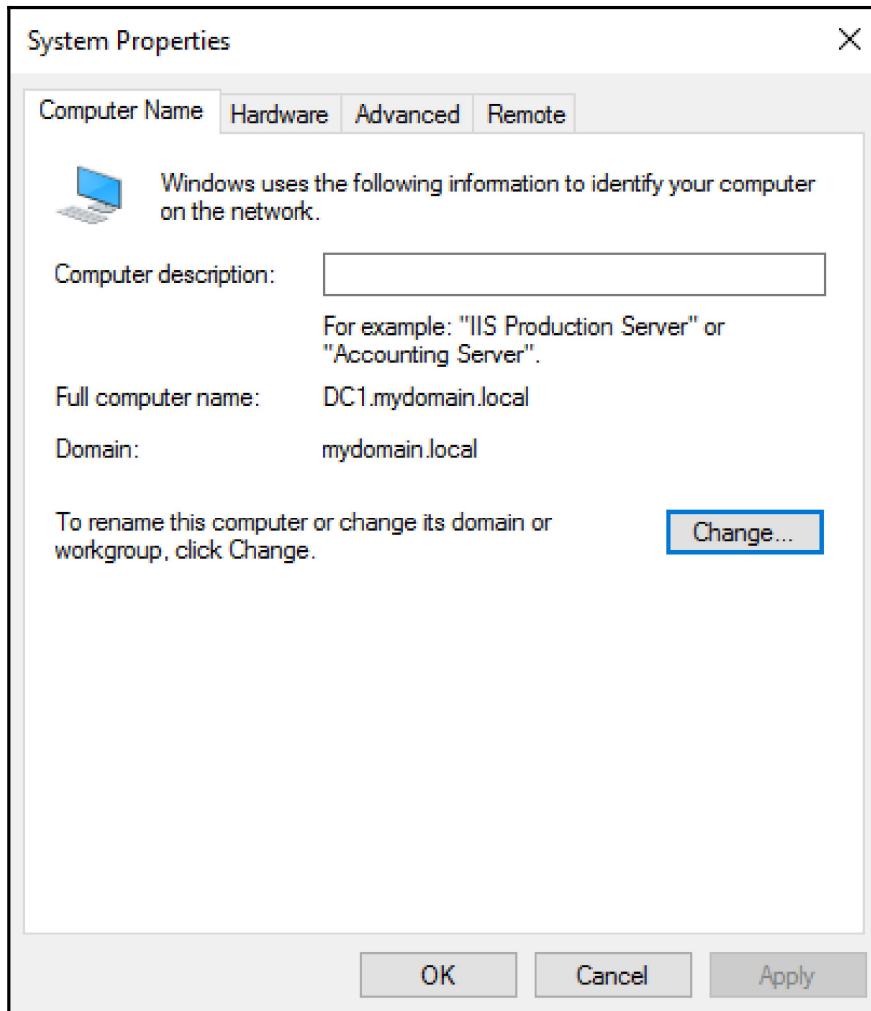


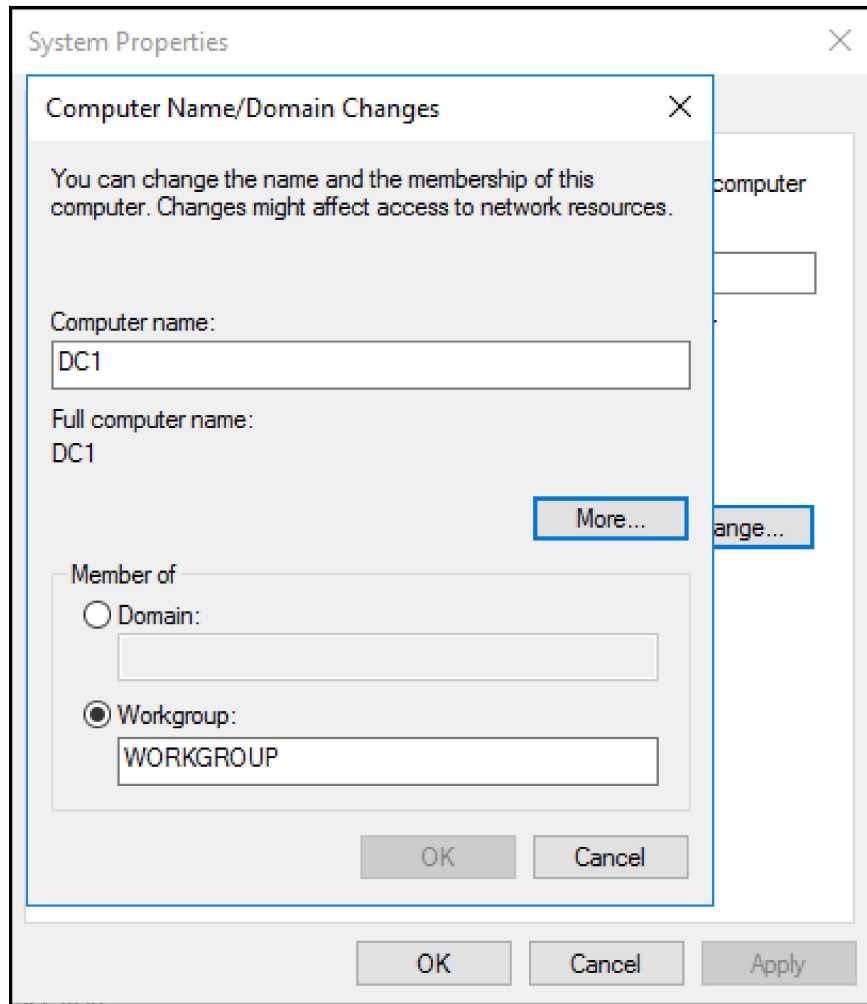


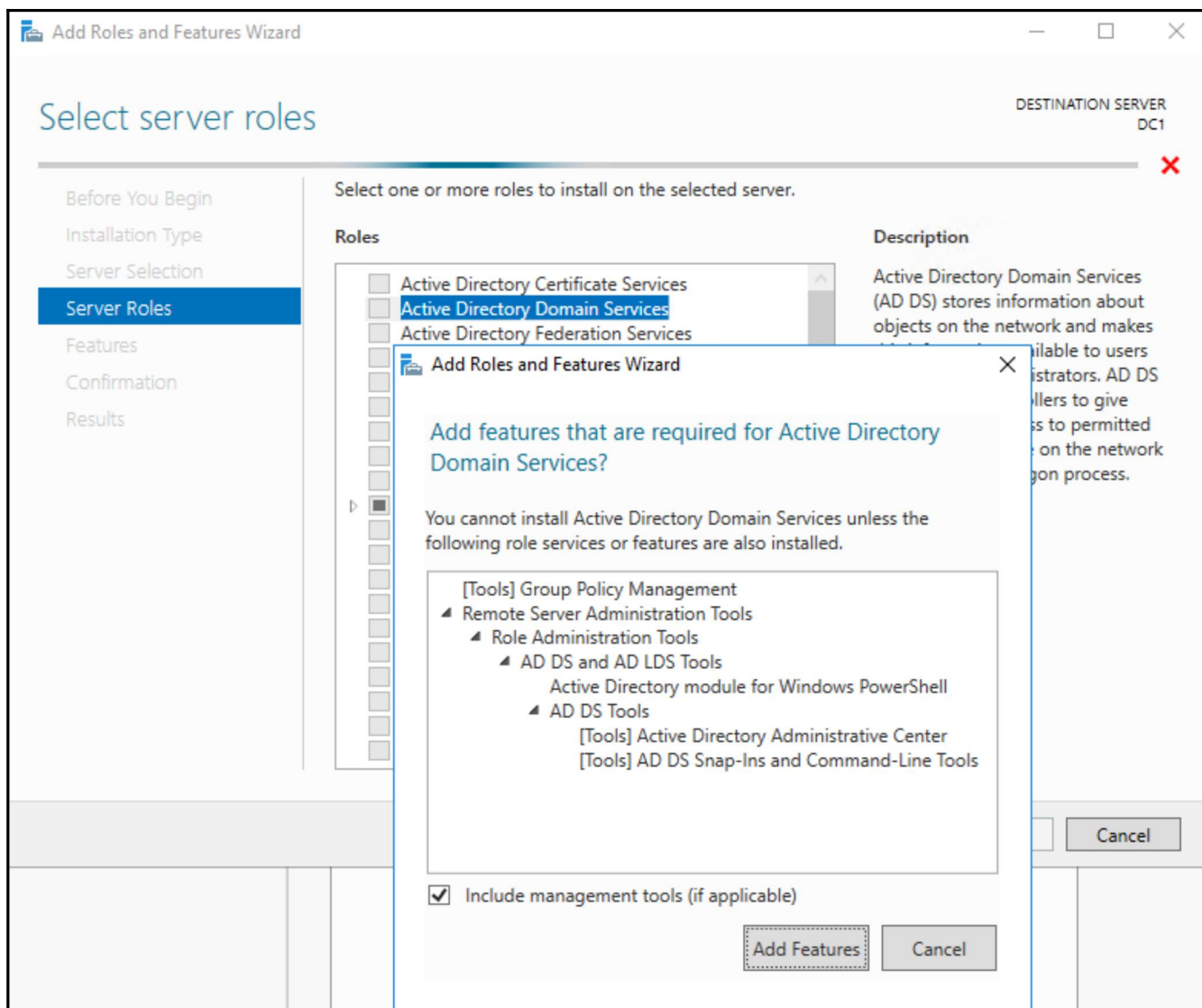













Features	Description
<ul style="list-style-type: none"> ▷ <input type="checkbox"/> .NET Framework 3.5 Features ▷ <input checked="" type="checkbox"/> .NET Framework 4.6 Features (2 of 7 installed) ▷ <input type="checkbox"/> Background Intelligent Transfer Service (BITS) <input type="checkbox"/> BitLocker Drive Encryption <input type="checkbox"/> BitLocker Network Unlock <input type="checkbox"/> BranchCache <input type="checkbox"/> Client for NFS <input type="checkbox"/> Containers <input type="checkbox"/> Data Center Bridging <input type="checkbox"/> Direct Play <input type="checkbox"/> Enhanced Storage <input type="checkbox"/> Failover Clustering <input checked="" type="checkbox"/> Group Policy Management <input type="checkbox"/> I/O Quality of Service <input type="checkbox"/> IIS Hostable Web Core <input type="checkbox"/> Internet Printing Client <input type="checkbox"/> IP Address Management (IPAM) Server <input type="checkbox"/> iSNS Server service <input type="checkbox"/> LPR Port Monitor 	<p>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.</p>

View installation progress



Feature installation

Installation started on DC1

Deployment Configuration

TARGET SERVER
DC1

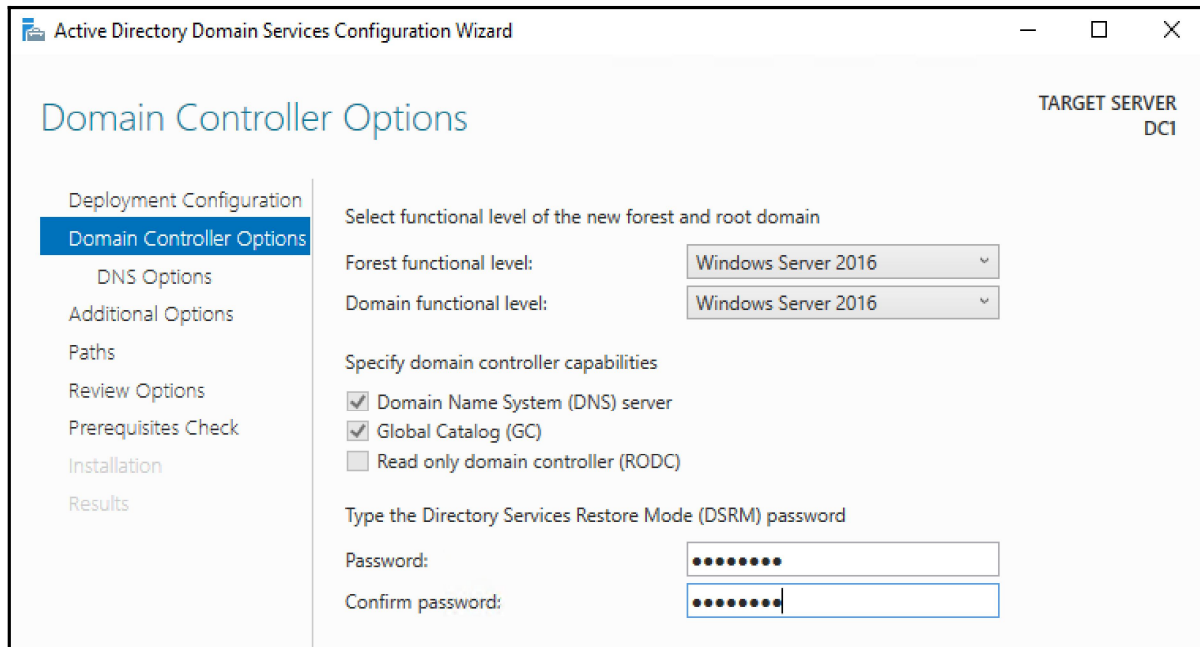
- Deployment Configuration
- Domain Controller Options
- Additional Options
- Paths
- Review Options
- Prerequisites Check
- Installation
- Results

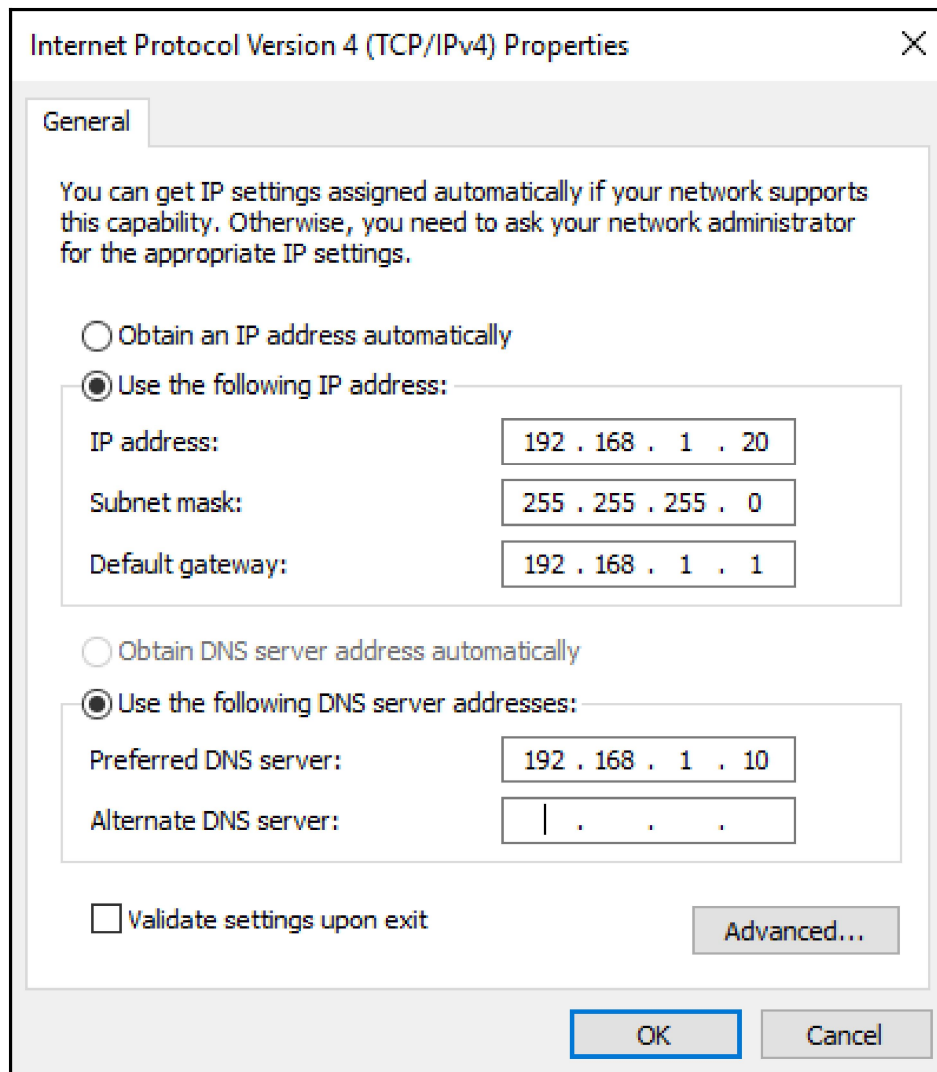
Select the deployment operation

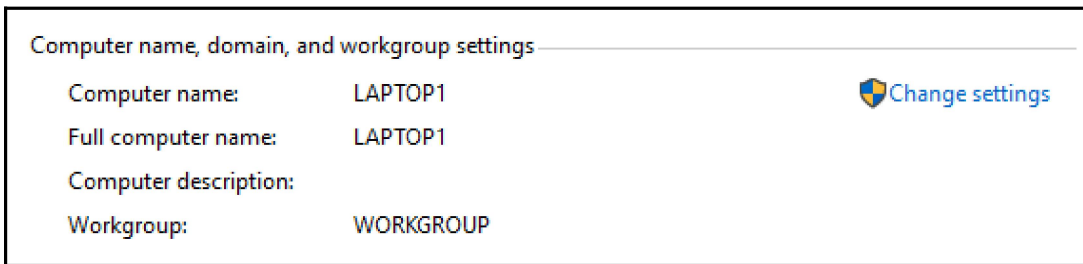
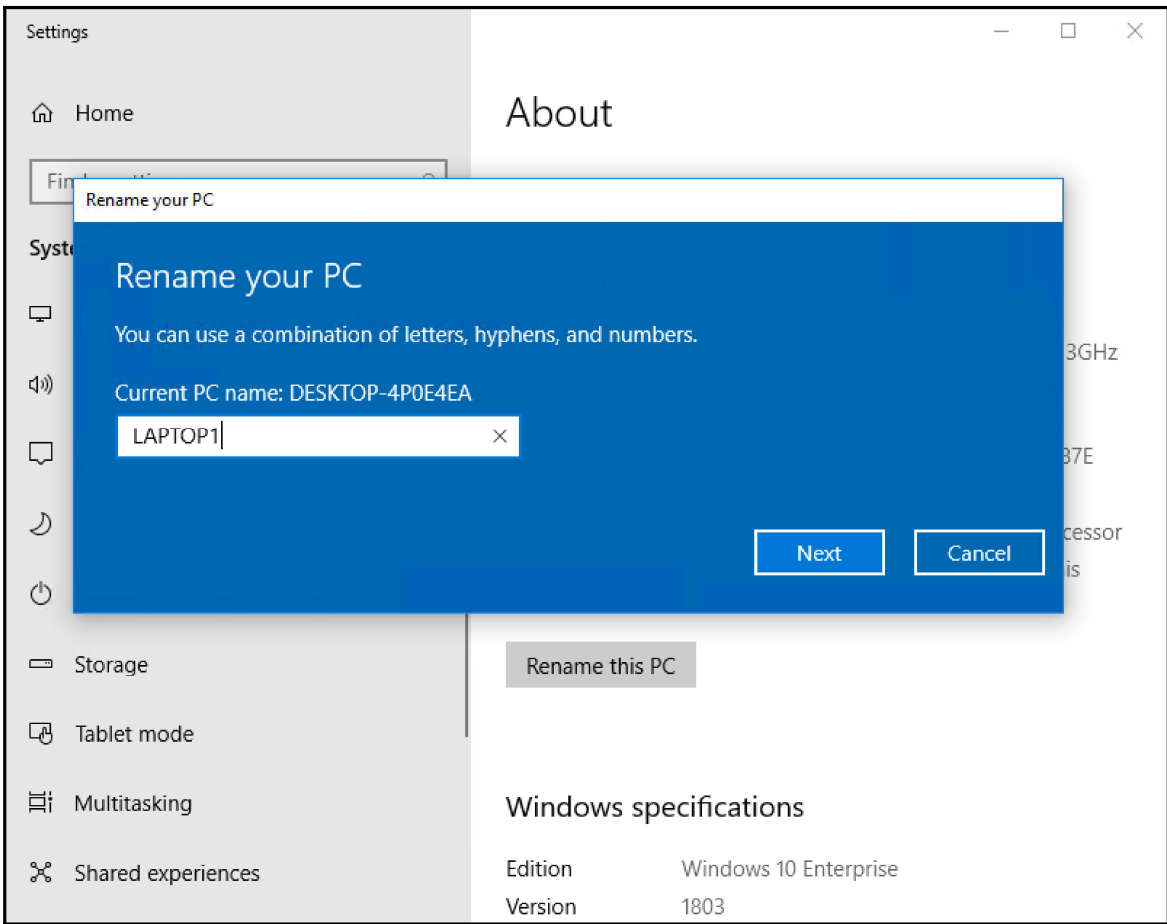
- Add a domain controller to an existing domain
- Add a new domain to an existing forest
- Add a new forest

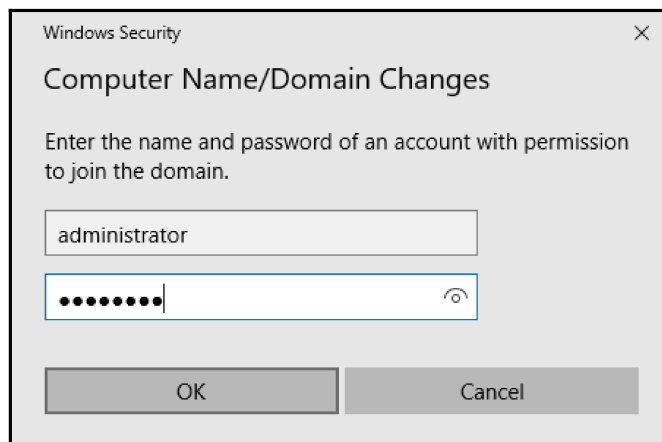
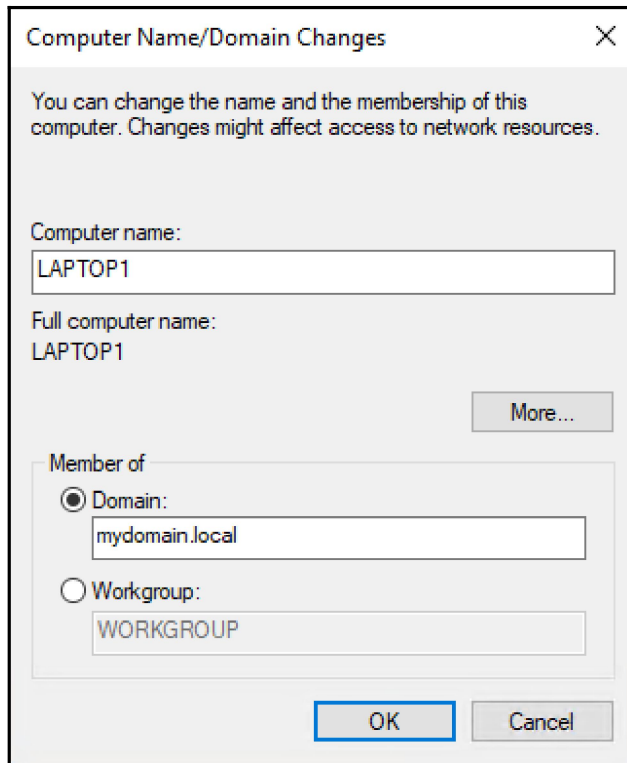
Specify the domain information for this operation

Root domain name:

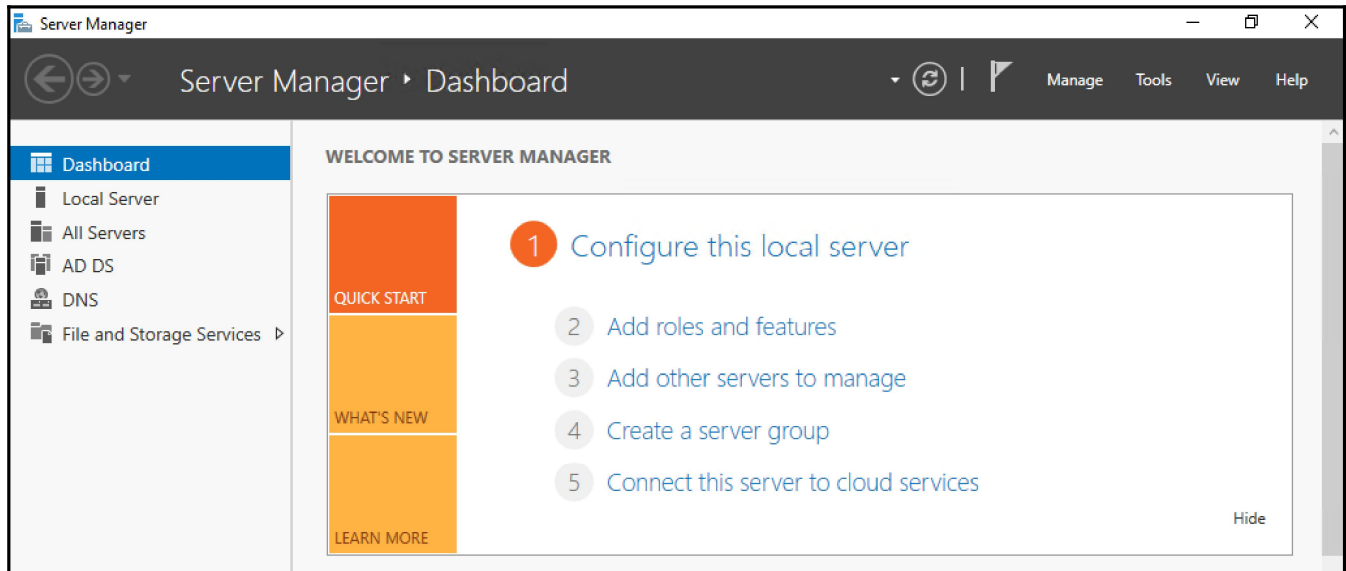


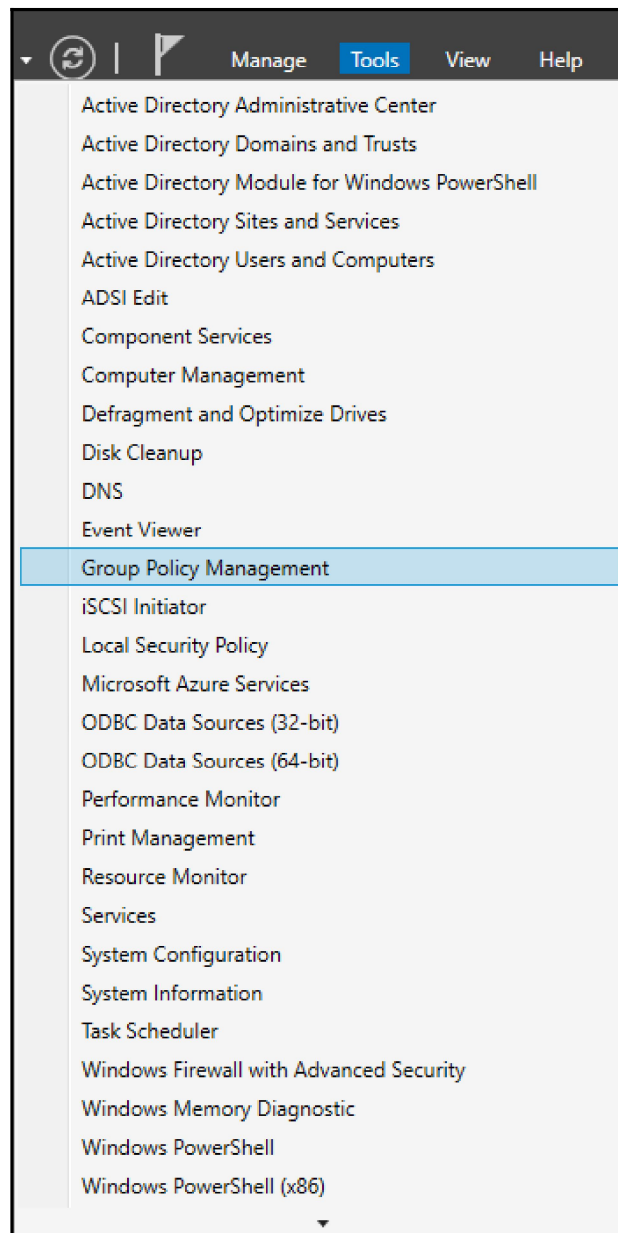


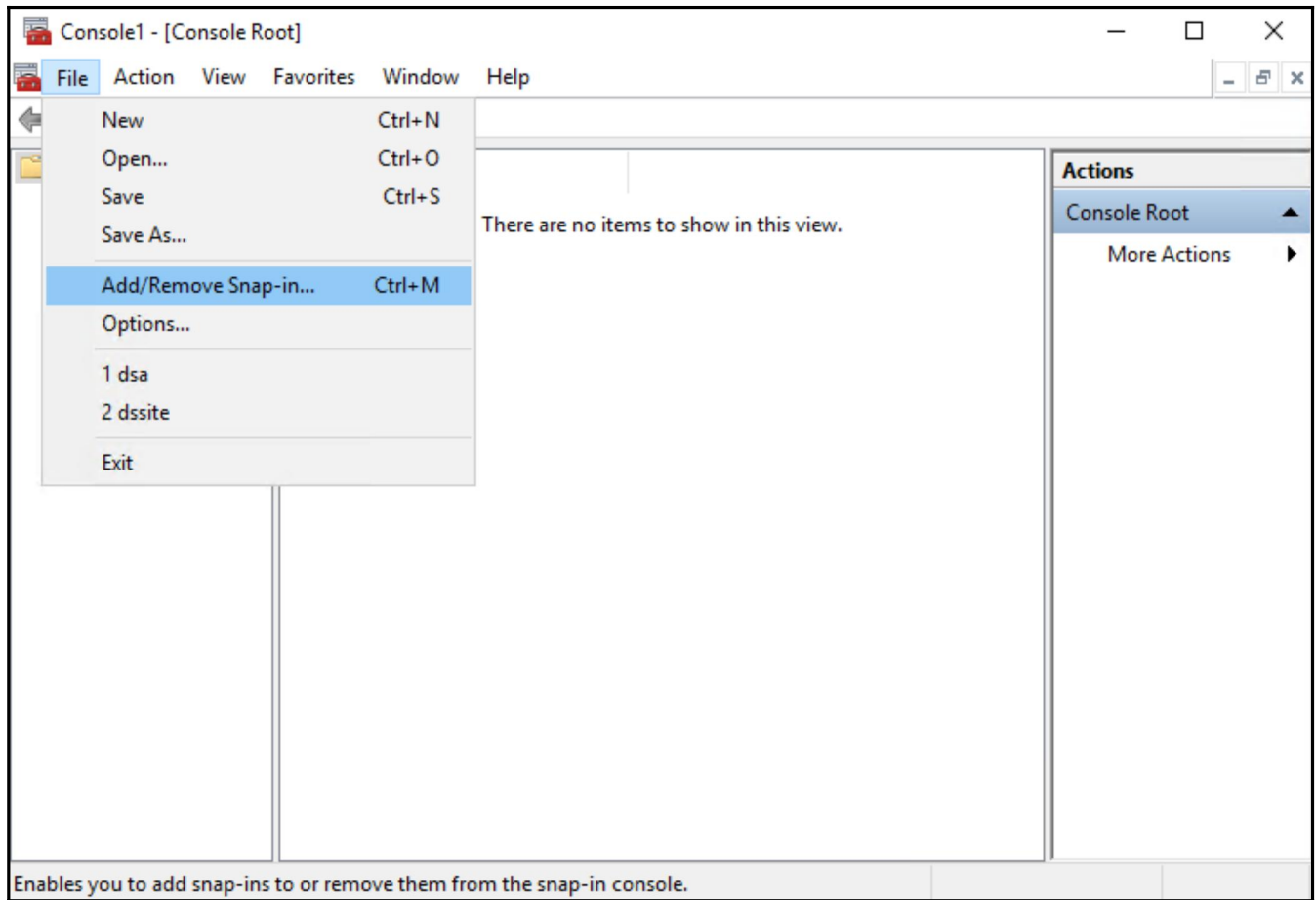


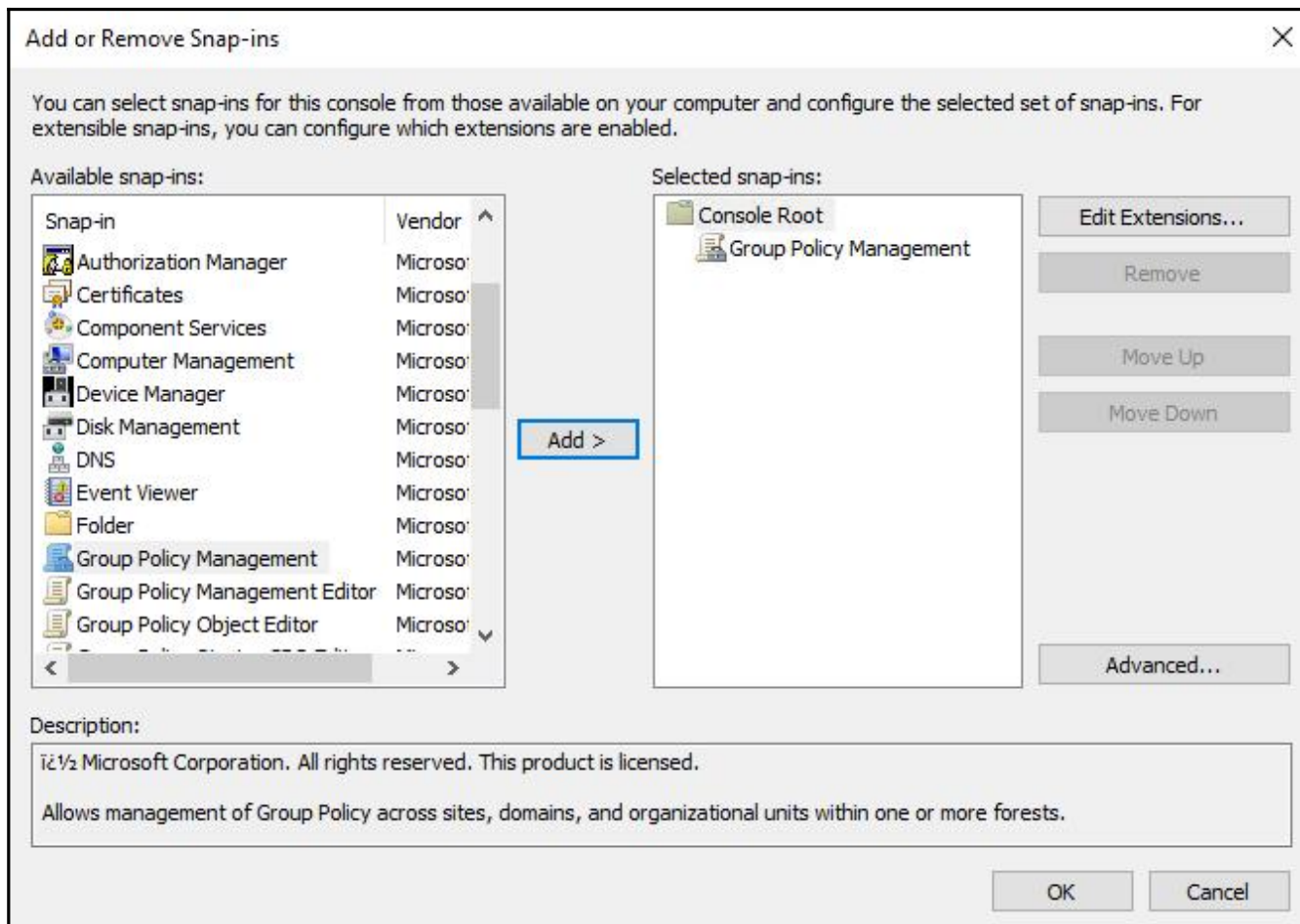


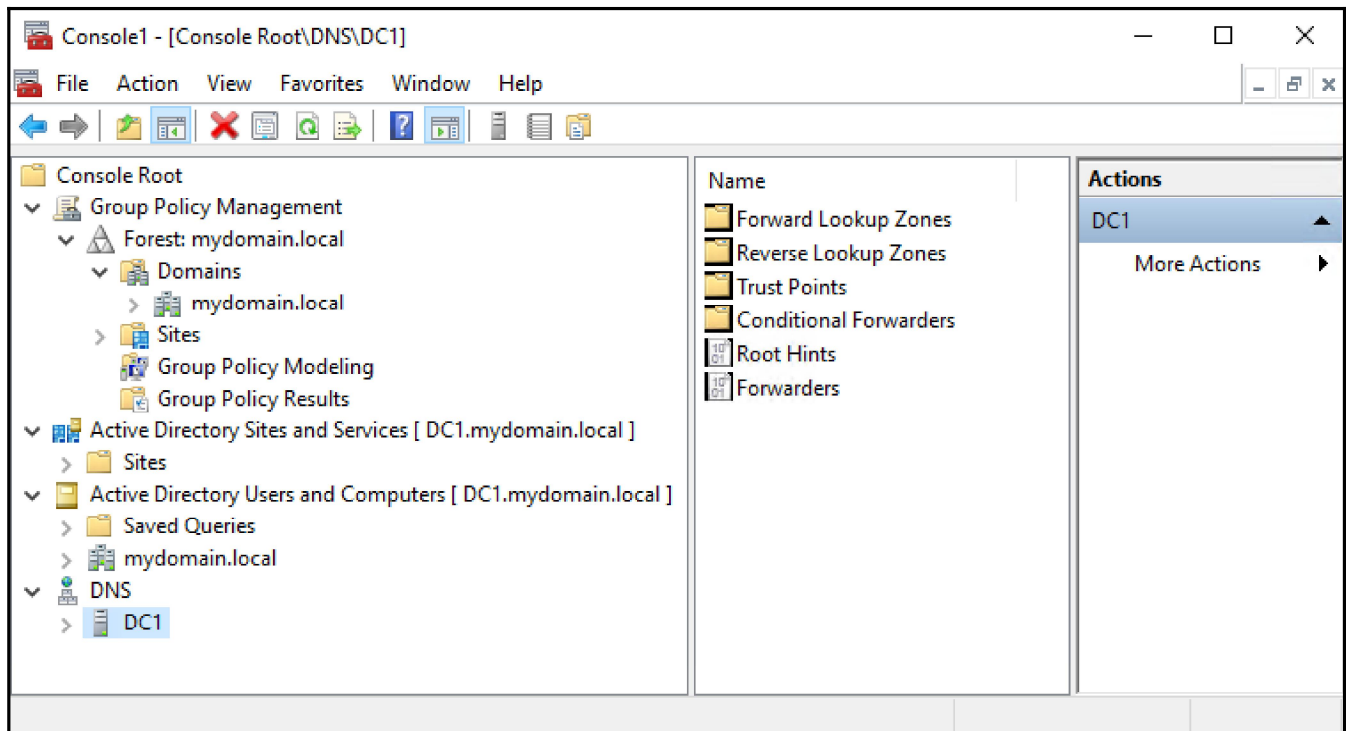
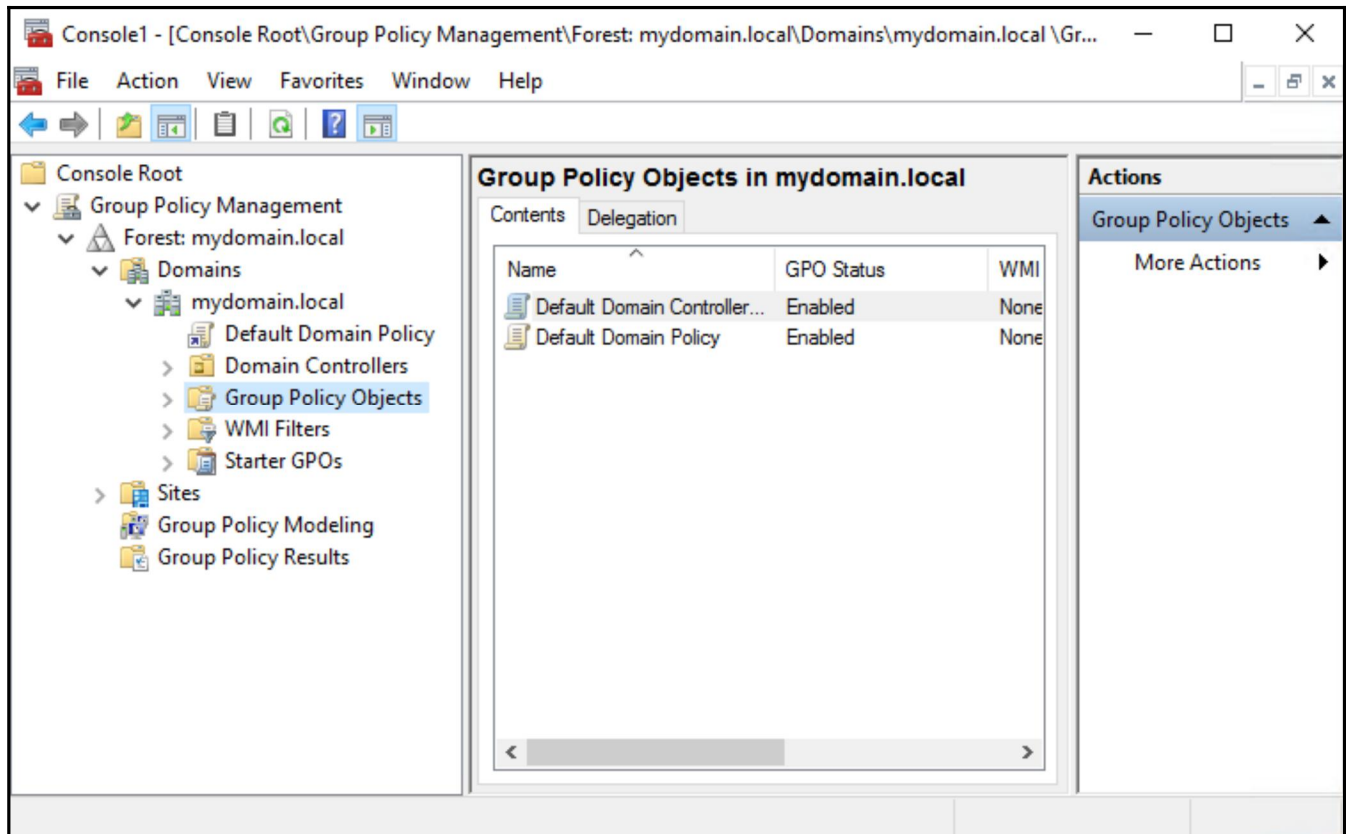
Chapter 02: Group Policy Management Console (GPMC)

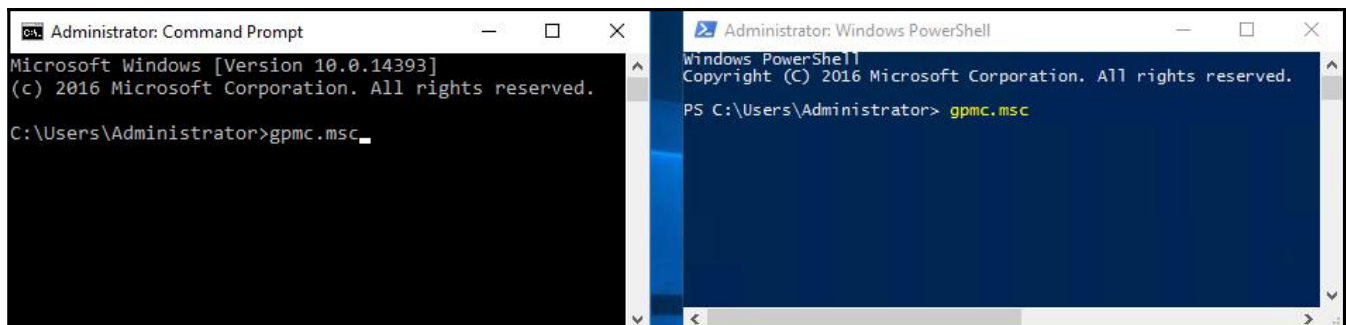
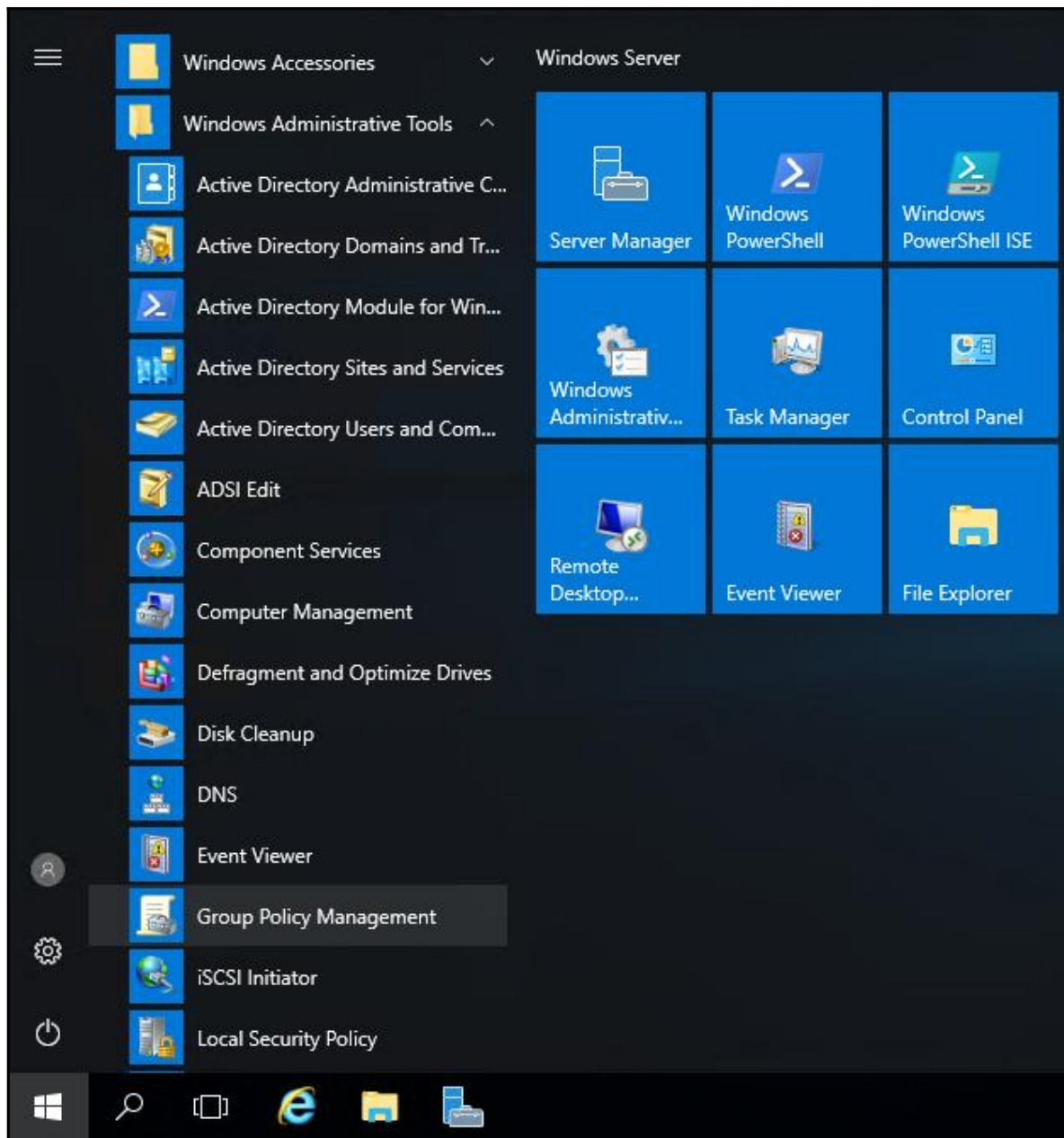


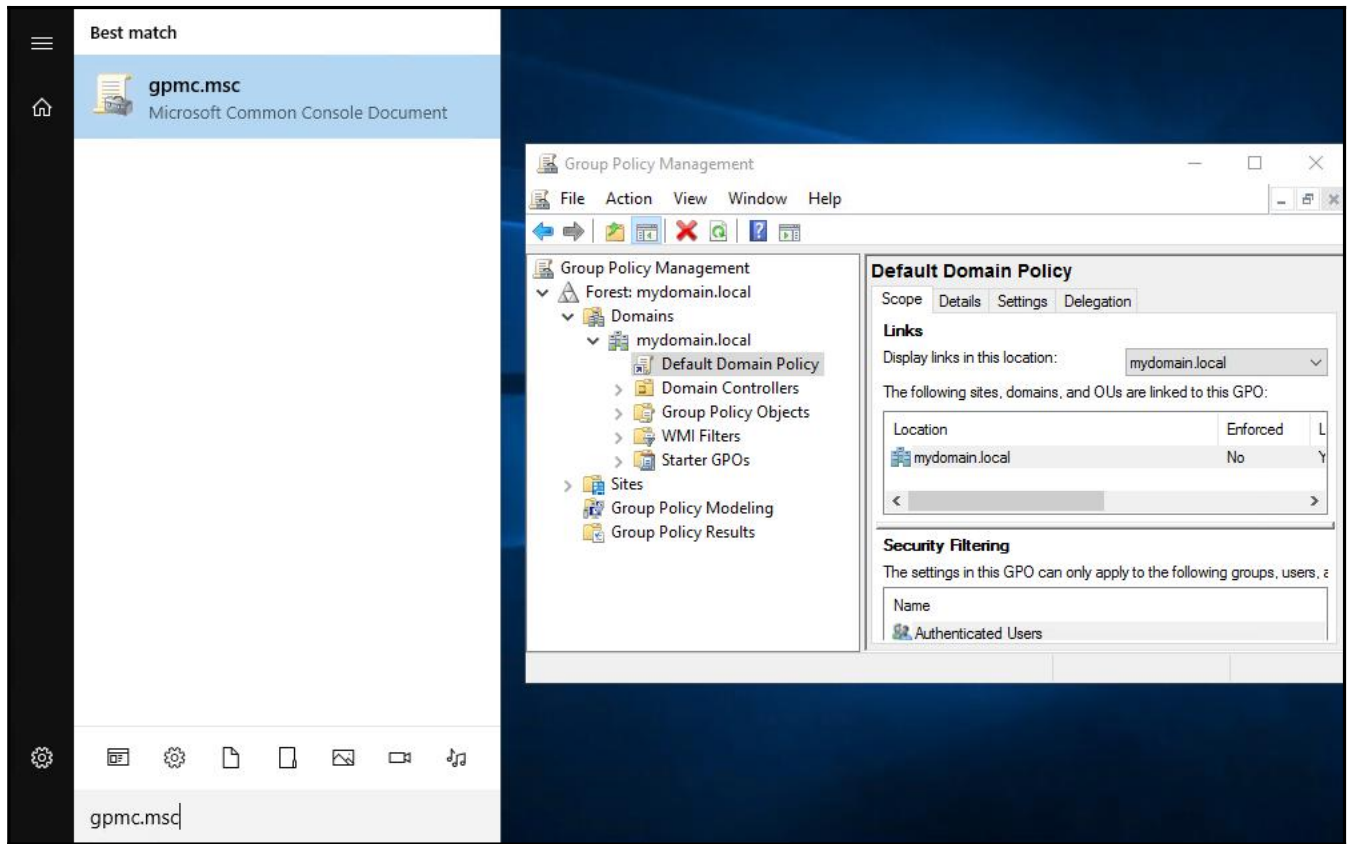


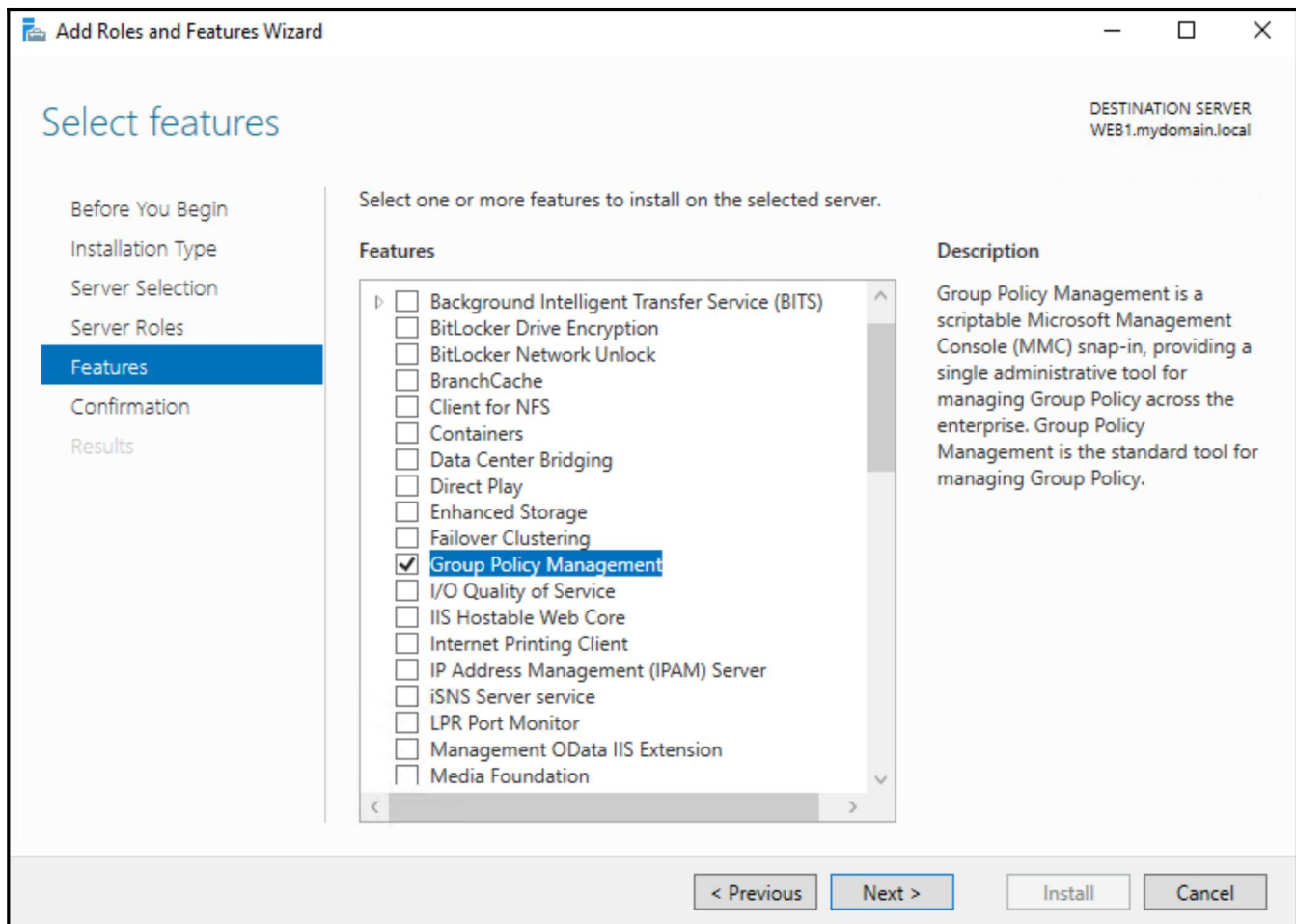


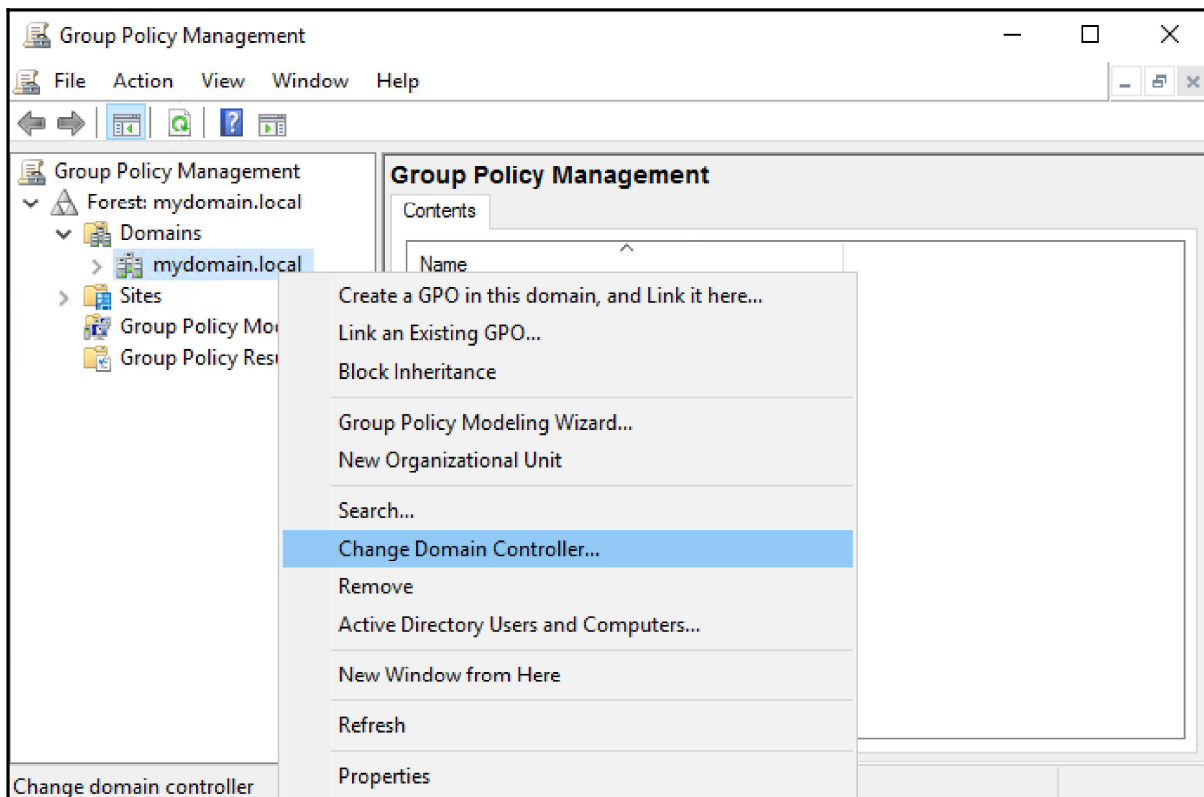
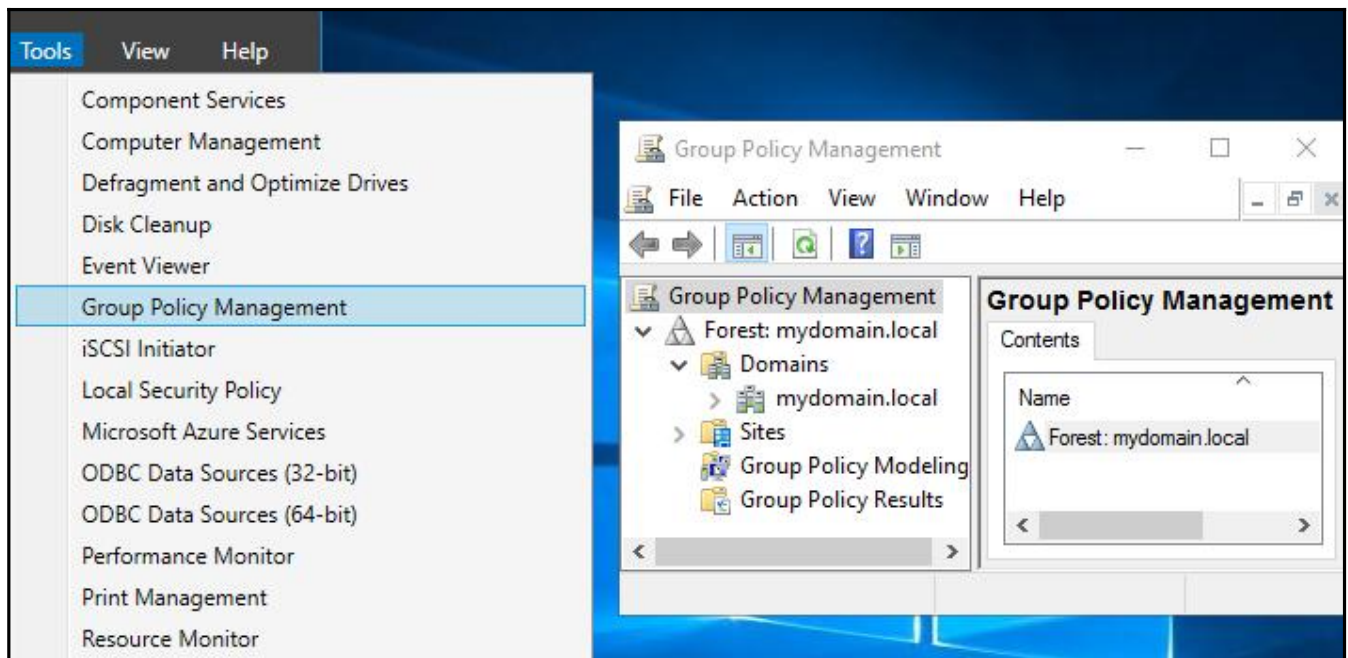


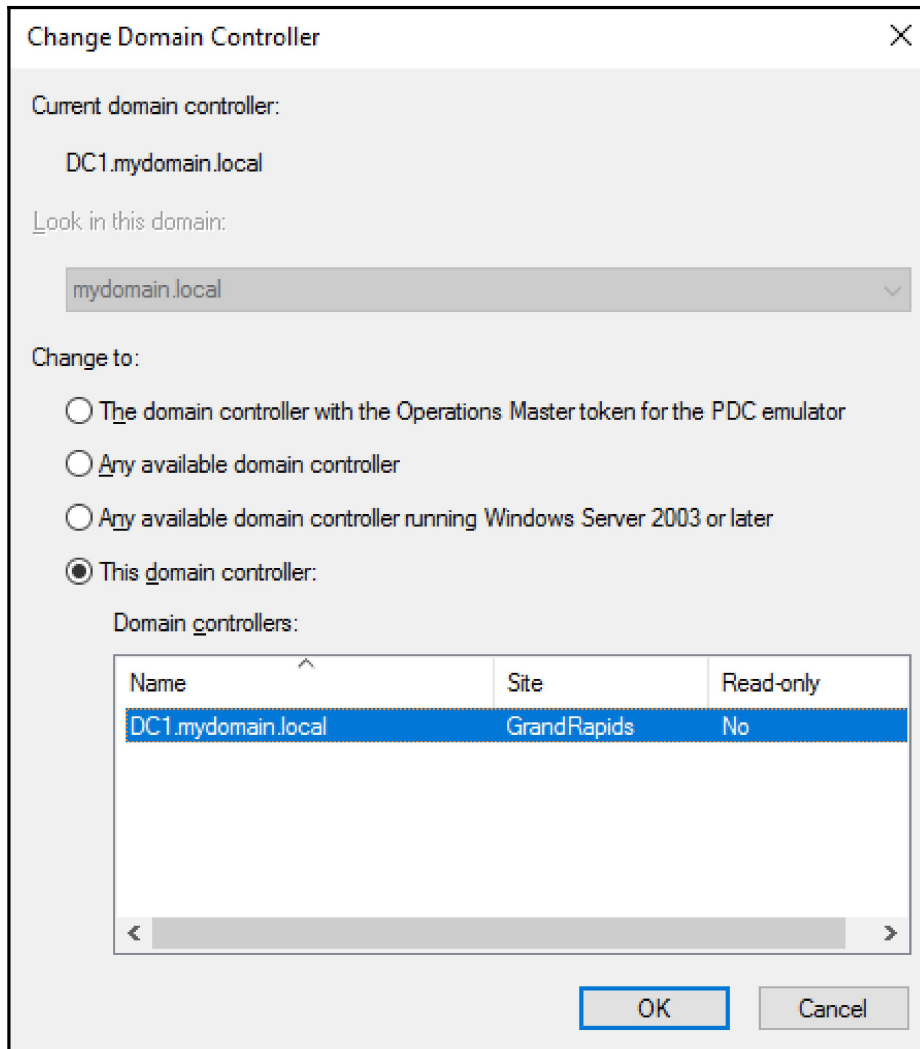












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← → ↻ 🏠 <https://www.microsoft.com/en-us/download/details.e> ☆

Choose the download you want

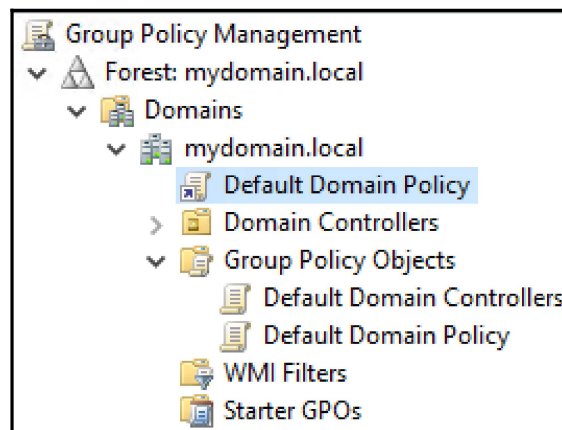
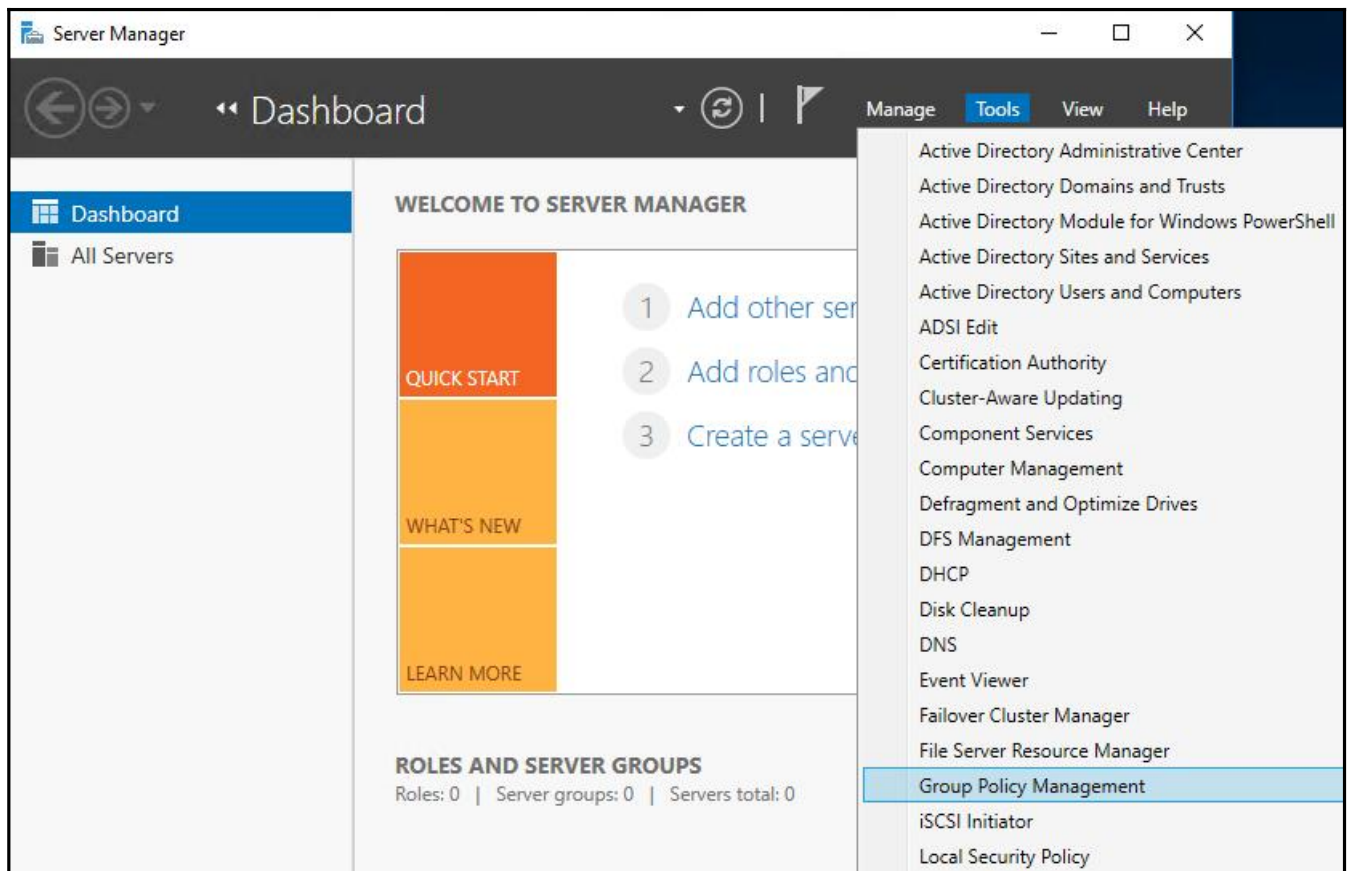
<input type="checkbox"/> File Name	Size
<input type="checkbox"/> WindowsTH-RSAT_WS_1709-x64.msu	94.5 MB
<input type="checkbox"/> WindowsTH-RSAT_WS_1709-x86.msu	69.9 MB
<input checked="" type="checkbox"/> WindowsTH-RSAT_WS_1803-x64.msu	95.1 MB
<input type="checkbox"/> WindowsTH-RSAT_WS_1803-x86.msu	69.9 MB
<input type="checkbox"/> WindowsTH-RSAT_WS2016-x64.msu	92.3 MB
<input type="checkbox"/> WindowsTH-RSAT_WS2016-x86.msu	69.5 MB

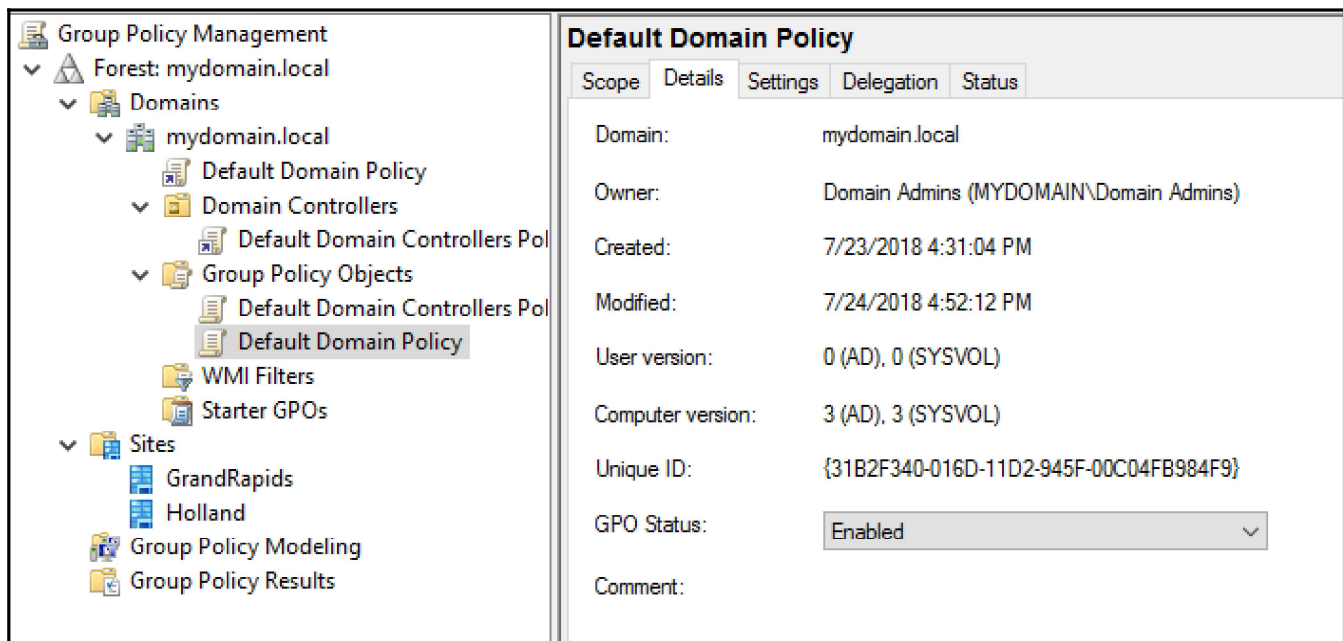
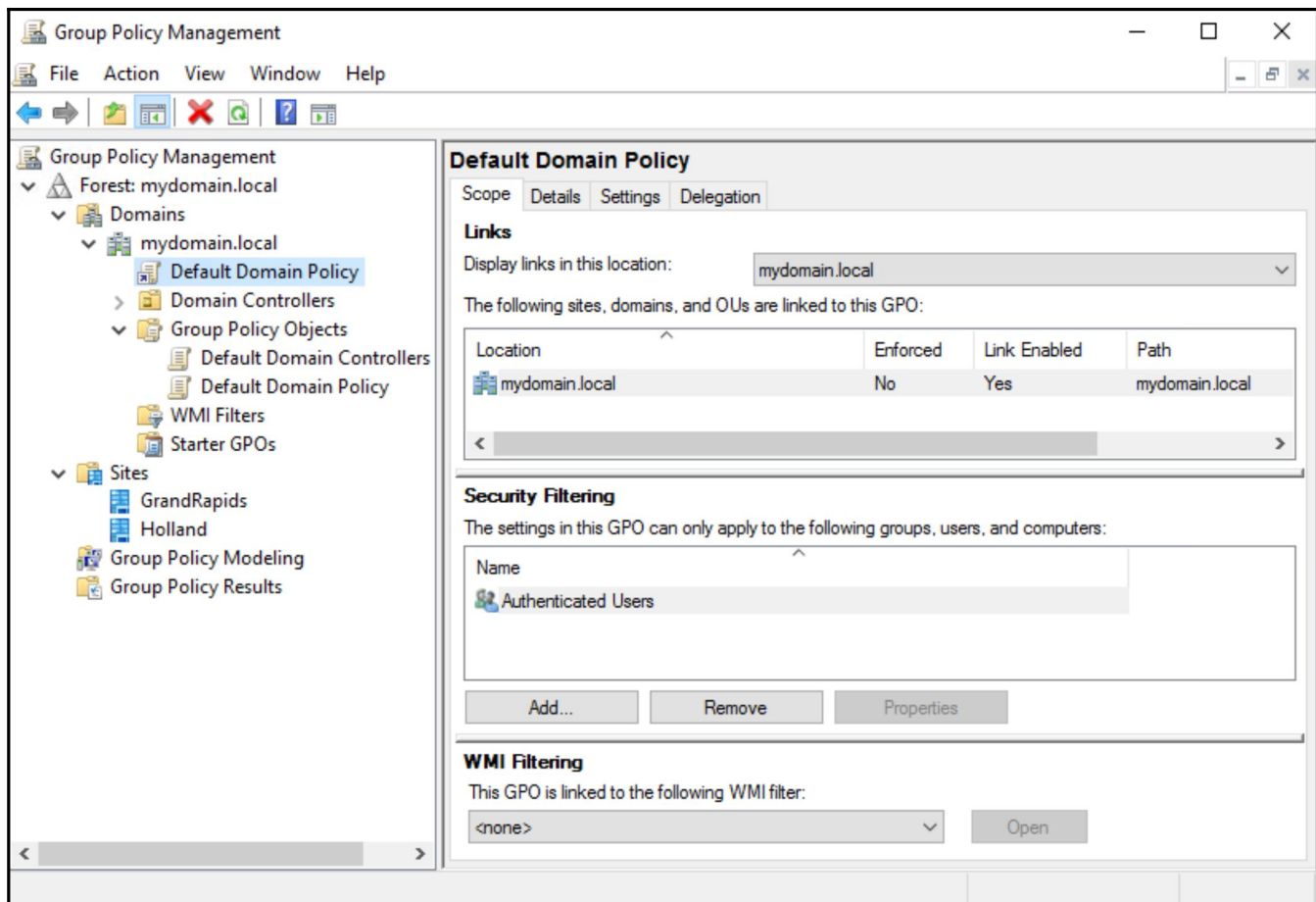
Download Summary:
KBMBGB

1. WindowsTH-RSAT_WS_1803-x64.msu

Total Size: 95.1 MB

Next





Default Domain Policy

Scope Details Settings Delegation Status

Default Domain Policy

Data collected on: 8/15/2018 9:52:31 AM

Computer Configuration (Enabled)

Policies

Windows Settings

Security Settings

Account Policies/Password Policy

Policy	Setting
Enforce password history	24 passwords remembered
Maximum password age	42 days
Minimum password age	1 days
Minimum password length	7 characters
Password must meet complexity requirements	Enabled
Store passwords using reversible encryption	Disabled

Account Policies/Account Lockout Policy

Policy	Setting
Account lockout threshold	0 invalid logon attempts

Default Domain Policy

Scope Details Settings Delegation Status

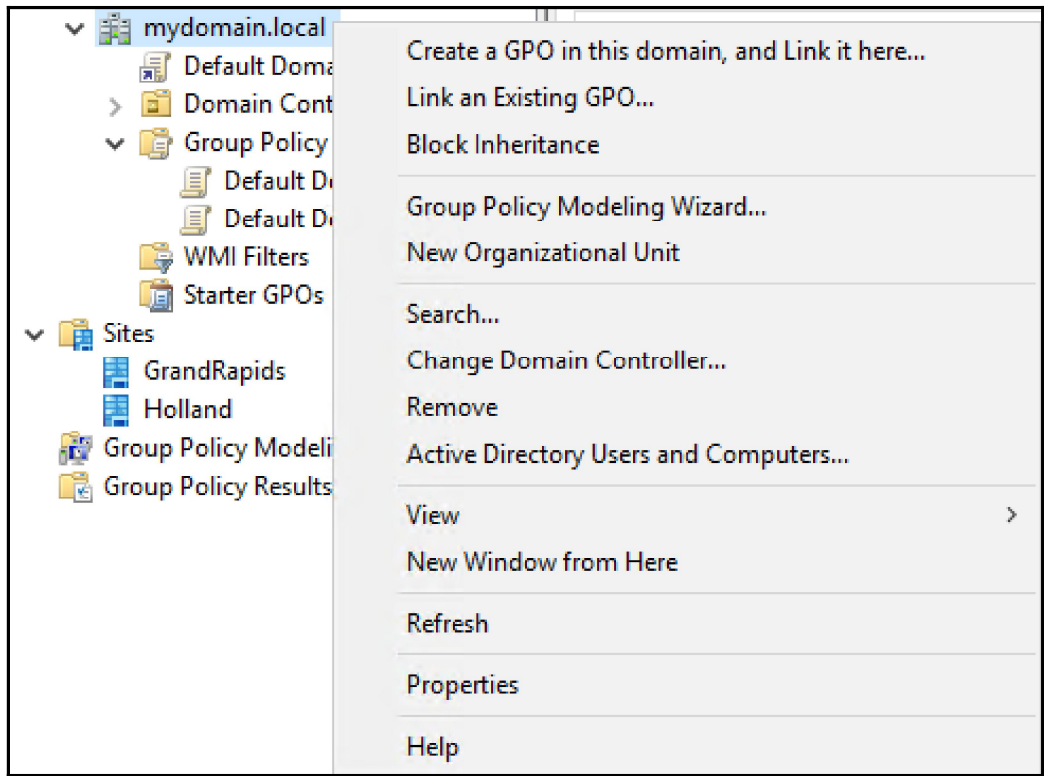
These groups and users have the specified permission for this GPO

Groups and users:

Name	Allowed Permissions	Inherited
Authenticated Users	Read (from Security Filtering)	No
Domain Admins (MYDOMAIN\Domain Admins)	Custom	No
Enterprise Admins (MYDOMAIN\Enterprise Admins)	Custom	No
ENTERPRISE DOMAIN CONTROLLERS	Read	No
SYSTEM	Edit settings, delete, modify security	No

< >

Add... Remove Properties Advanced...



Group Policy Management					
mydomain.local					
Status	Linked Group Policy Objects	Group Policy Inheritance	Delegation		
Link Order	GPO	Enforced	Link Enabled	GPO Status	
1	Default Domain Policy	No	Yes	Enabled	

Chapter 03: Daily Tasks in Group Policy

Default Domain Policy	
Data collected on: 8/15/2018 9:52:31 AM	
Computer Configuration (Enabled)	
Policies	
Windows Settings	
Security Settings	
Account Policies/Password Policy	
Policy	Setting
Enforce password history	24 passwords remembered
Maximum password age	42 days
Minimum password age	1 days
Minimum password length	7 characters
Password must meet complexity requirements	Enabled
Store passwords using reversible encryption	Disabled
Account Policies/Account Lockout Policy	
Policy	Setting
Account lockout threshold	0 invalid logon attempts
Account Policies/Kerberos Policy	
Policy	Setting
Enforce user logon restrictions	Enabled
Maximum lifetime for service ticket	600 minutes
Maximum lifetime for user ticket	10 hours
Maximum lifetime for user ticket renewal	7 days
Maximum tolerance for computer clock synchronization	5 minutes


Default Domain Policy

Scope **Details** Settings Delegation Status

Links

Display links in this location:

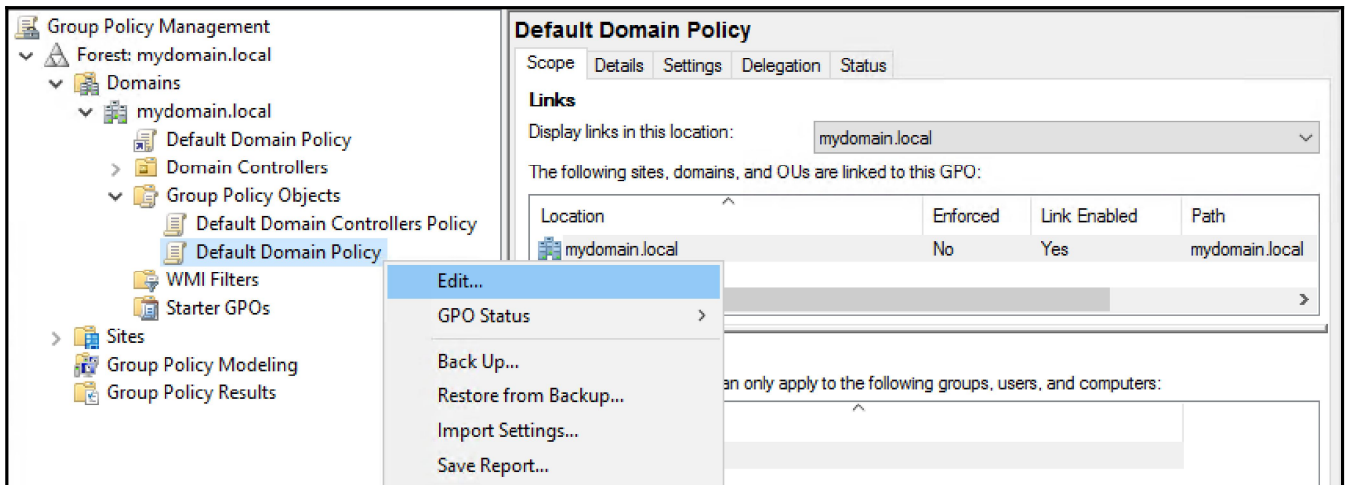
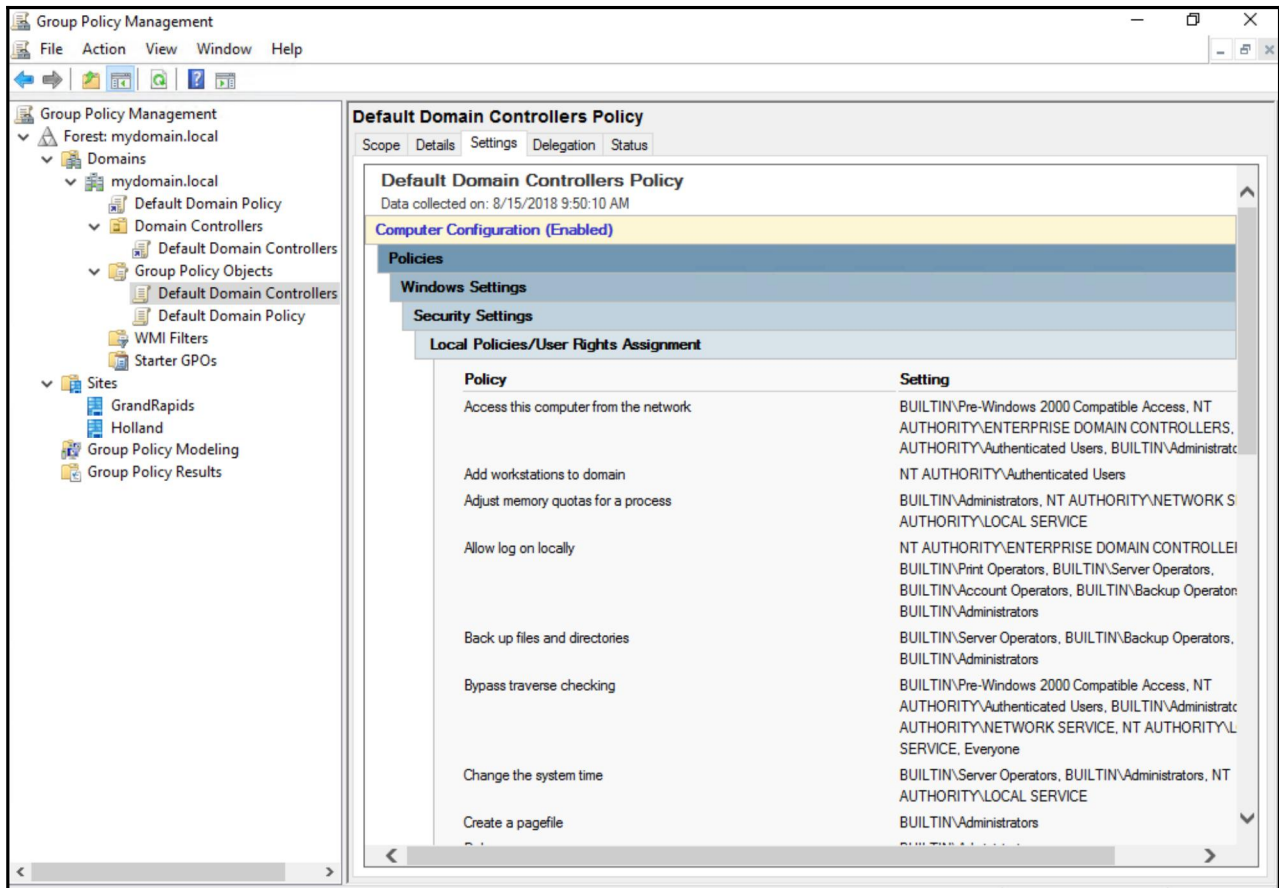
The following sites, domains, and OUs are linked to this GPO:

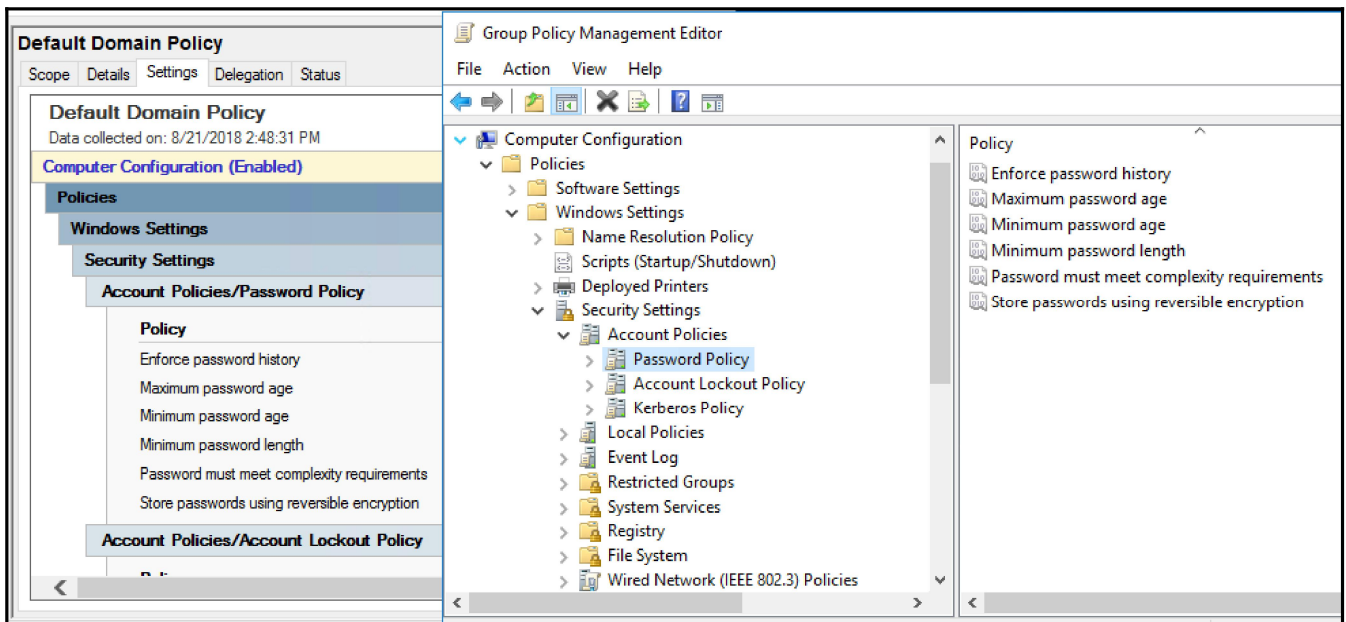
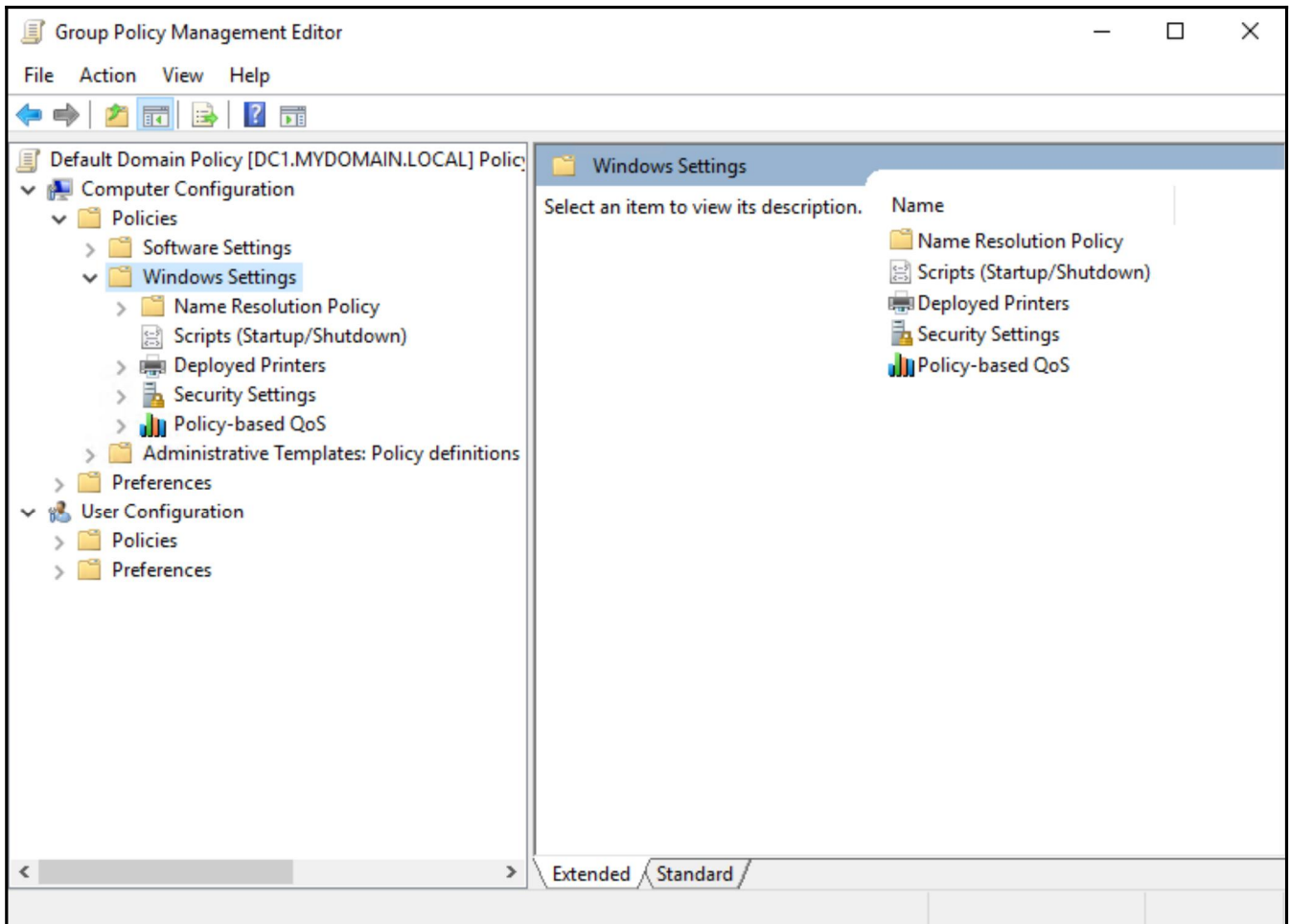
Location	Enforced	Link Enabled	Path
 mydomain.local	No	Yes	mydomain.local

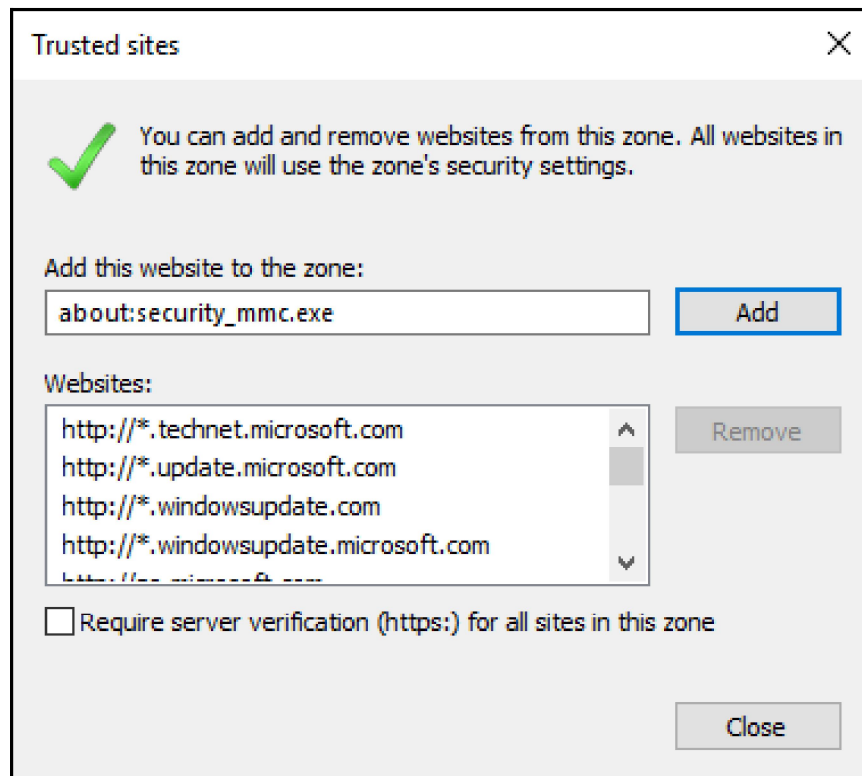
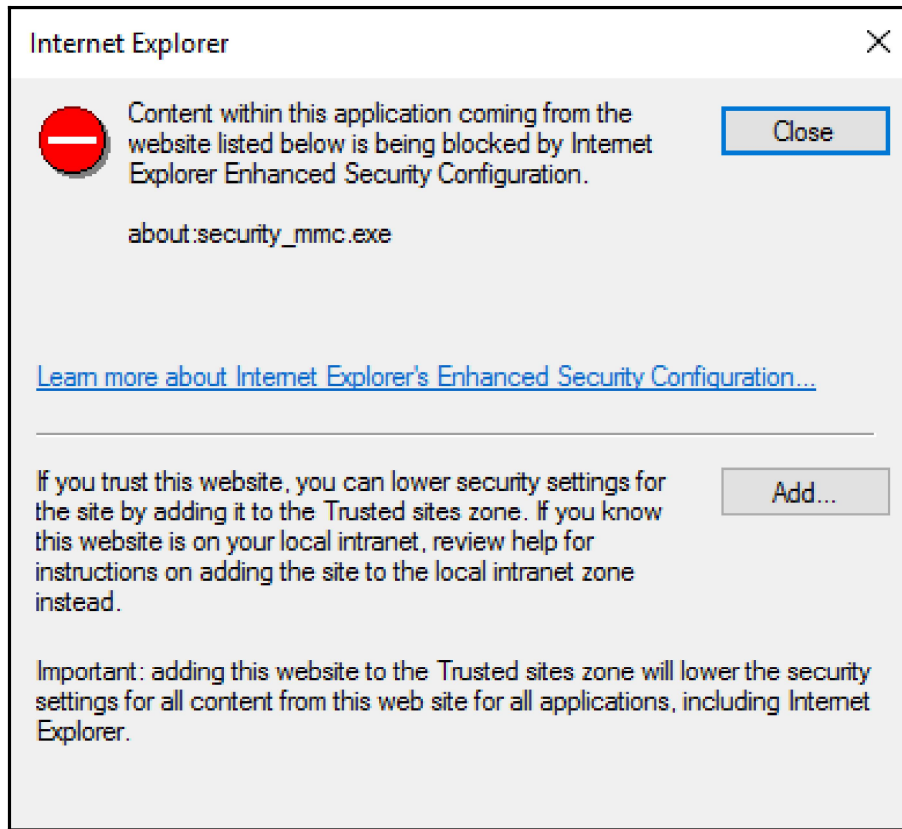
Security Filtering

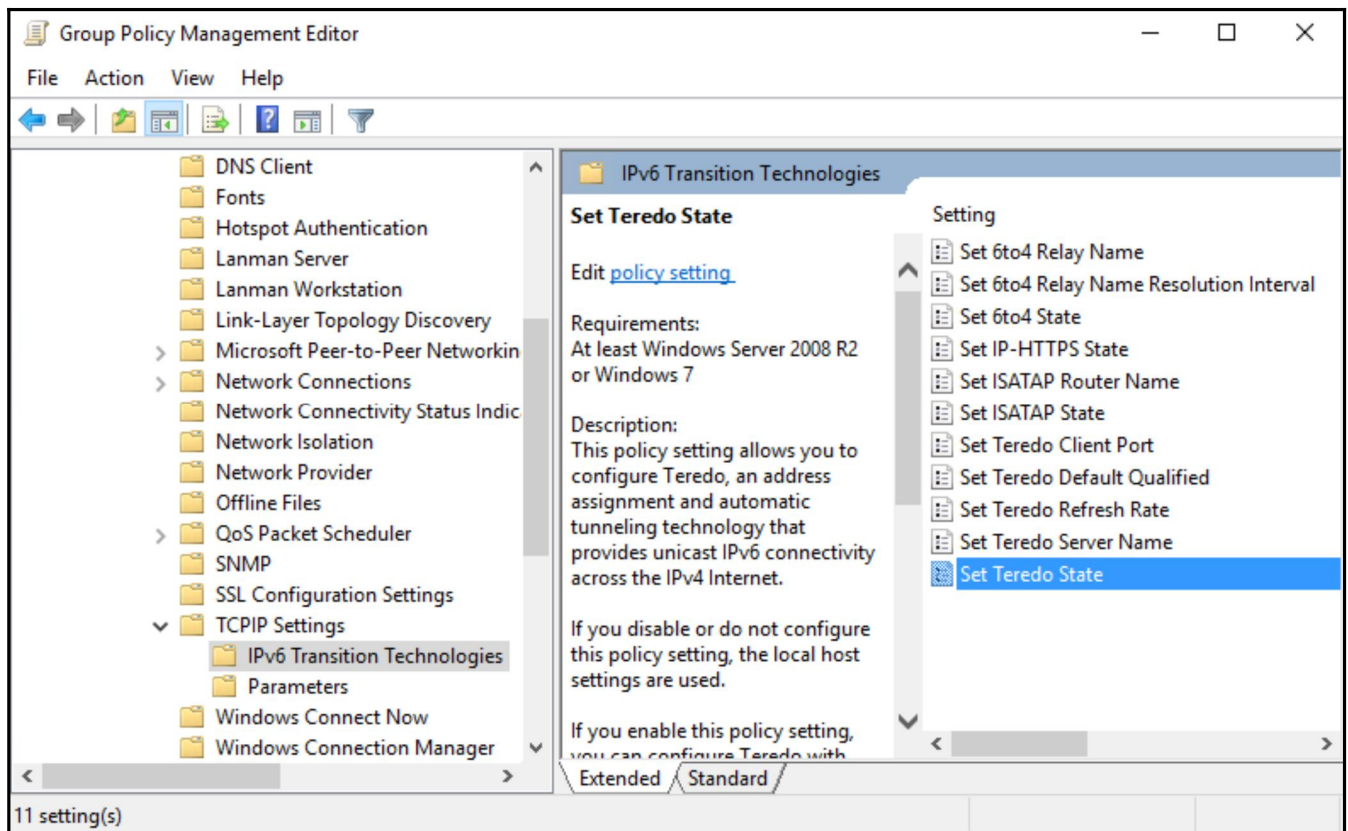
The settings in this GPO can only apply to the following groups, users, and computers:

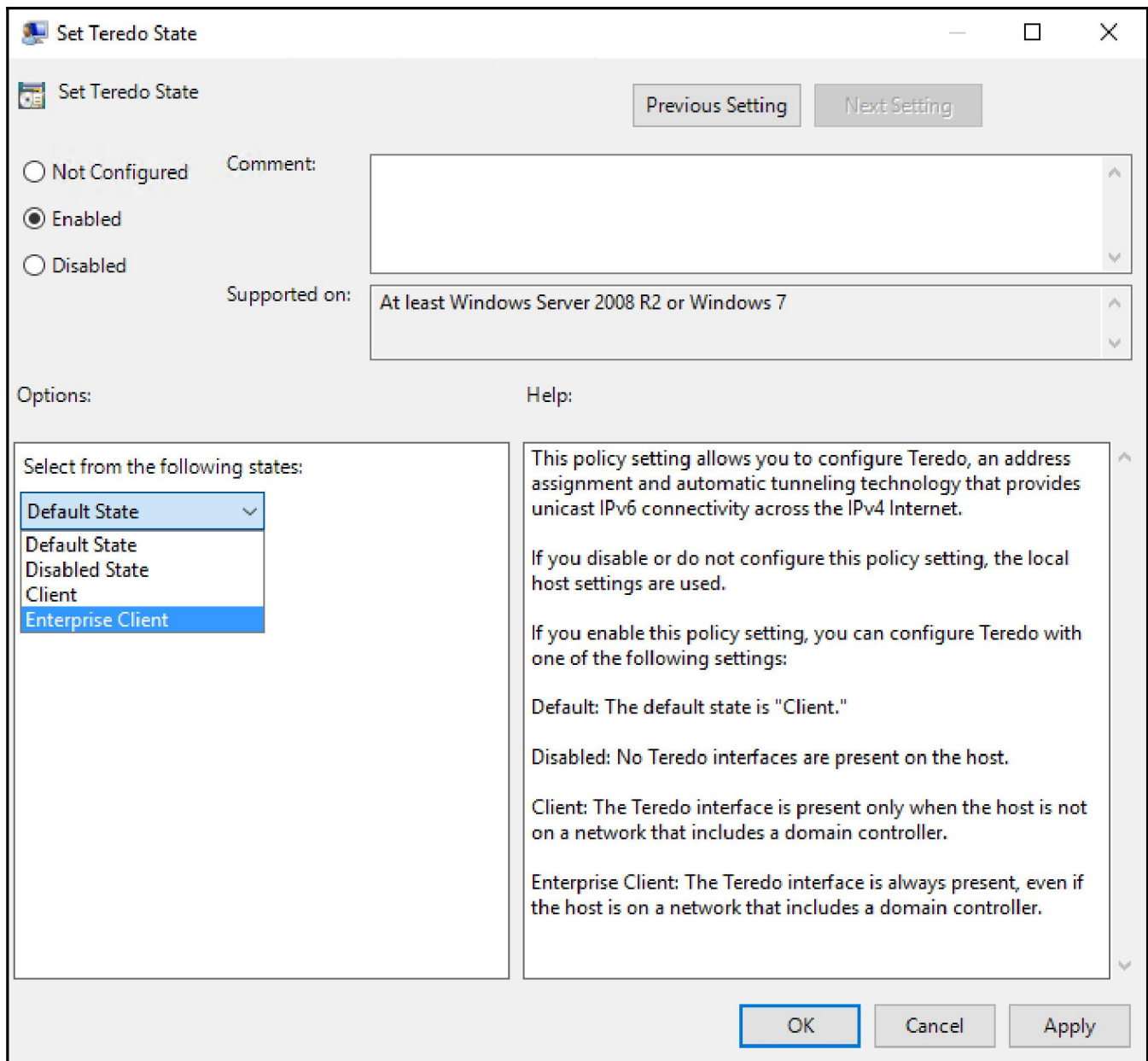
Name
 Authenticated Users

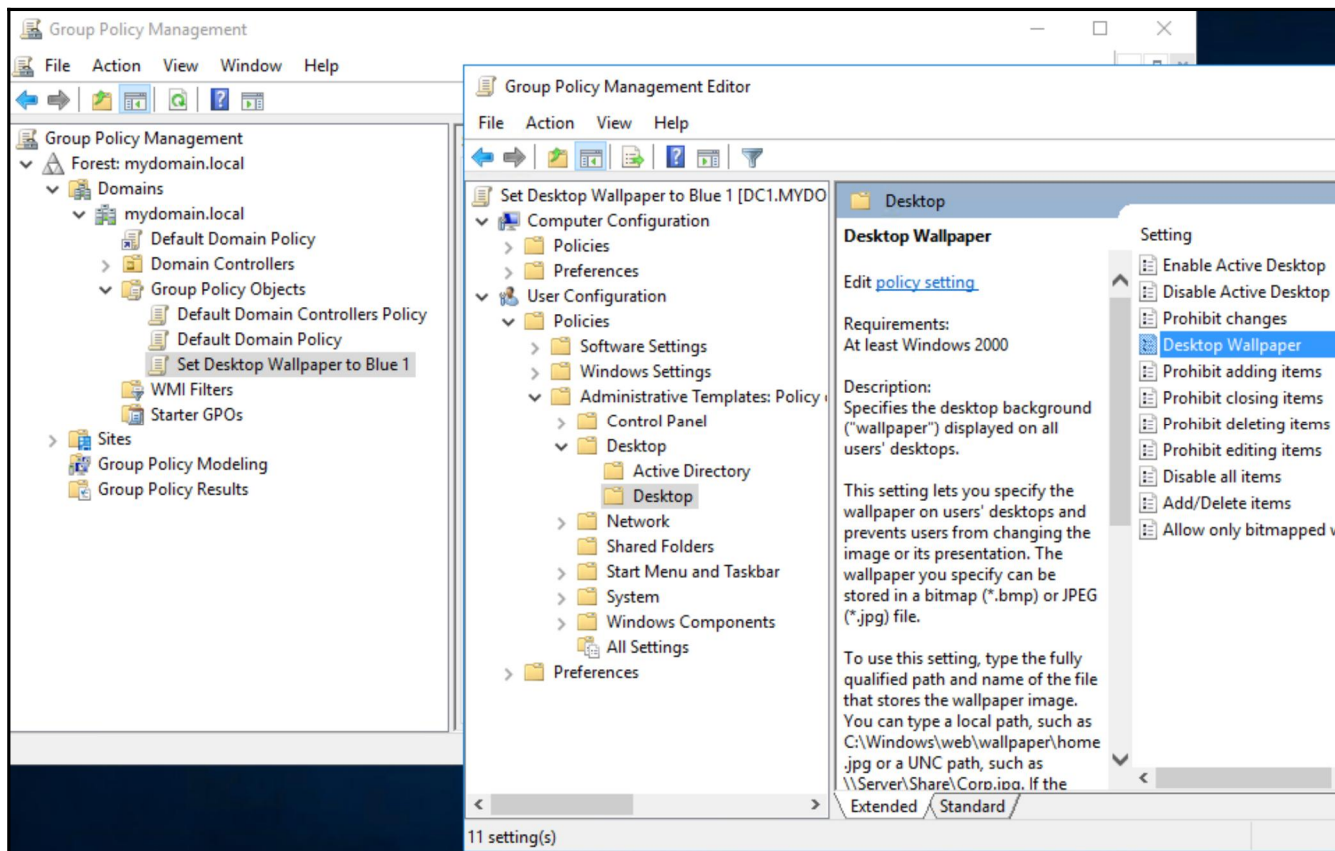
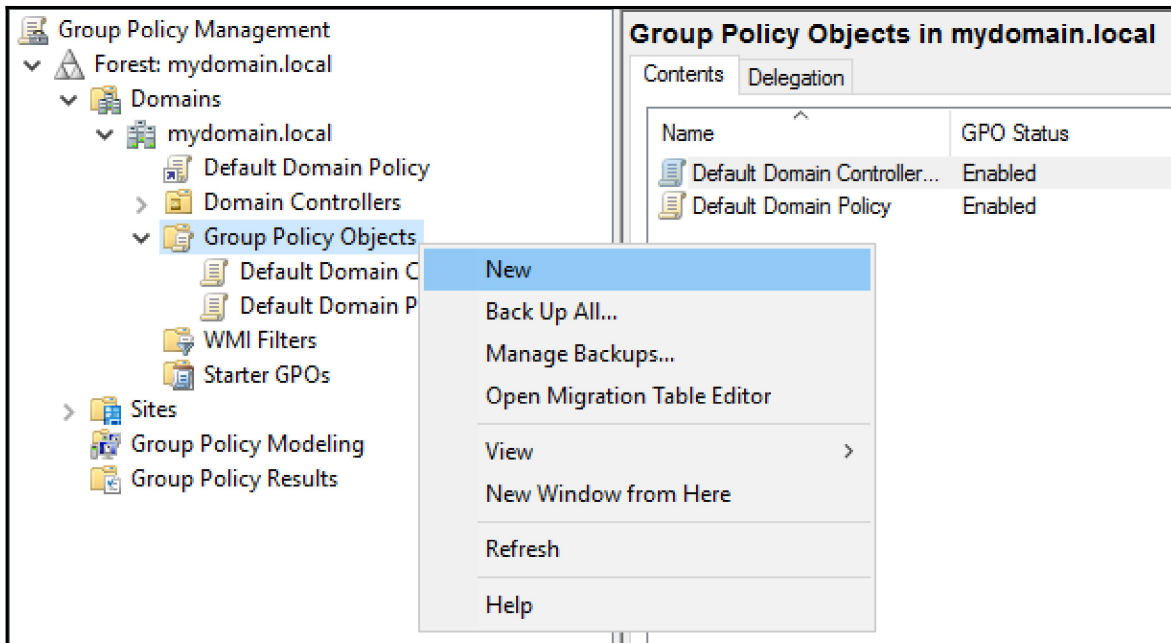


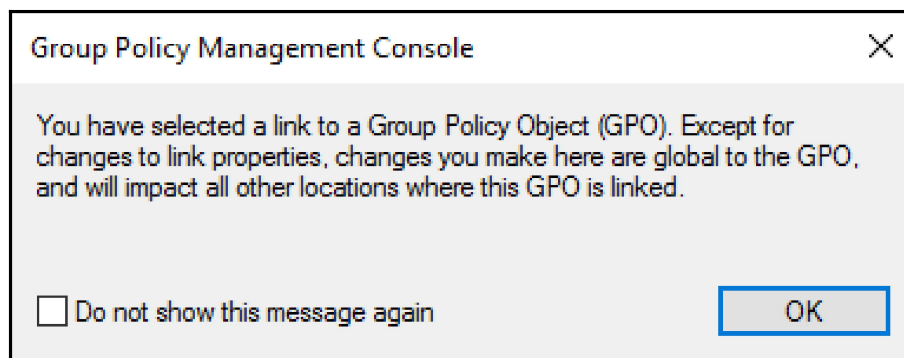
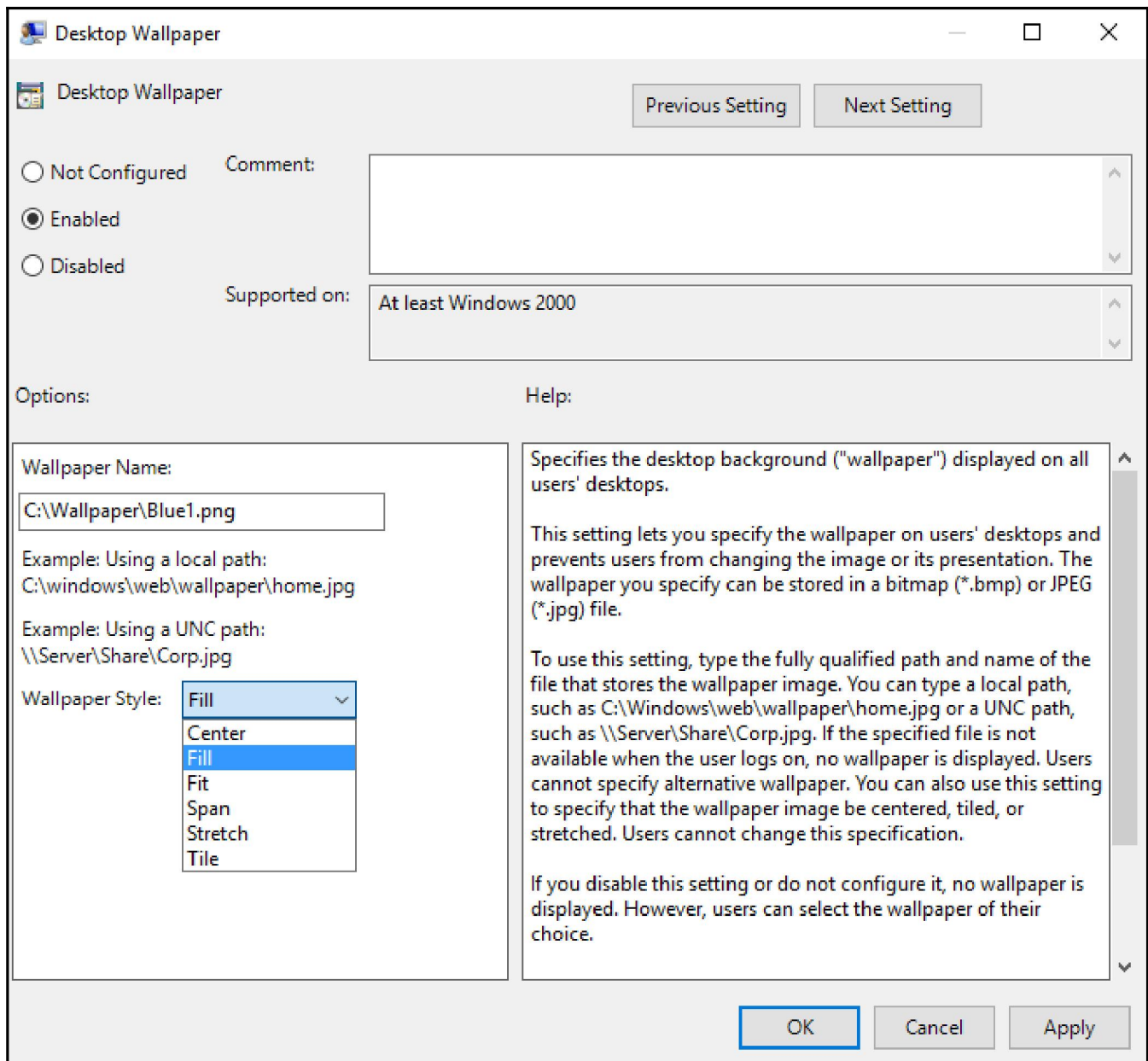


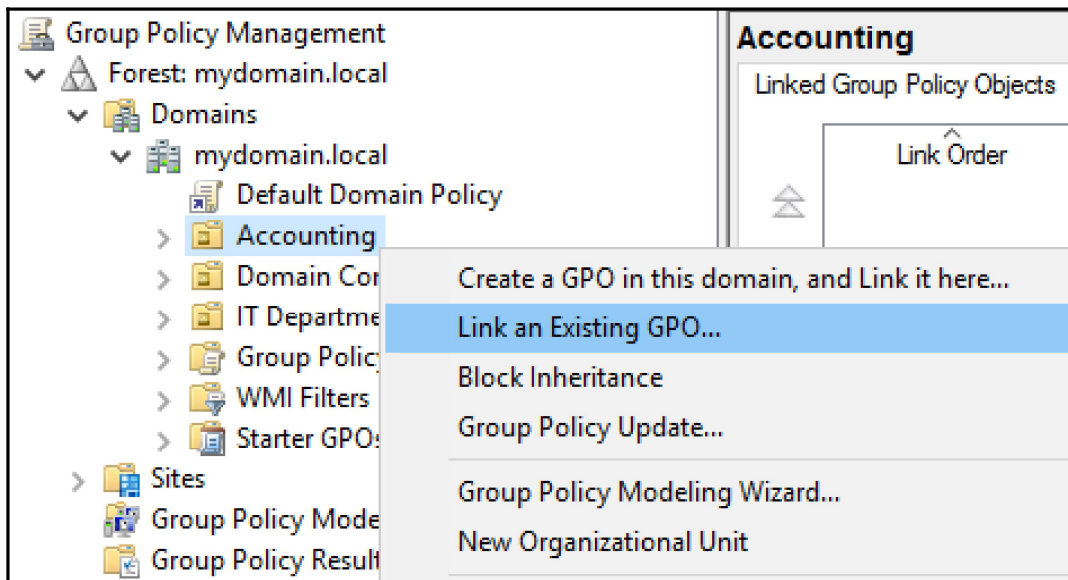
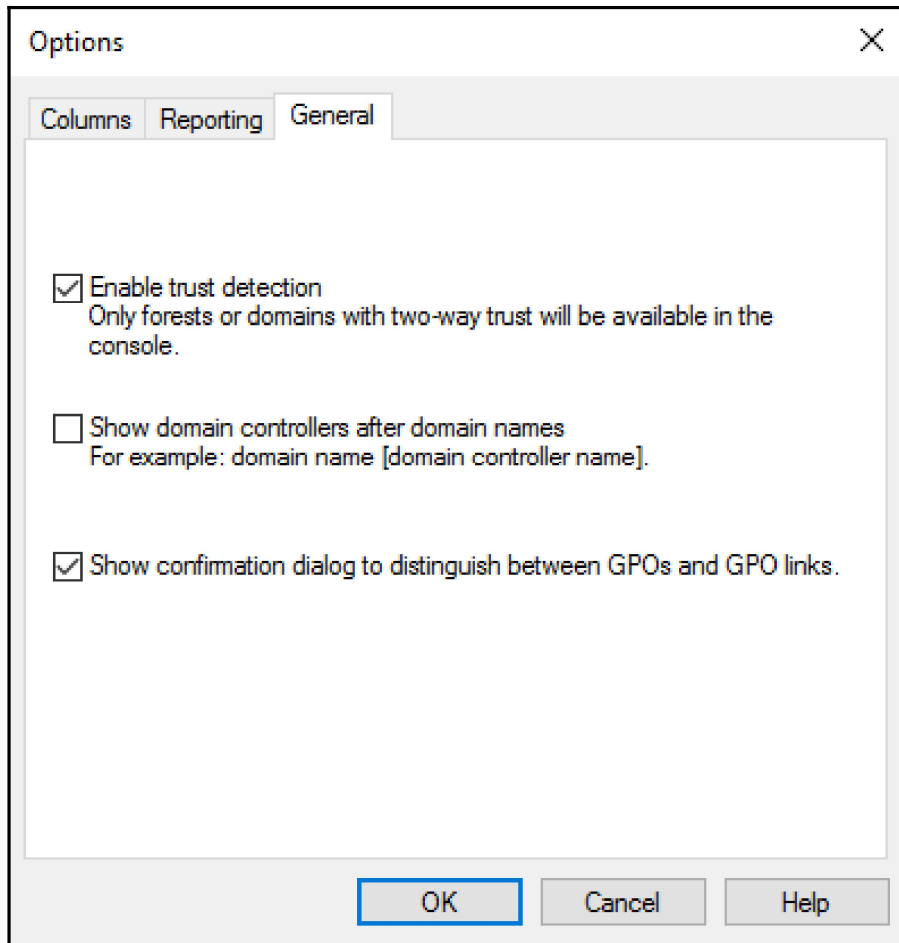


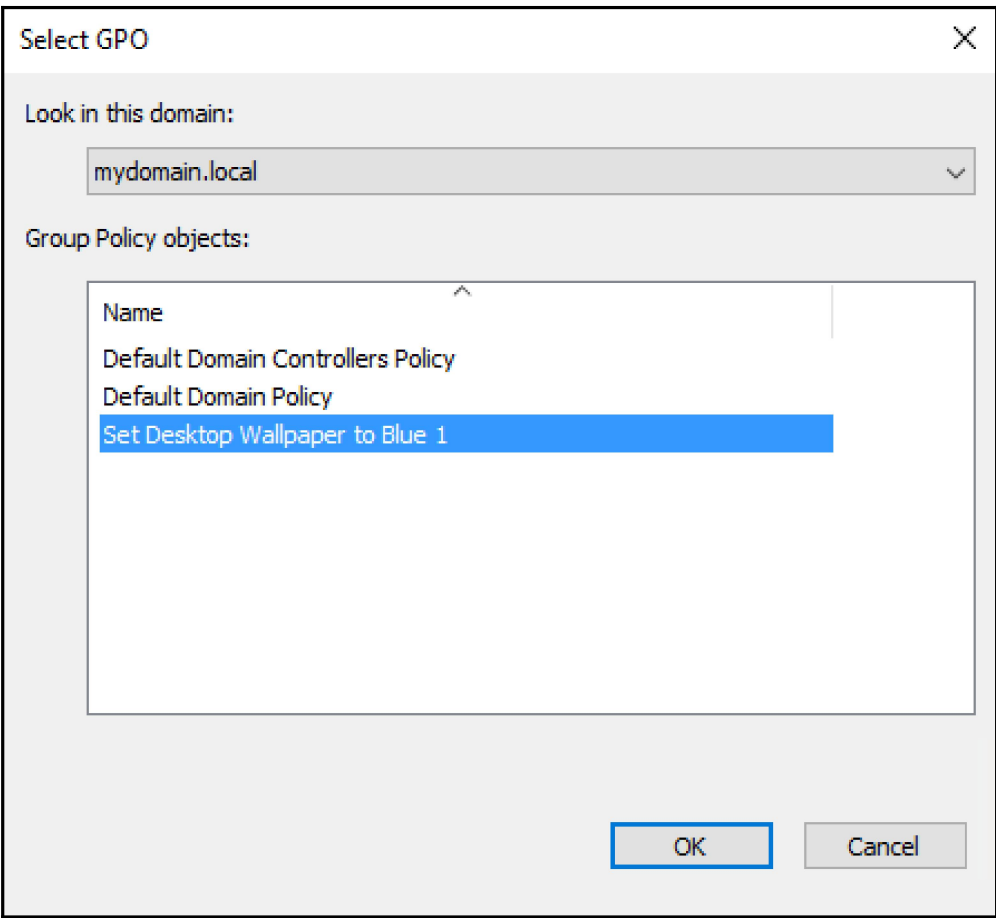


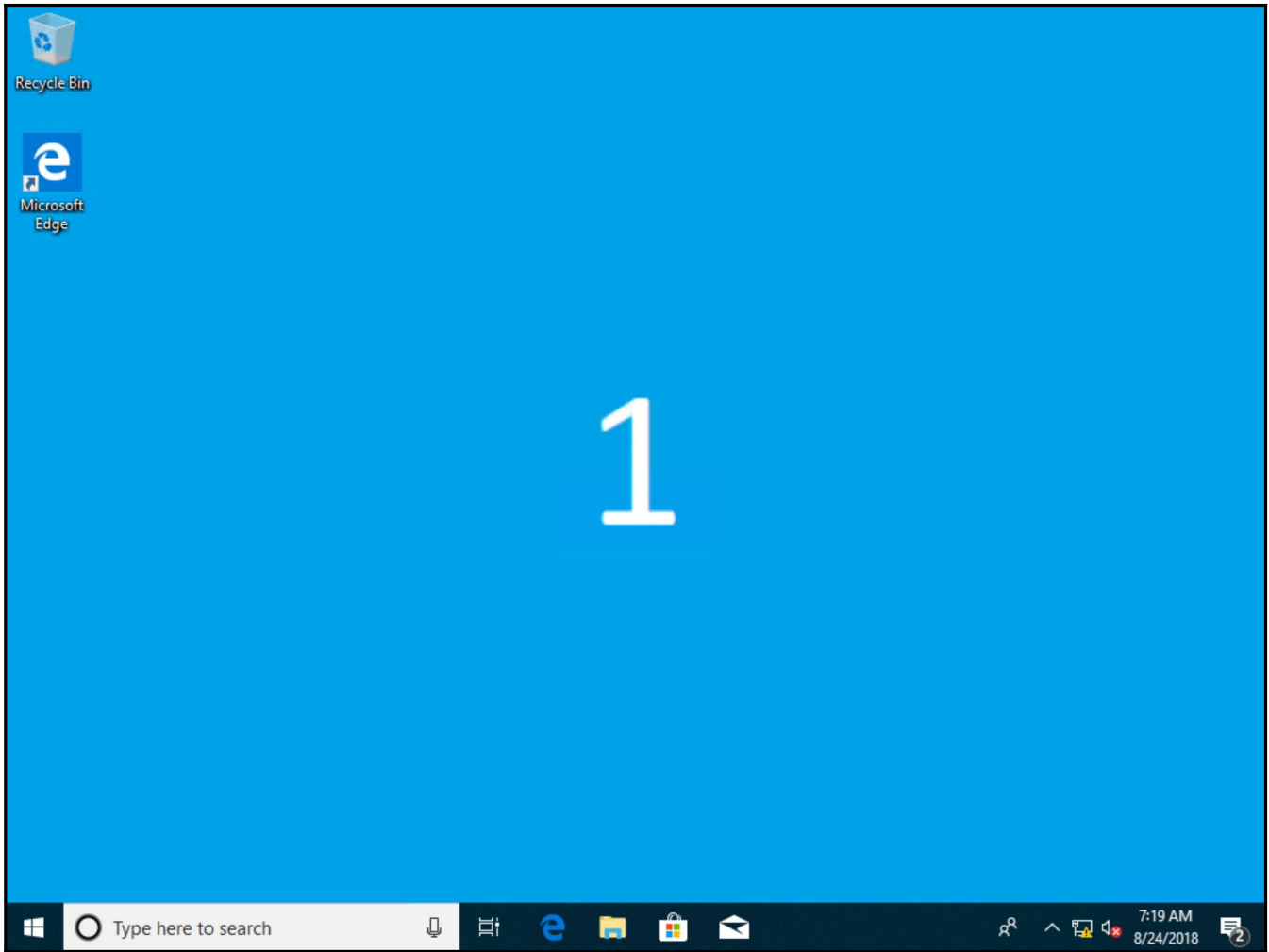












Group Policy Management

- Forest: mydomain.local
 - Domains
 - mydomain.local
 - Default Domain Policy
 - Accounting
 - Domain Controllers
 - IT Department
 - Set Wallpaper to Unicorns**
 - IT Computers
 - IT Users

Set Wallpaper to Unicorns

Scope Details Settings Delegation

Links

Display links in this location:

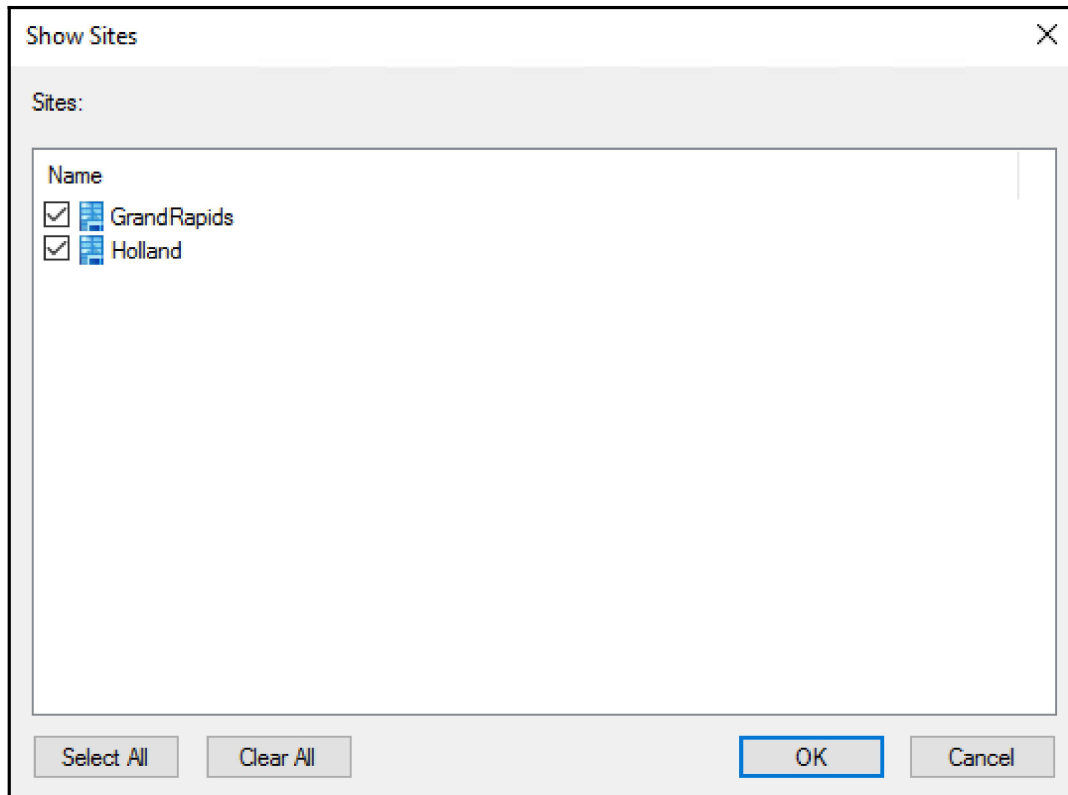
mydomain.local

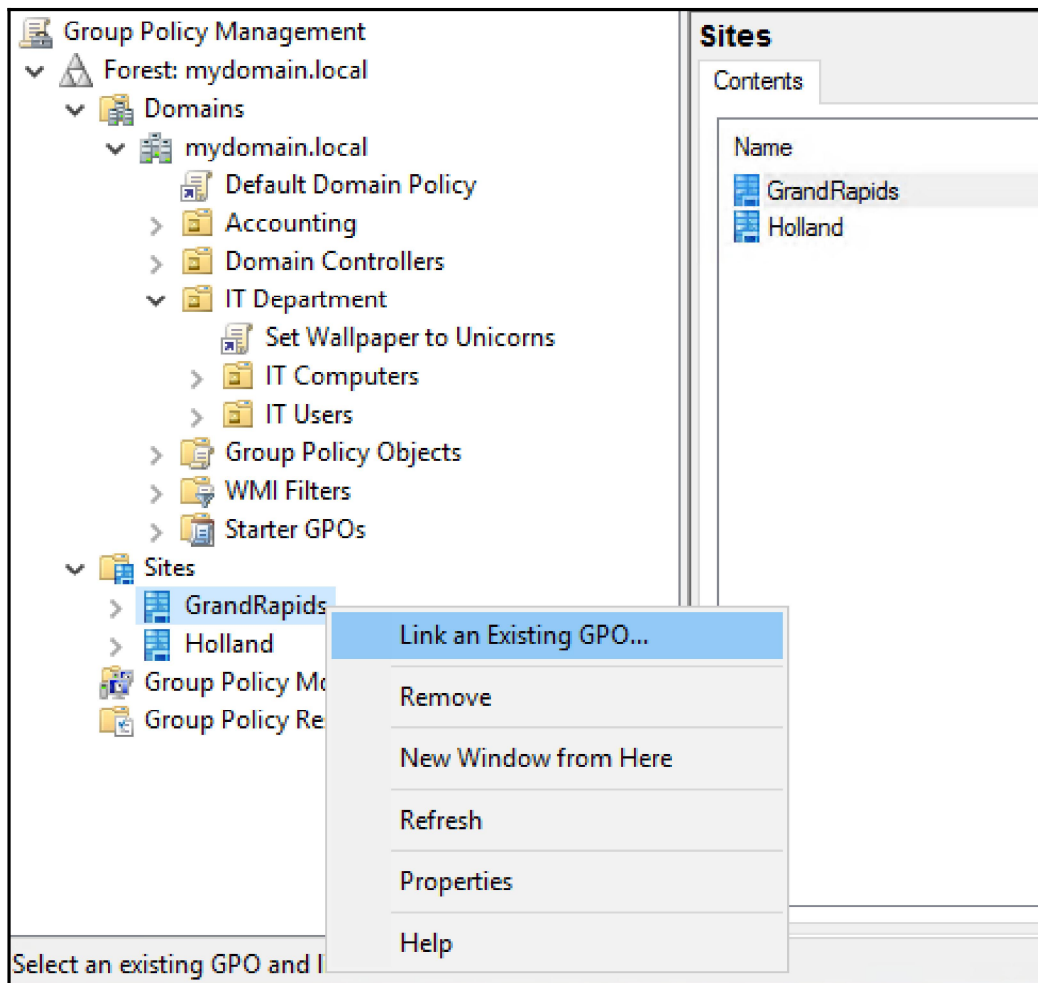
The following sites, domains, and OUs are linked to this GPO:

Location	Enforced	Link Enabled	Path
IT Department	No	Yes	mydomain.local/IT

<

>





Group Policy Management

- Forest: mydomain.local
 - Domains
 - mydomain.local
 - Default Domain Policy
 - Accounting
 - Domain Controllers
 - IT Department
 - Set Wallpaper to Unicorns**
 - IT Computers
 - IT Users
 - Group Policy Objects
 - Default Domain Controller
 - Default Domain Policy
 - Set Desktop Wallpaper to Blue 1
 - Set Wallpaper to Unicorns
 - WMI Filters
 - Starter GPOs
 - Sites
 - GrandRapids
 - Holland
 - Group Policy Modeling

Set Wallpaper to Unicorns

Scope: Details Settings Delegation

Links

Display links in this location: mydomain.local

The following sites, domains, and OUs are linked to this GPO:

Location	Enforced	Link Enabled
IT Department	No	No

Context Menu:

- Edit...
- Enforced
- Link Enabled
- Save Report...
- View >
- New Window from Here
- Delete**
- Rename
- Refresh
- Help

Set Desktop Wallpaper to Blue 1

Scope: Details Settings Delegation

Links

Display links in this location: mydomain.local

The following sites, domains, and OUs are linked to this GPO:

Location	Enforced	Link Enabled
Accounting	No	No

```
C:\Windows\system32\cmd.exe

C:\>gpupdate /force
Updating policy...

Computer Policy update has completed successfully.
User Policy update has completed successfully.

C:\>_
```

```
Administrator: Command Prompt

C:\>gpreresult /r /scope:computer

Microsoft (R) Windows (R) Operating System Group Policy Result tool v2.0
© 2018 Microsoft Corporation. All rights reserved.

Created on [ 8/29/2018 at 4:46:47 PM

RSOP data for on LAPTOP1 : Logging Mode
-----

OS Configuration:           Member Workstation
OS Version:                 10.0.17134
Site Name:                  GrandRapids
Roaming Profile:
Local Profile:
Connected over a slow link?: No

COMPUTER SETTINGS
-----
CN=LAPTOP1,OU=Accounting Computers,OU=Accounting,DC=mydomain,DC=local
Last time Group Policy was applied: 8/29/2018 at 4:13:28 PM
Group Policy was applied from:   DC1.mydomain.local
Group Policy slow link threshold: 500 kbps
Domain Name:                    MYDOMAIN
Domain Type:                    Windows 2008 or later

Applied Group Policy Objects
-----
    Default Domain Policy

The following GPOs were not applied because they were filtered out
-----
```

Administrator: Command Prompt

```
C:\Temp>GPRresult /H GPOs.html
C:\Temp>
```

MYDOMAIN\administra x

file:///C:/Temp/GPOs.html

Group Policy Results

MYDOMAIN\administrator on MYDOMAIN\LAPTOP1
Data collected on: 8/30/2018 1:29:53 PM [show all](#)

Summary [hide](#)

During last **computer policy** refresh on 8/30/2018 1:25:30 PM

- No Errors Detected
- A fast link was detected [More information...](#)

During last **user policy** refresh on 8/21/2018 2:00:15 PM

- A fast link was detected [More information...](#)

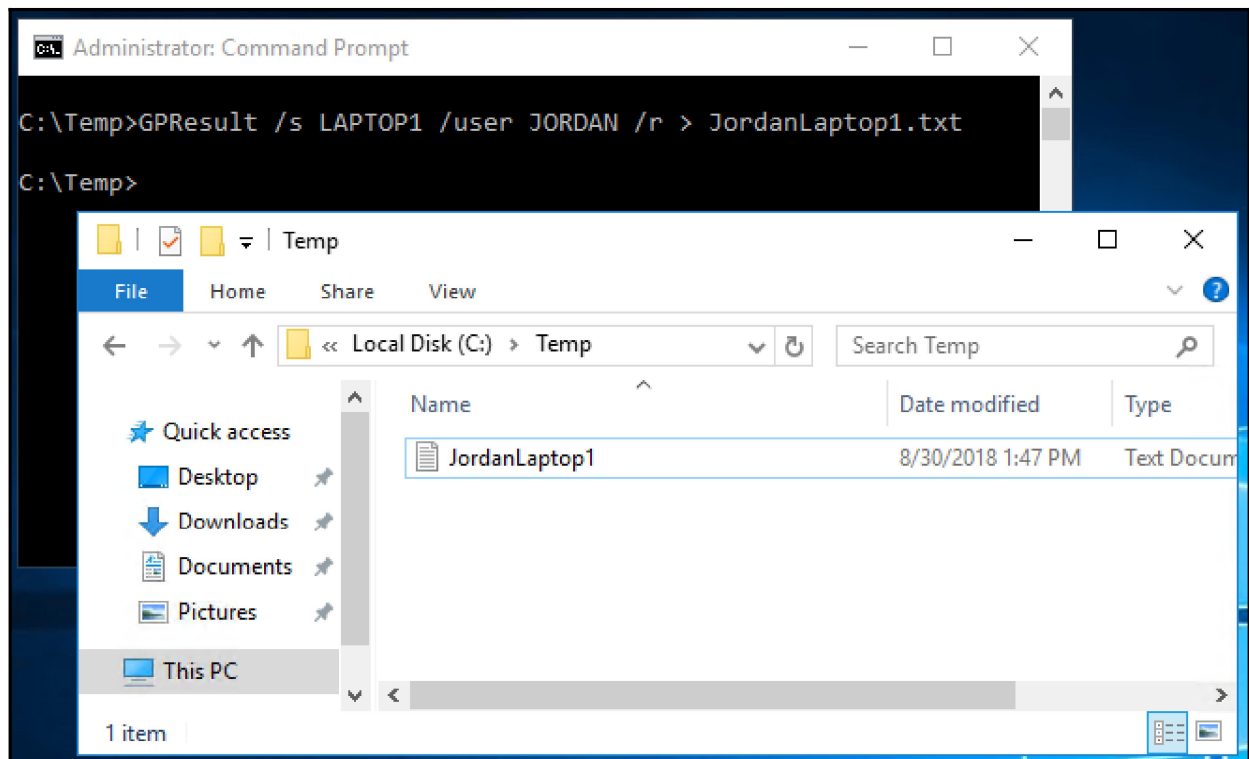
Computer Details [hide](#)

General [hide](#)

Computer name	MYDOMAIN\LAPTOP1
Domain	mydomain.local
Site	GrandRapids
Organizational Unit	mydomain.local/Accounting/Accounting Computers
Security Group Membership	show

Component Status [hide](#)

Component Name	Status	Time Taken	Last Process Time	Event Log
Group Policy	Success	1 Second(s) 31	8/30/2018 1:25:30 PM	View Log

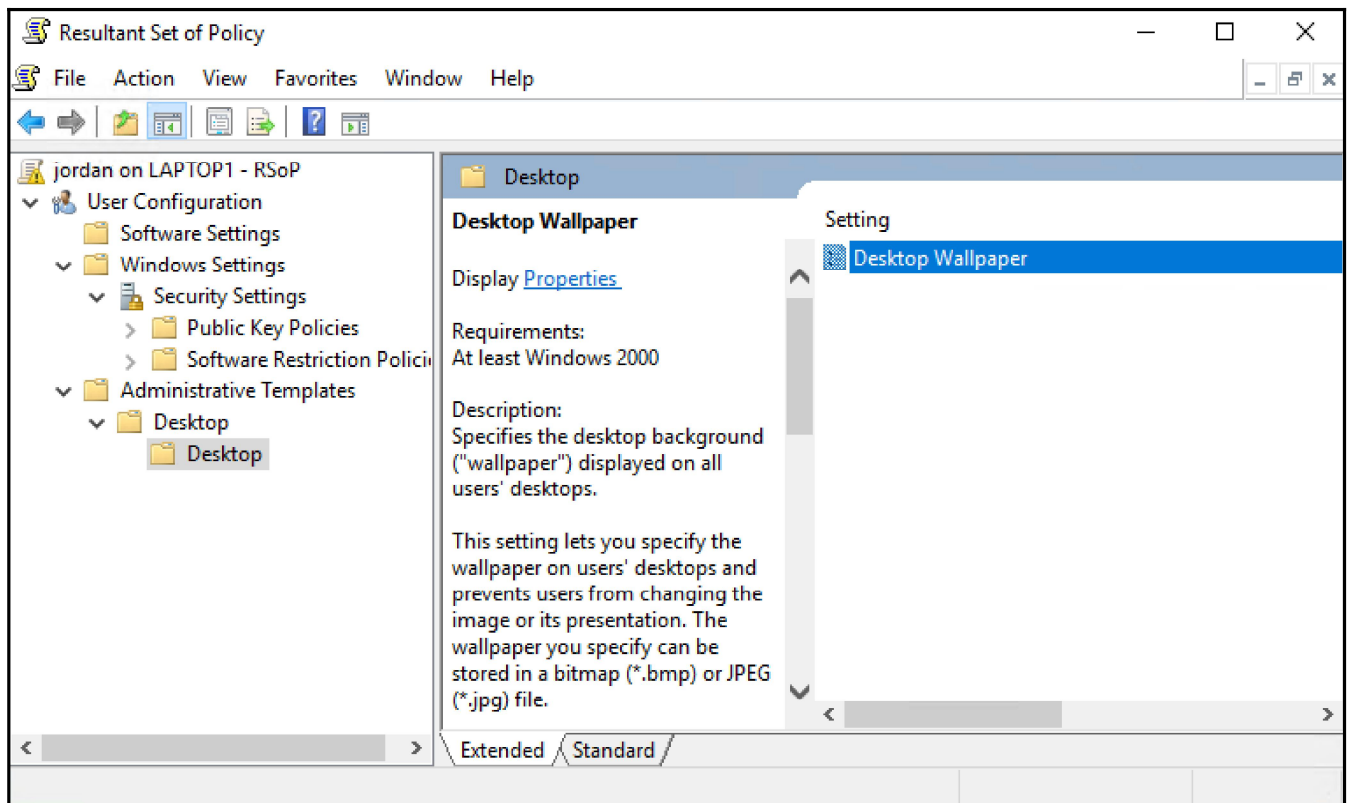


```
JordanLaptop1 - Notepad
File Edit Format View Help
USER SETTINGS
-----
CN=Jordan,OU=Accounting Users,OU=Accounting,DC=mydomain,DC=local
Last time Group Policy was applied: 8/30/2018 at 1:24:40 PM
Group Policy was applied from:      DC1.mydomain.local
Group Policy slow link threshold:   500 kbps
Domain Name:                        MYDOMAIN
Domain Type:                        Windows 2008 or later

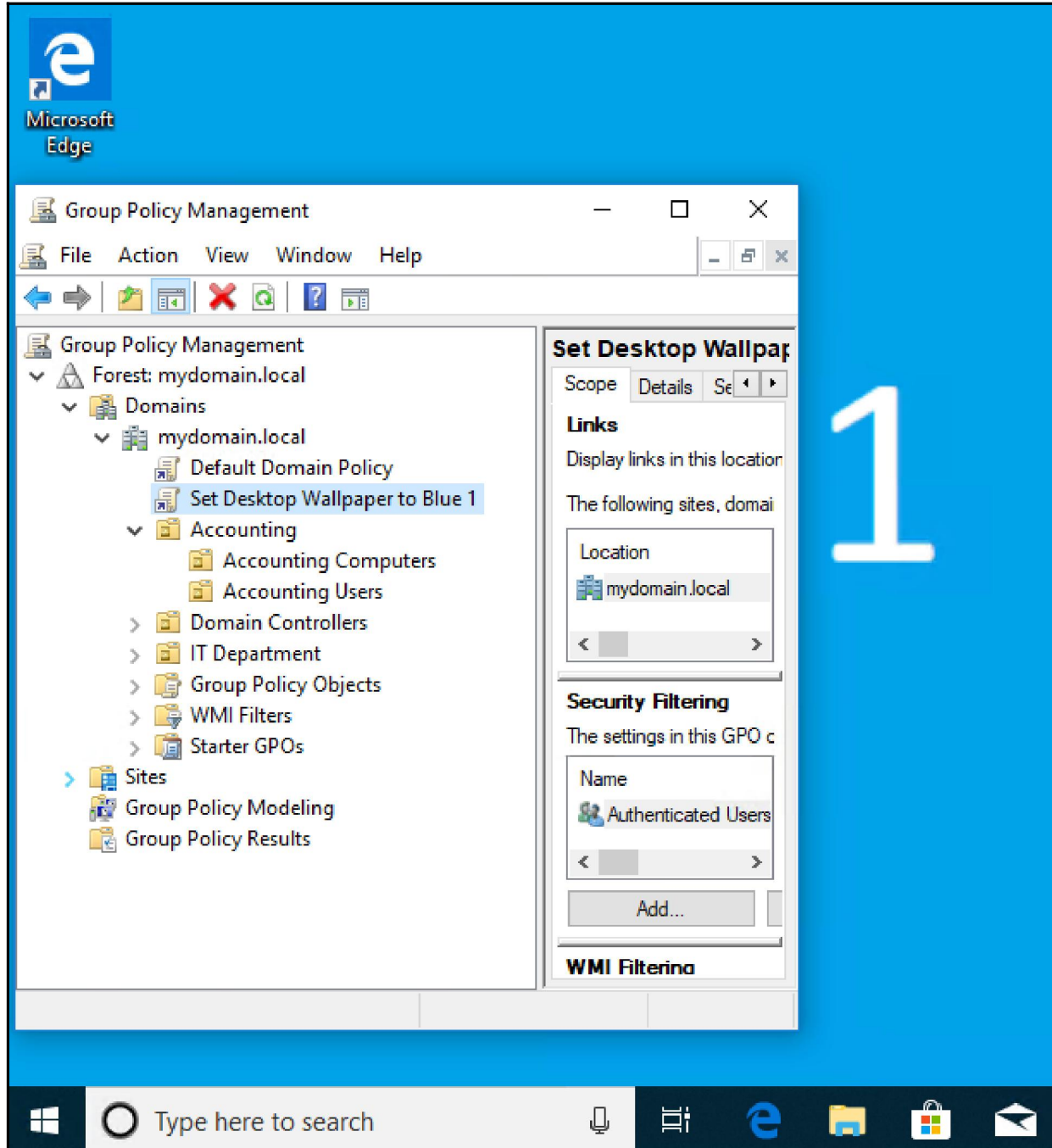
Applied Group Policy Objects
-----
Set Desktop Wallpaper to Blue 1

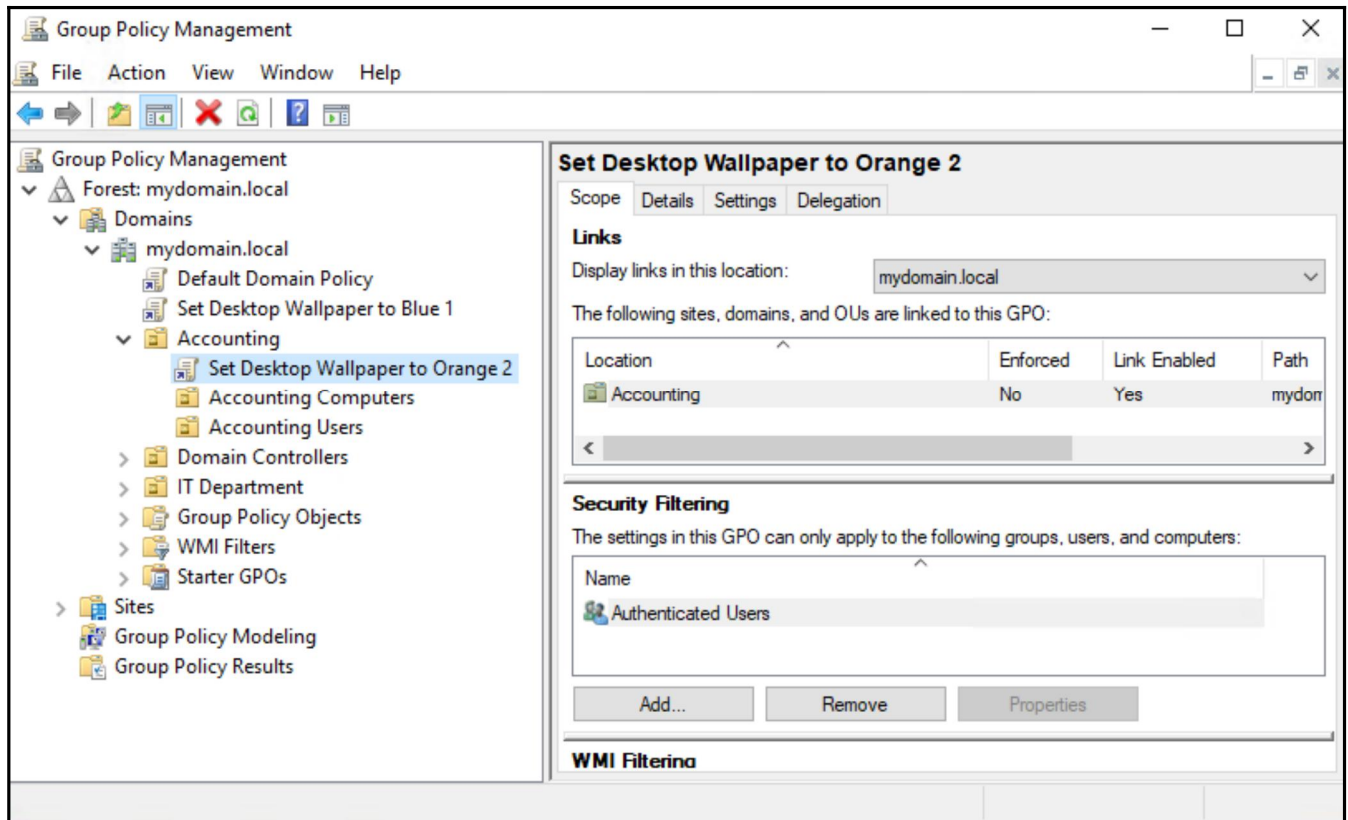
The following GPOs were not applied because they were filtered out
-----
Local Group Policy
  Filtering: Not Applied (Empty)

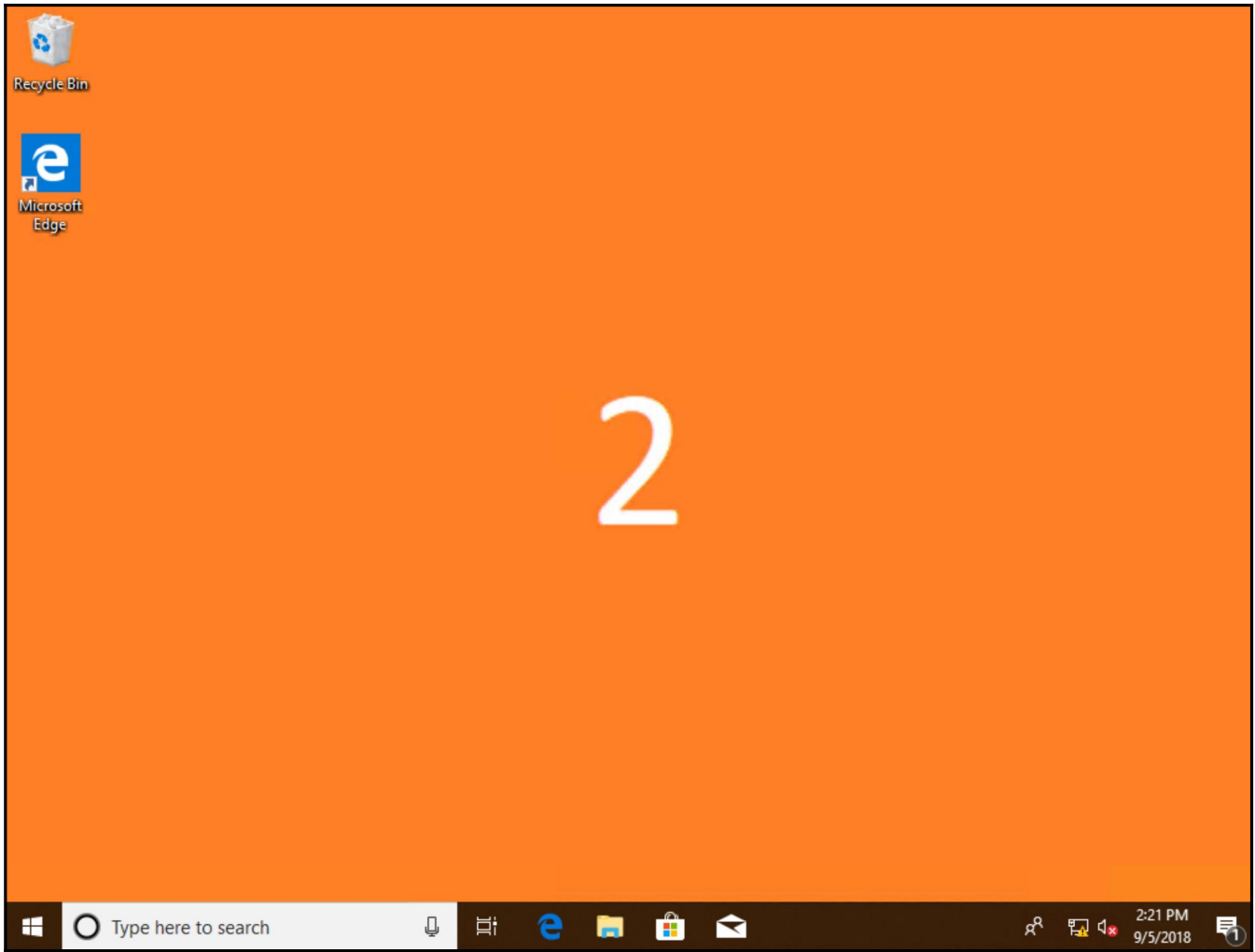
The user is a part of the following security groups
-----
Domain Users
Everyone
BUILTIN\Users
NT AUTHORITY\INTERACTIVE
```

Chapter 04: Advanced Filtering of Group Policy Objects







Accounting

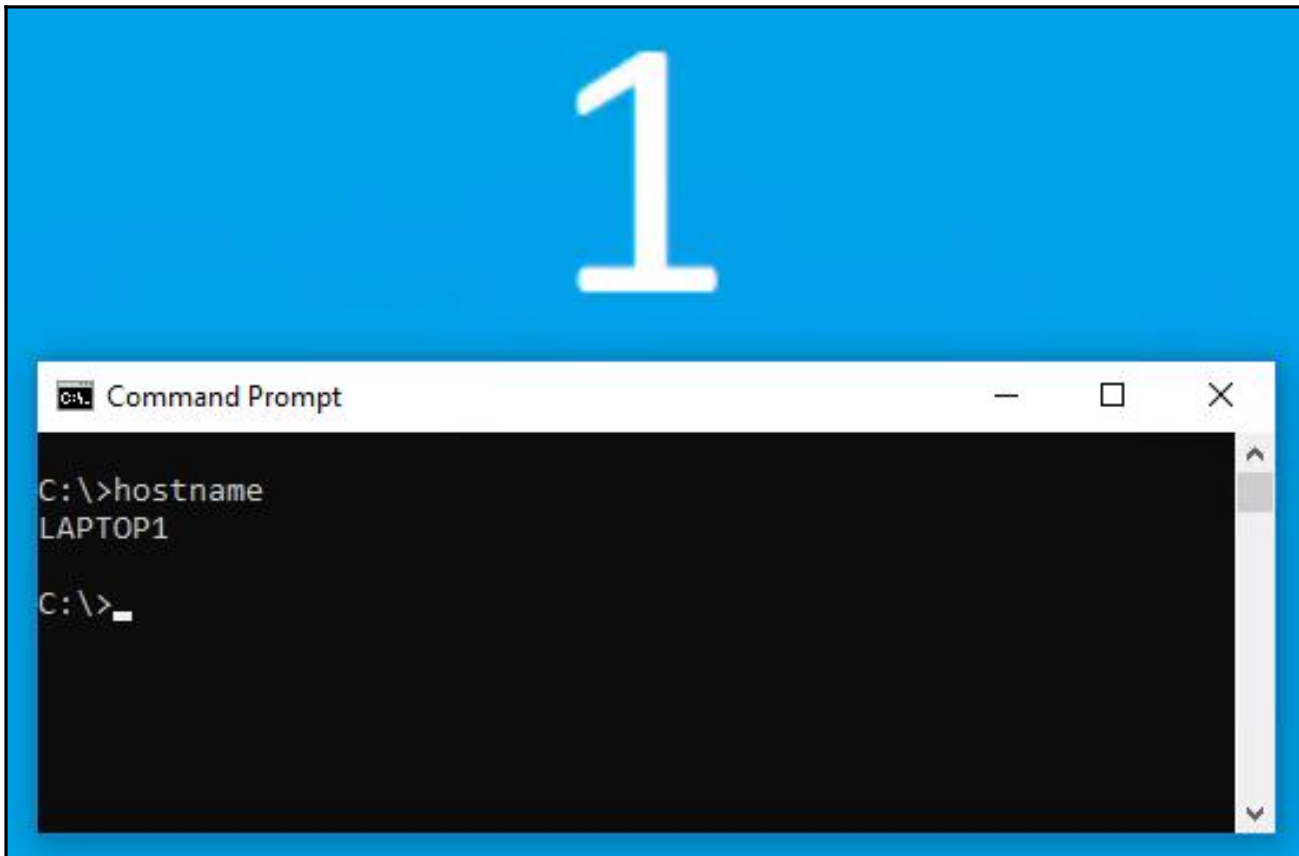
Linked Group Policy Objects Group Policy Inheritance Delegation

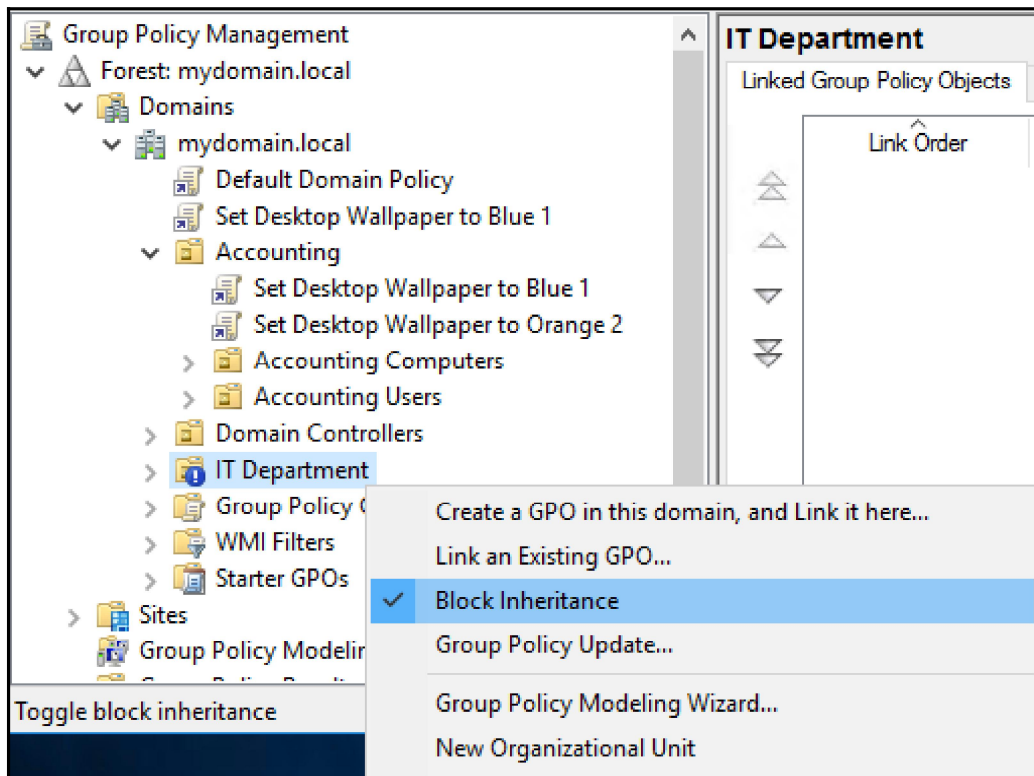
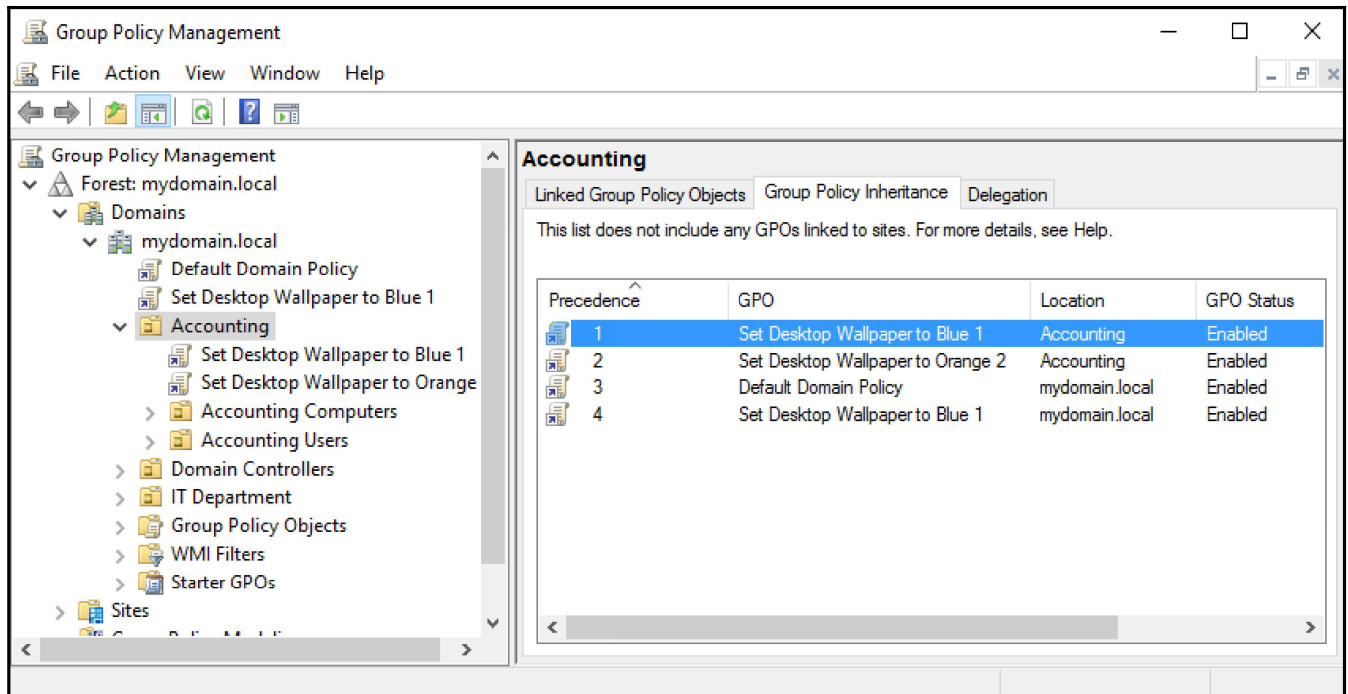
Link Order	GPO	Enforced	Link Enabled
1	Set Desktop Wallpaper to Orange 2	No	Yes
2	Set Desktop Wallpaper to Blue 1	No	Yes

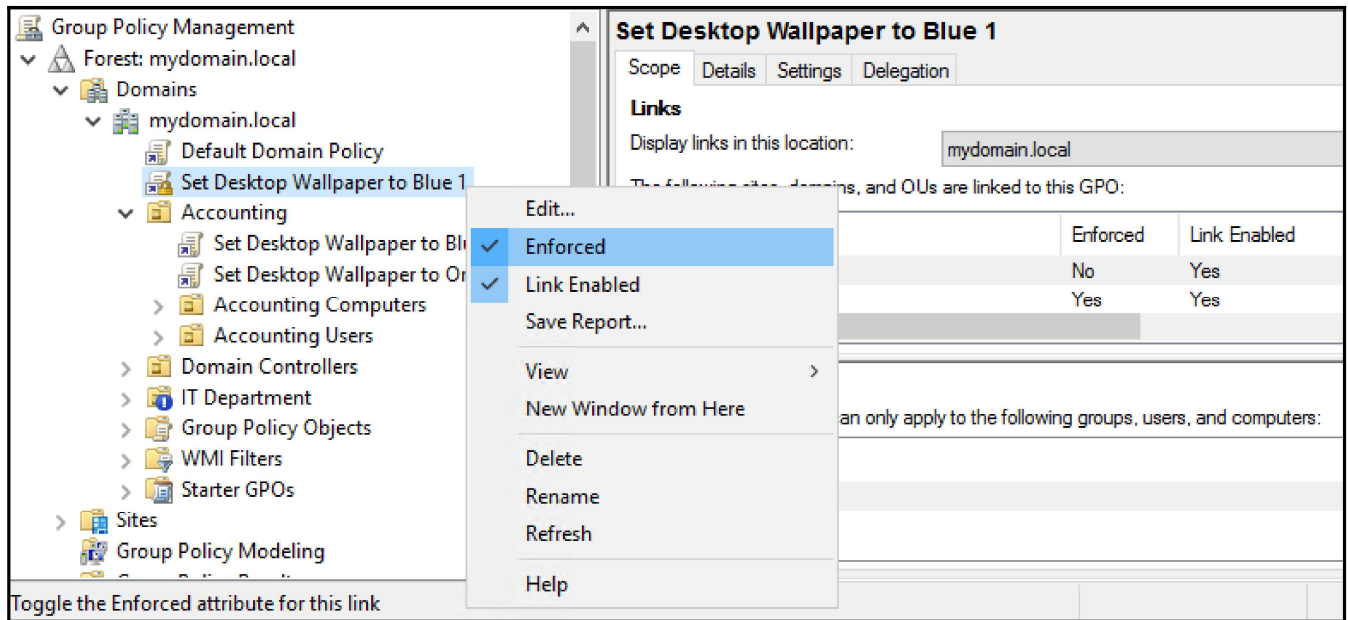
Accounting

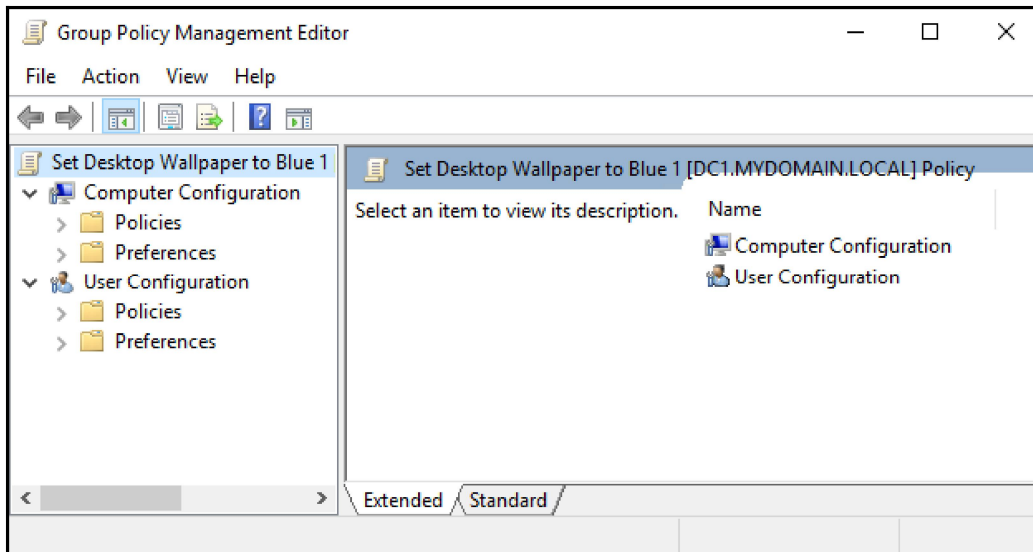
Linked Group Policy Objects Group Policy Inheritance Delegation

Link Order	GPO	Enforced	Link Enabled
1	Set Desktop Wallpaper to Blue 1	No	Yes
2	Set Desktop Wallpaper to Orange 2	No	Yes



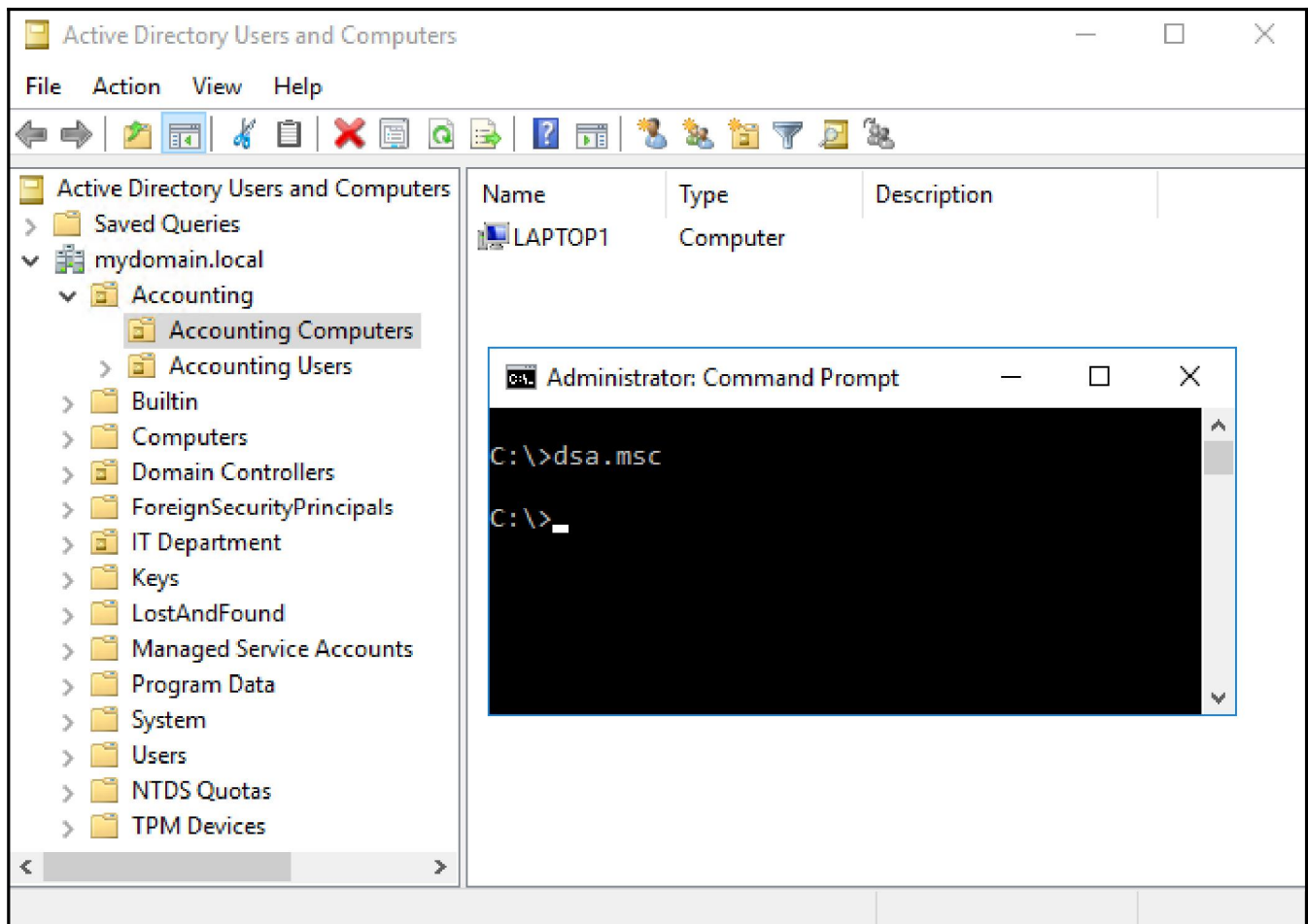


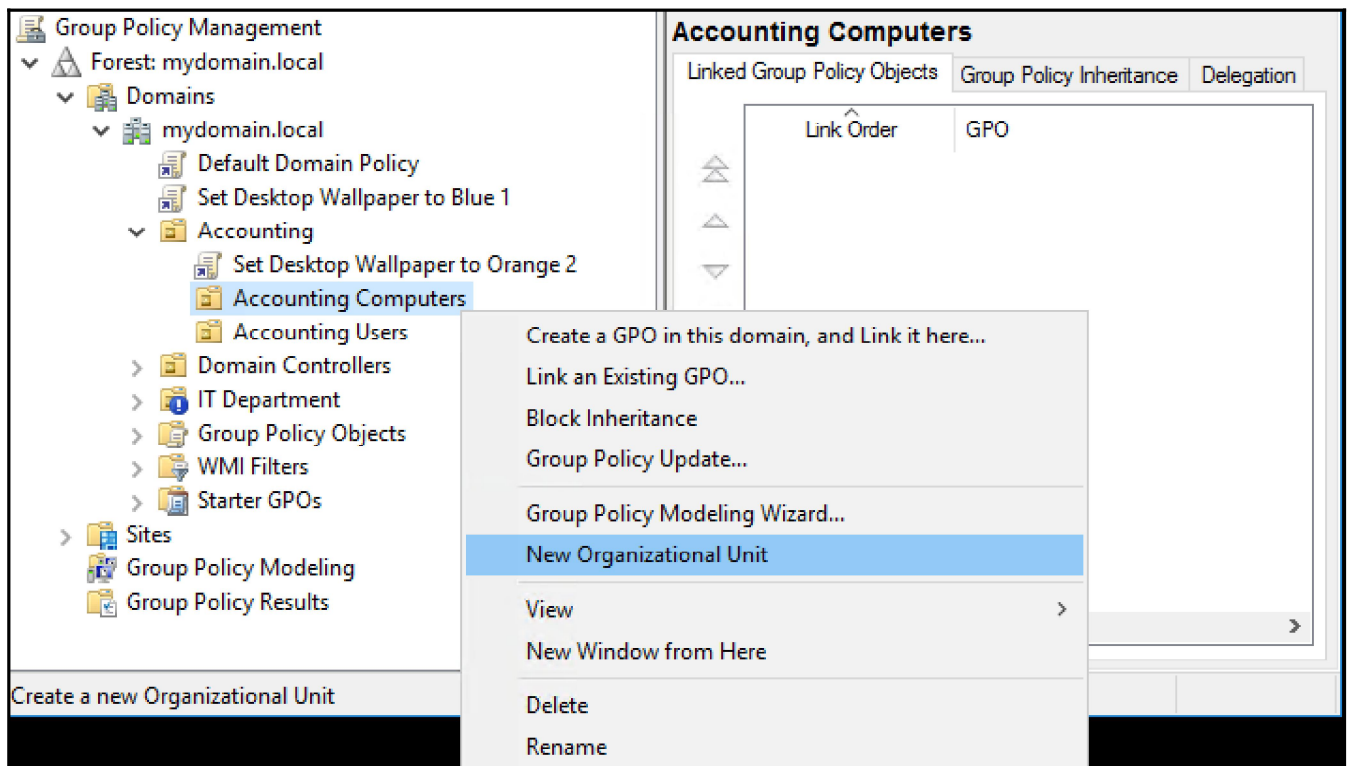
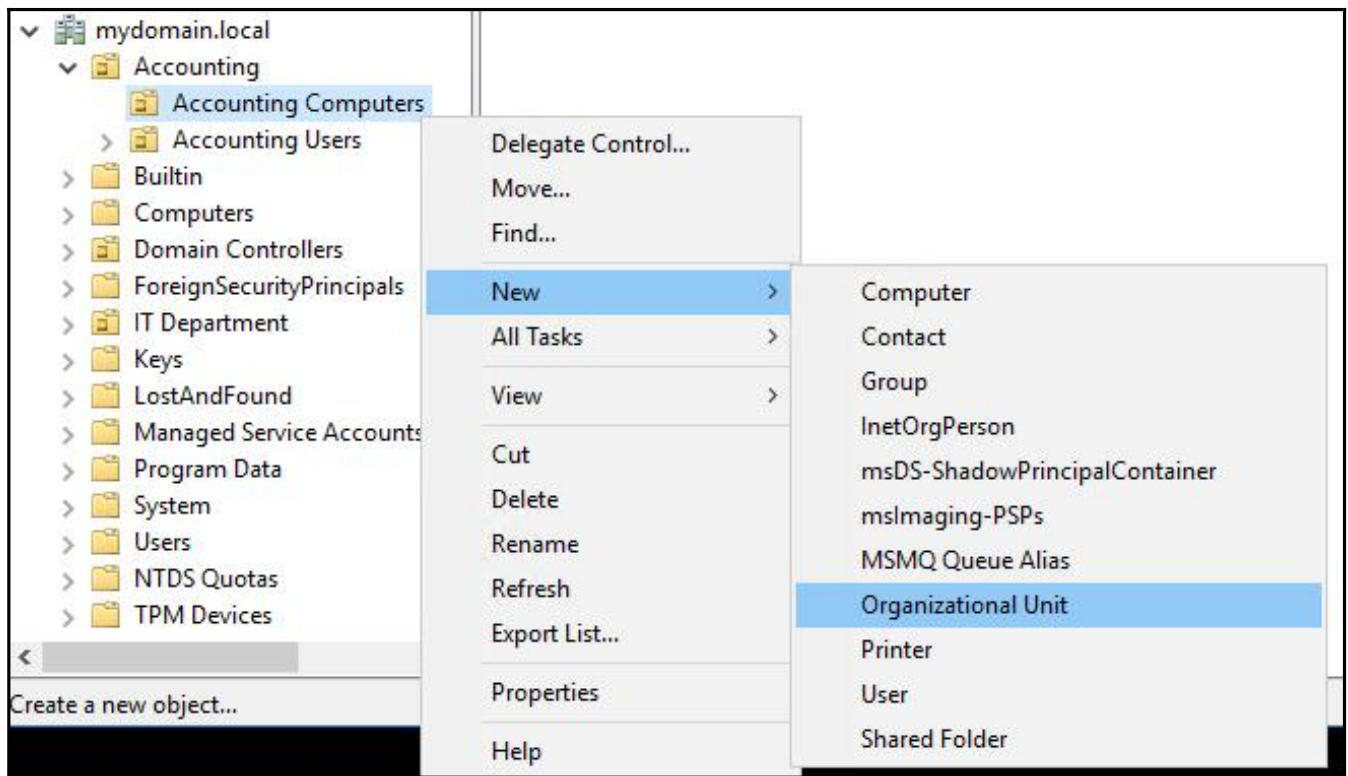


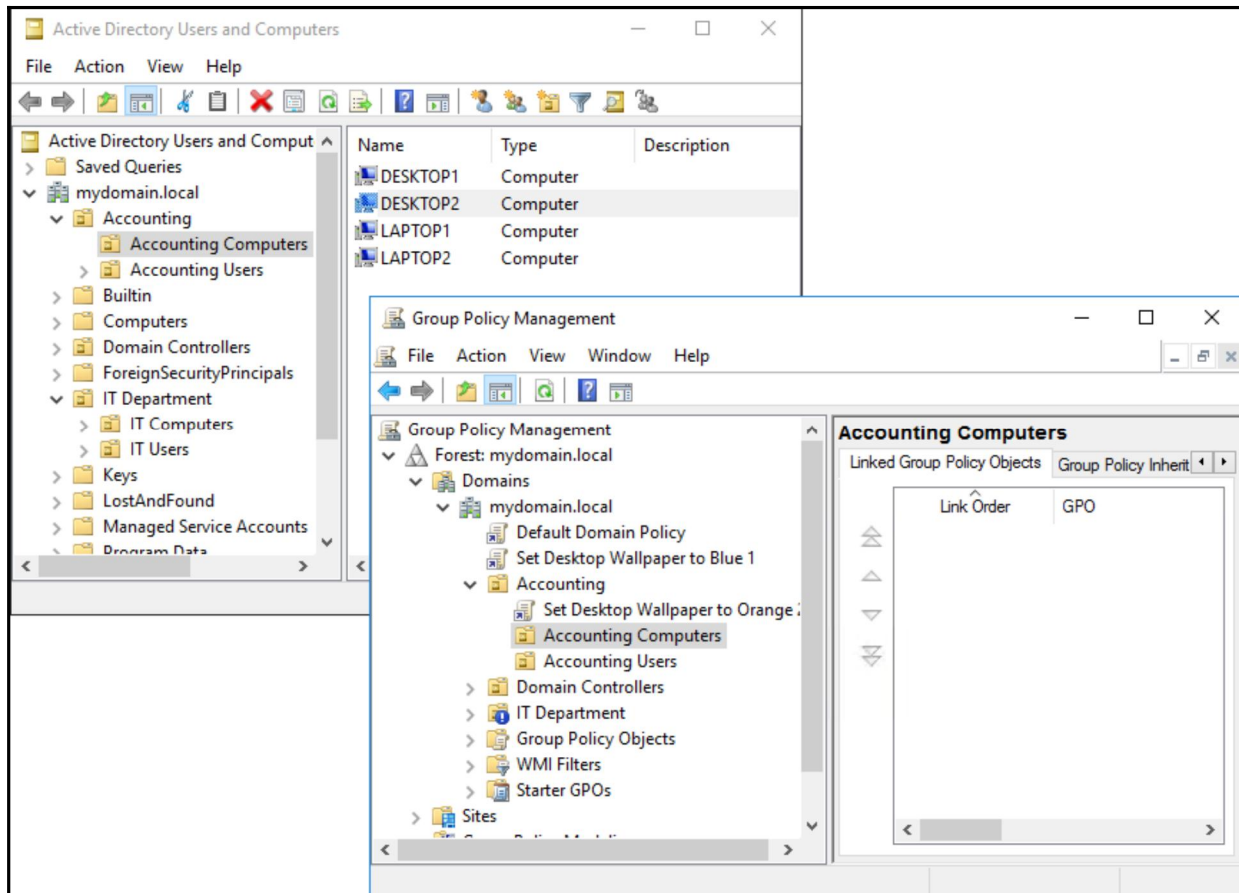


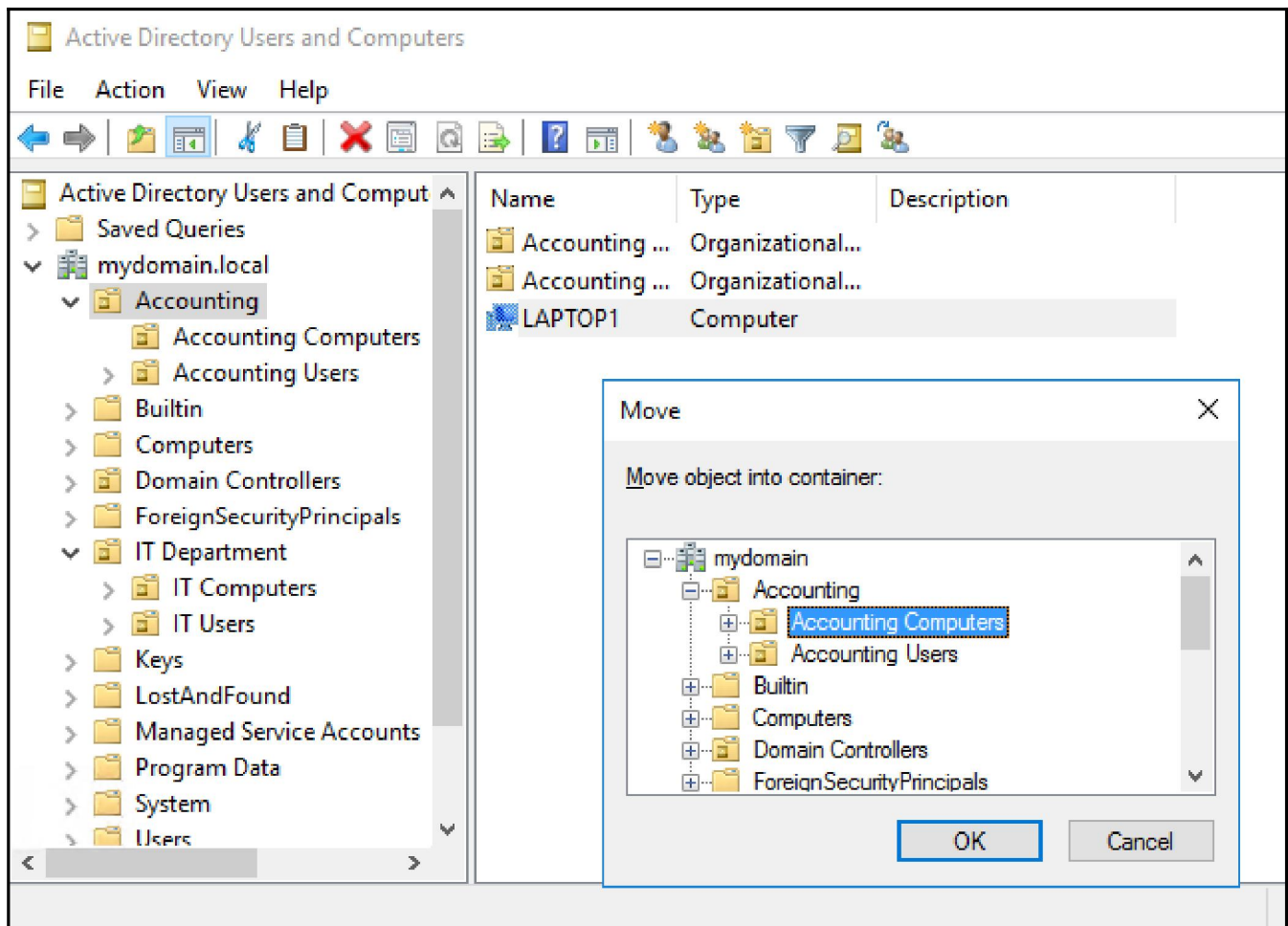
Set Desktop Wallpaper to Blue 1

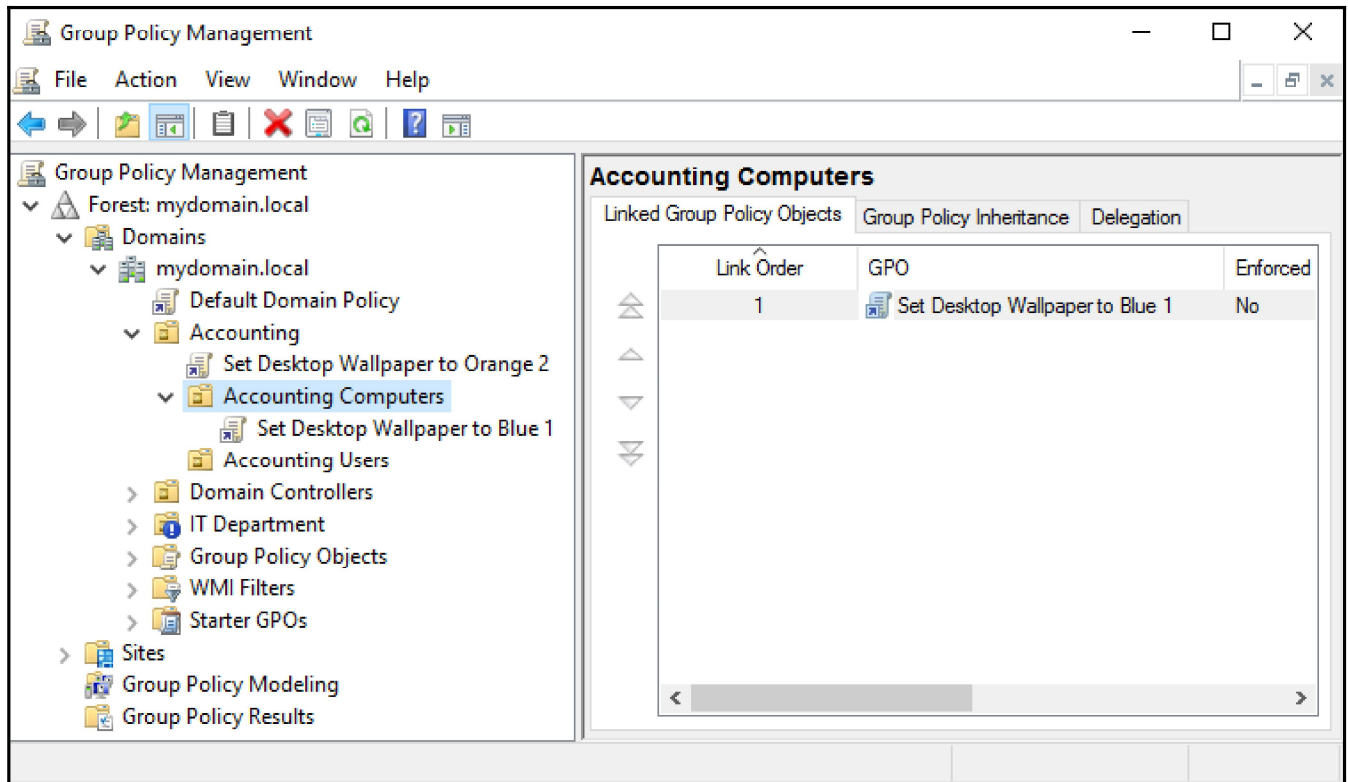
Scope	Details	Settings	Delegation	Status
Domain:	mydomain.local			
Owner:	Domain Admins (MYDOMAIN\Domain Admins)			
Created:	8/23/2018 7:43:05 AM			
Modified:	8/23/2018 7:58:20 AM			
User version:	1 (AD), 1 (SYSVOL)			
Computer version:	0 (AD), 0 (SYSVOL)			
Unique ID:	{C44AA176-88DF-477B-93B0-8D659279181C}			
GPO Status:	<div style="border: 1px solid black; padding: 2px;"> Enabled ▼ </div>			
Comment:	<div style="border: 1px solid black; padding: 2px;"> All settings disabled Computer configuration settings disabled Enabled User configuration settings disabled </div>			

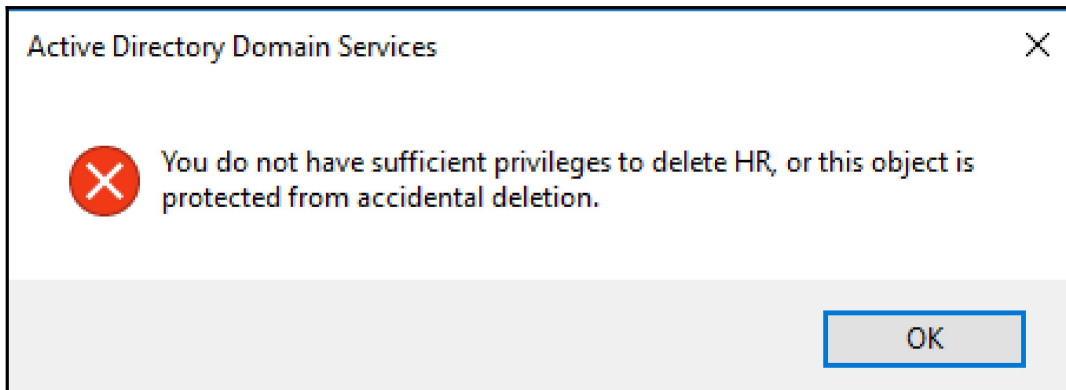
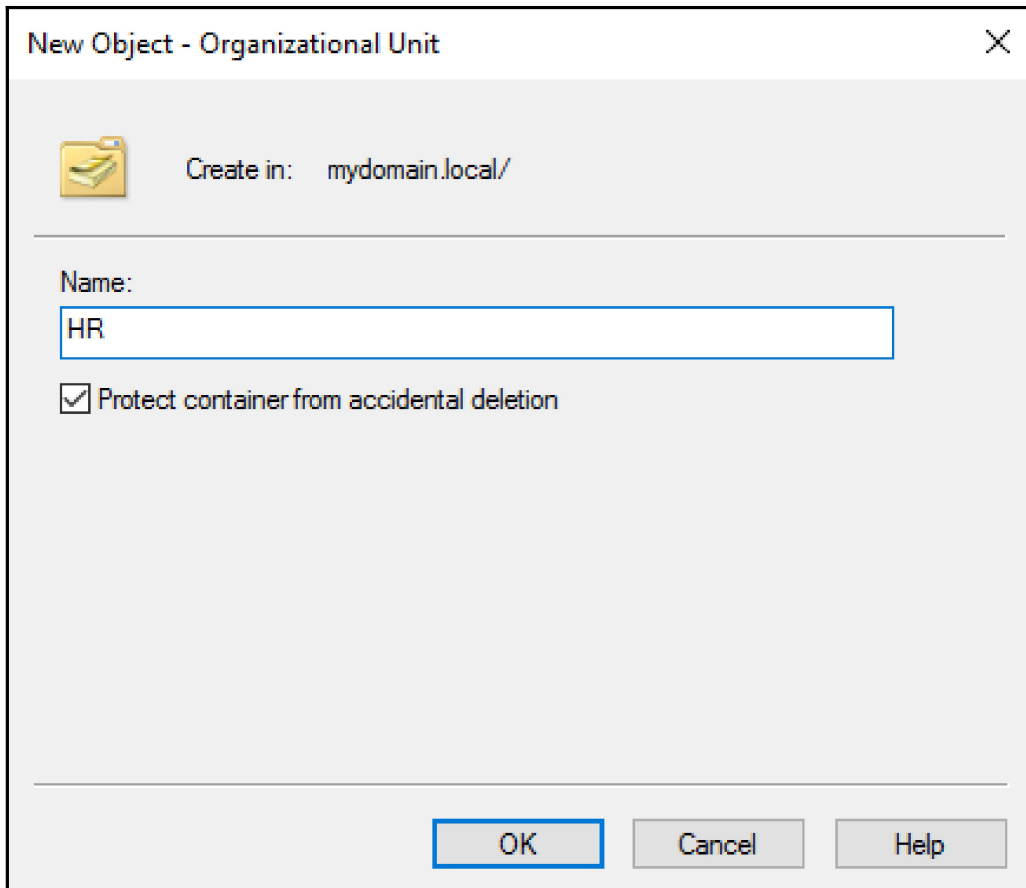


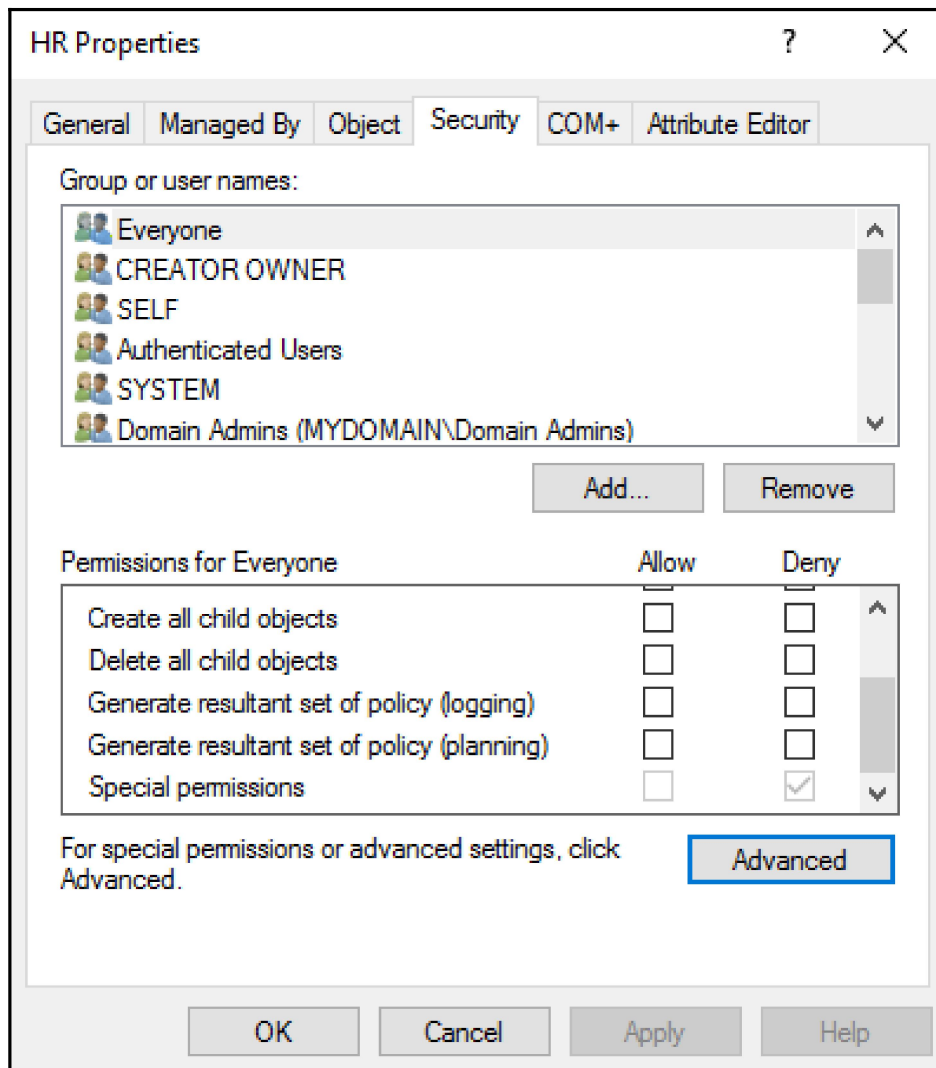


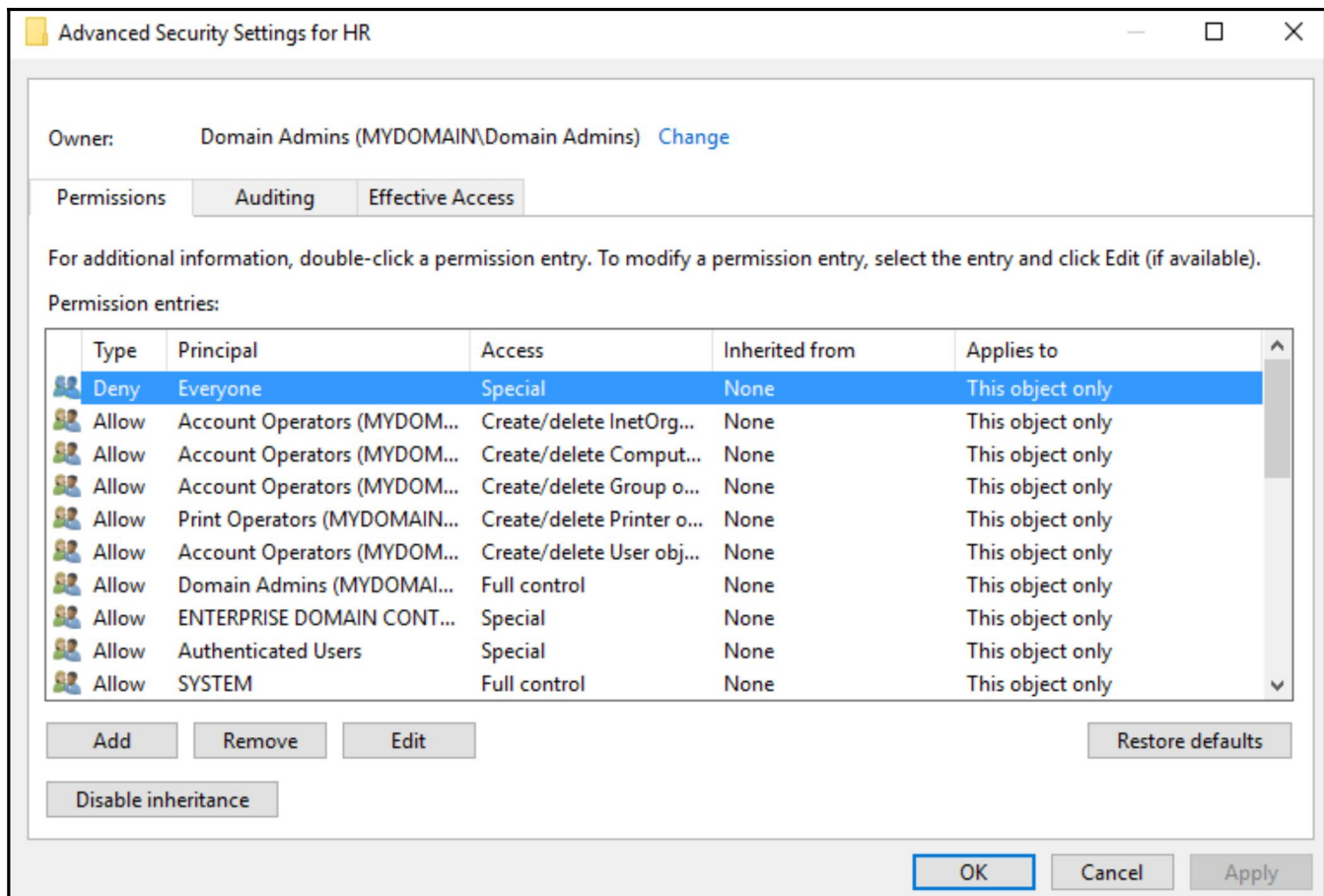


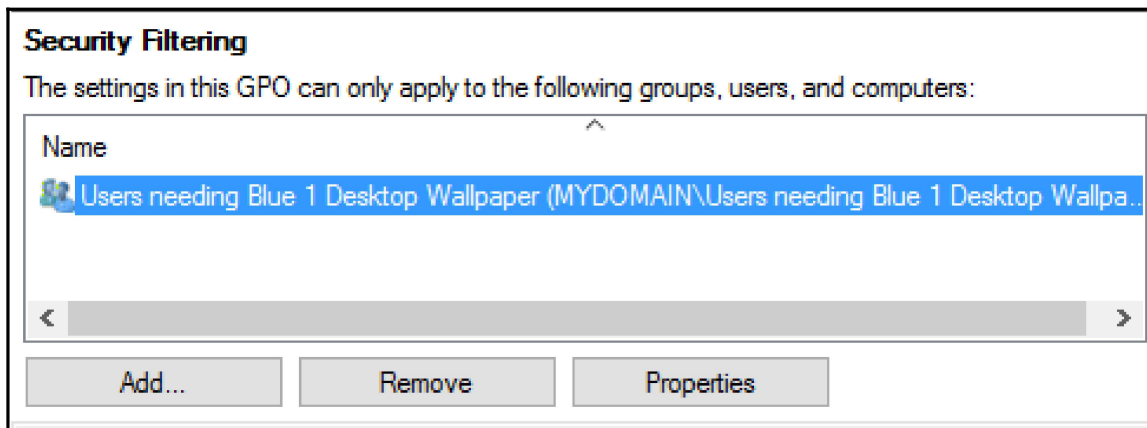
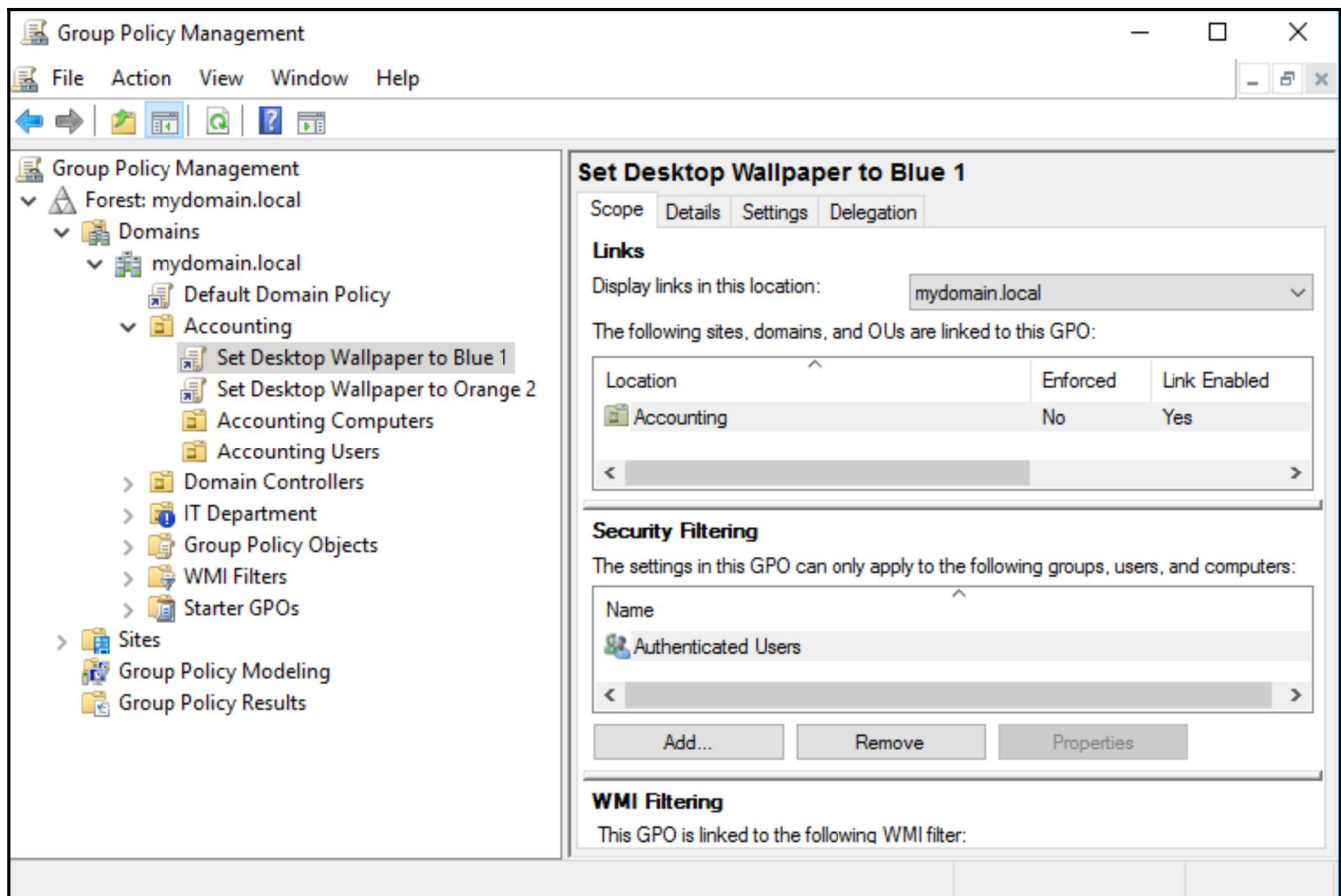


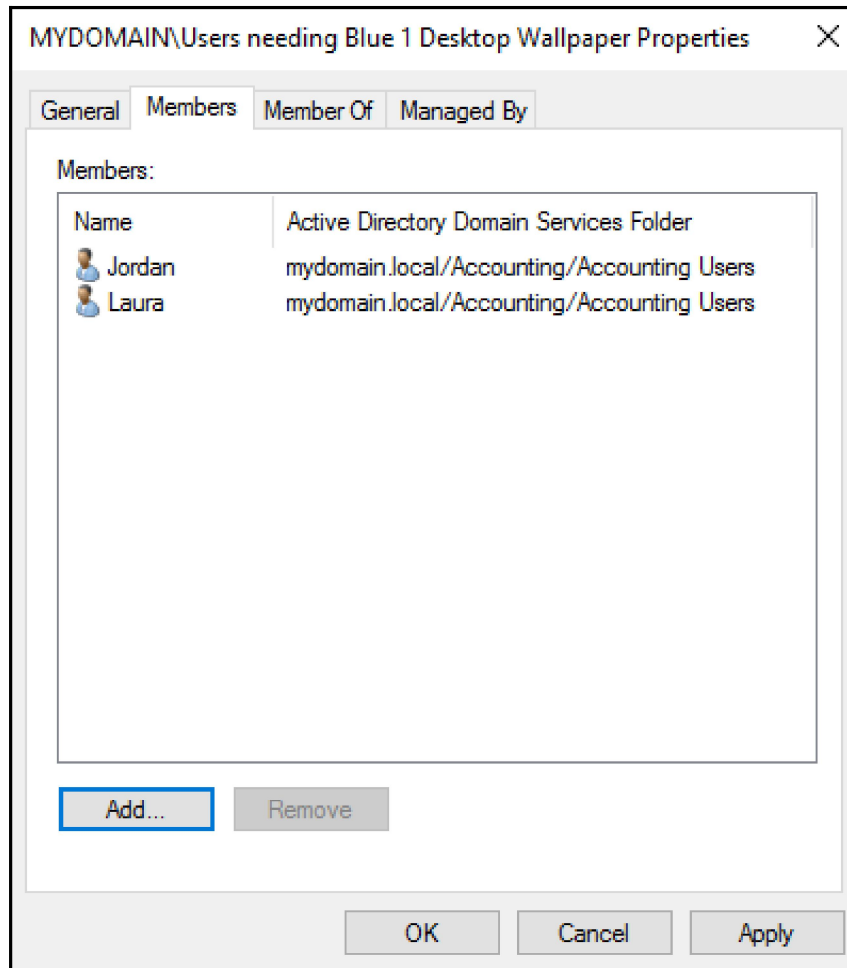


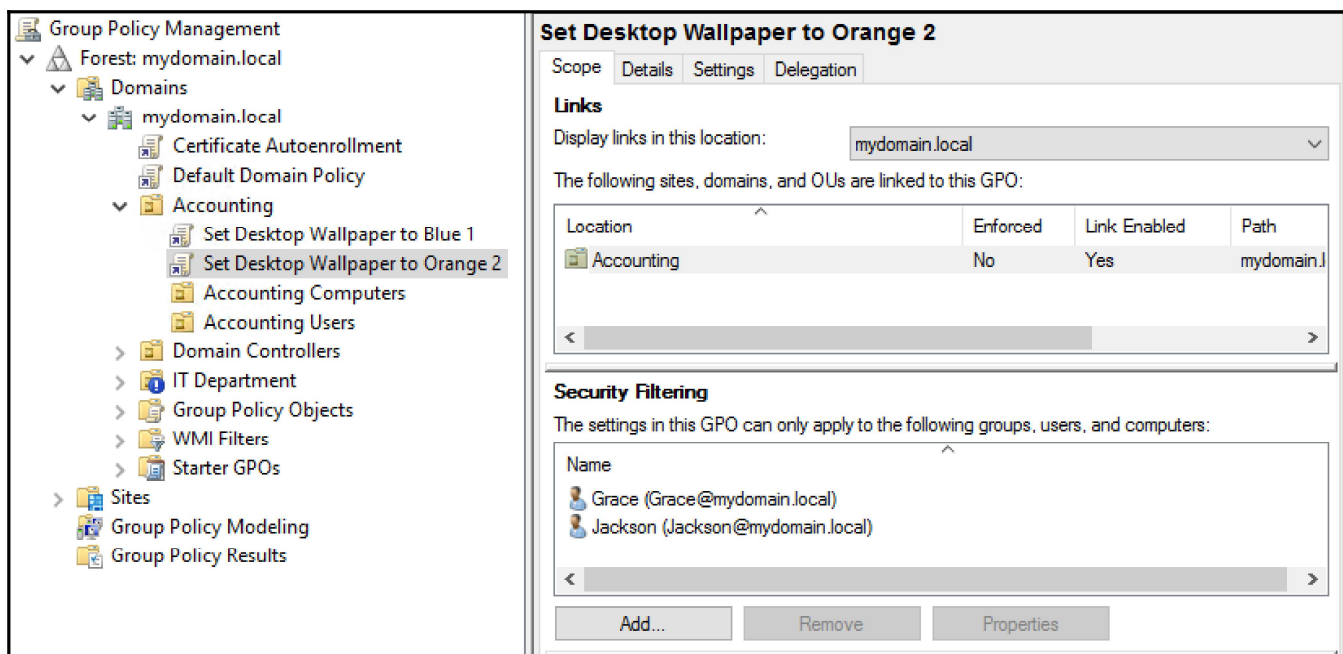
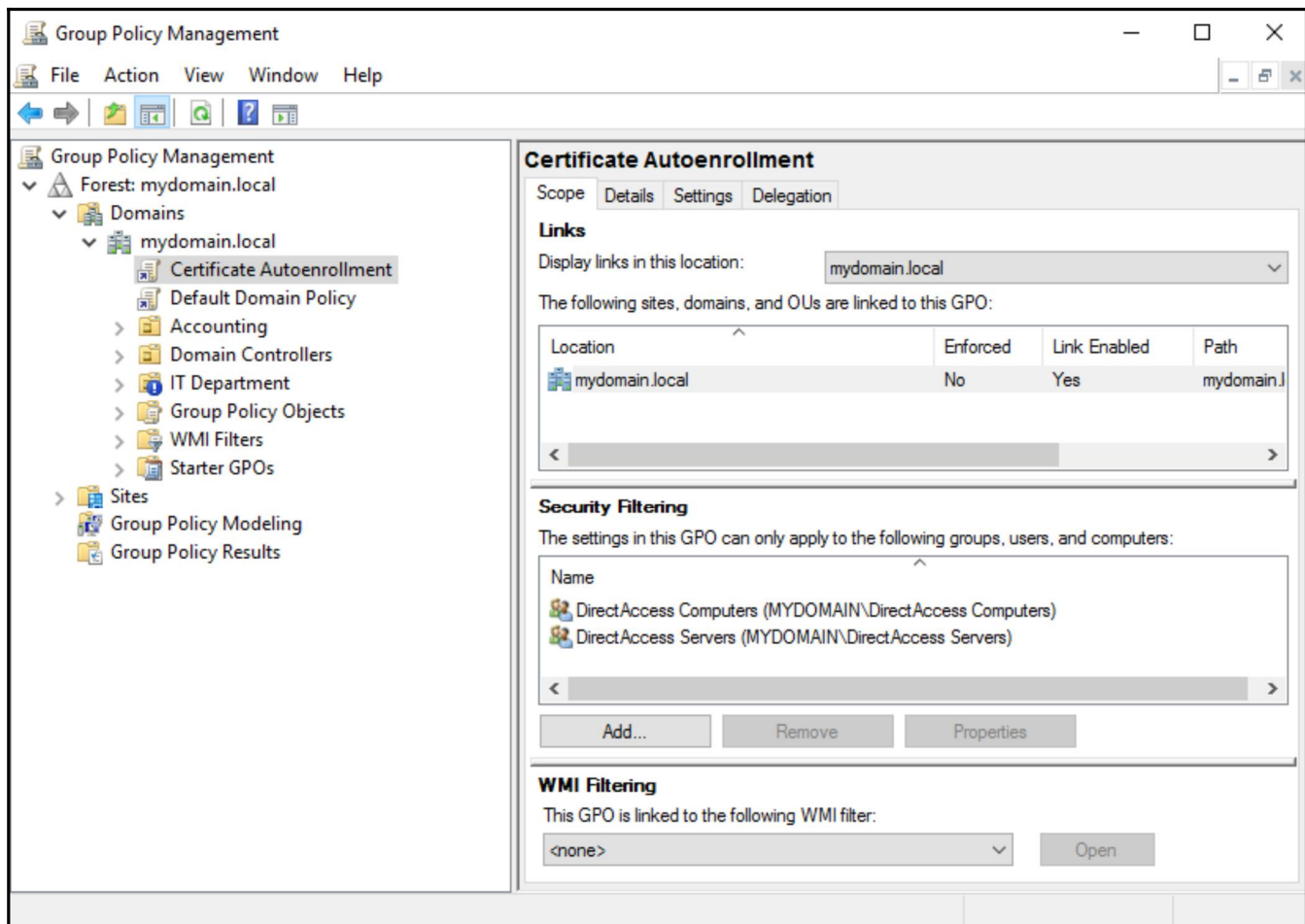


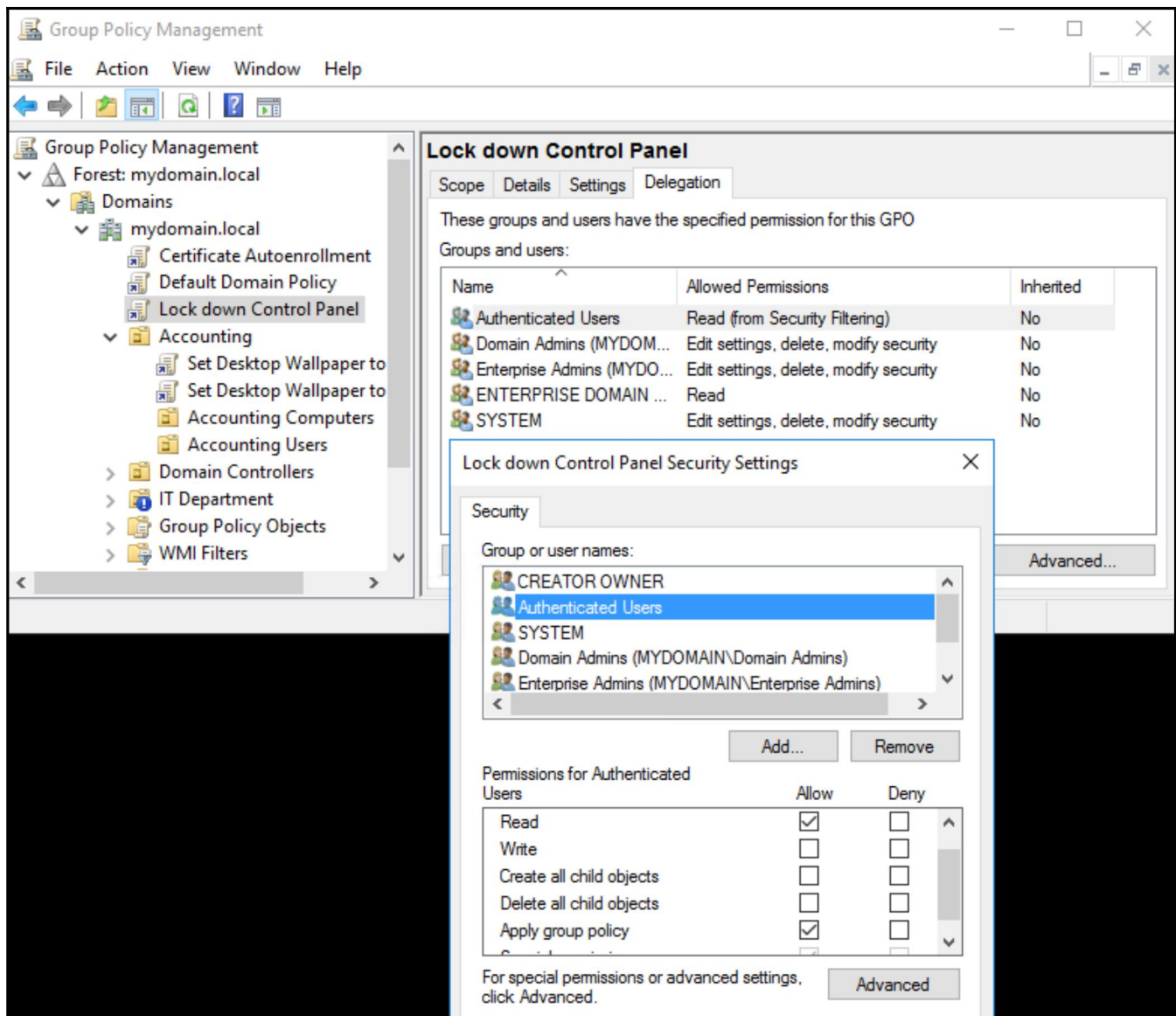


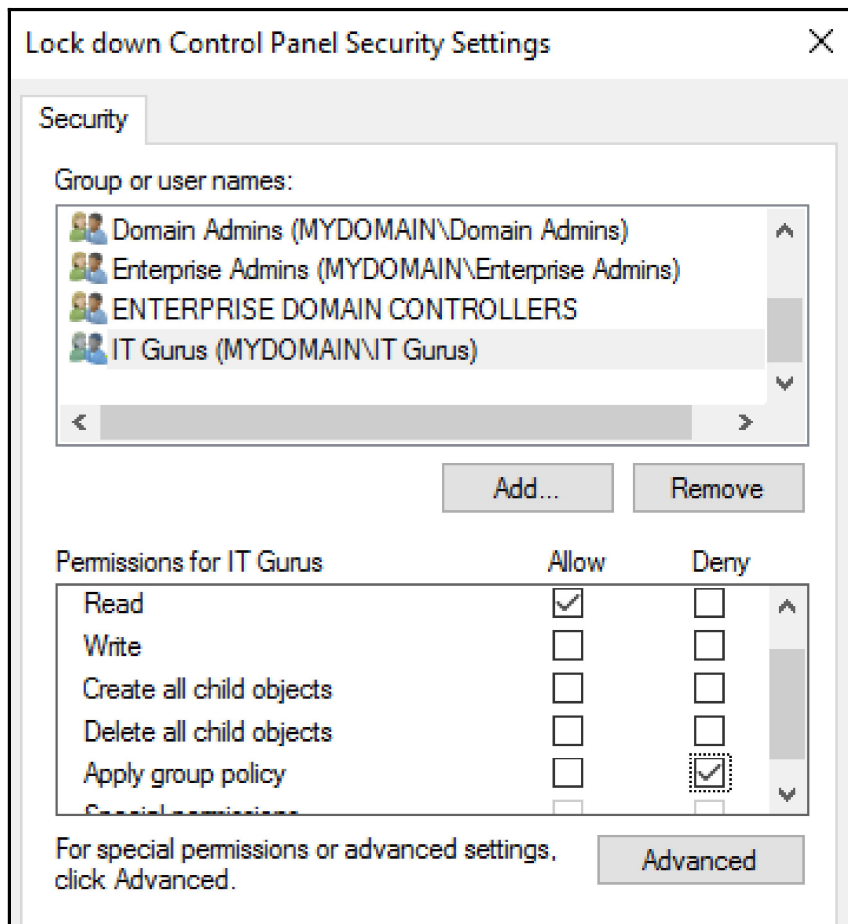


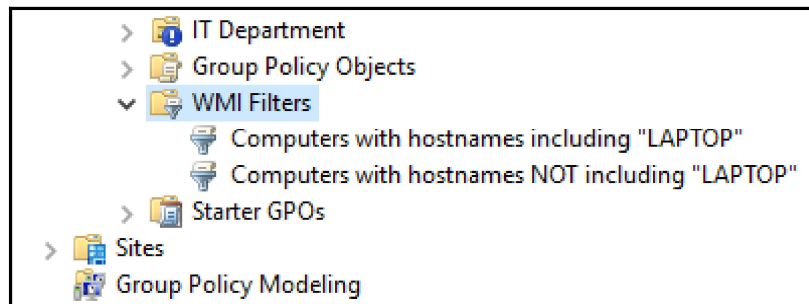
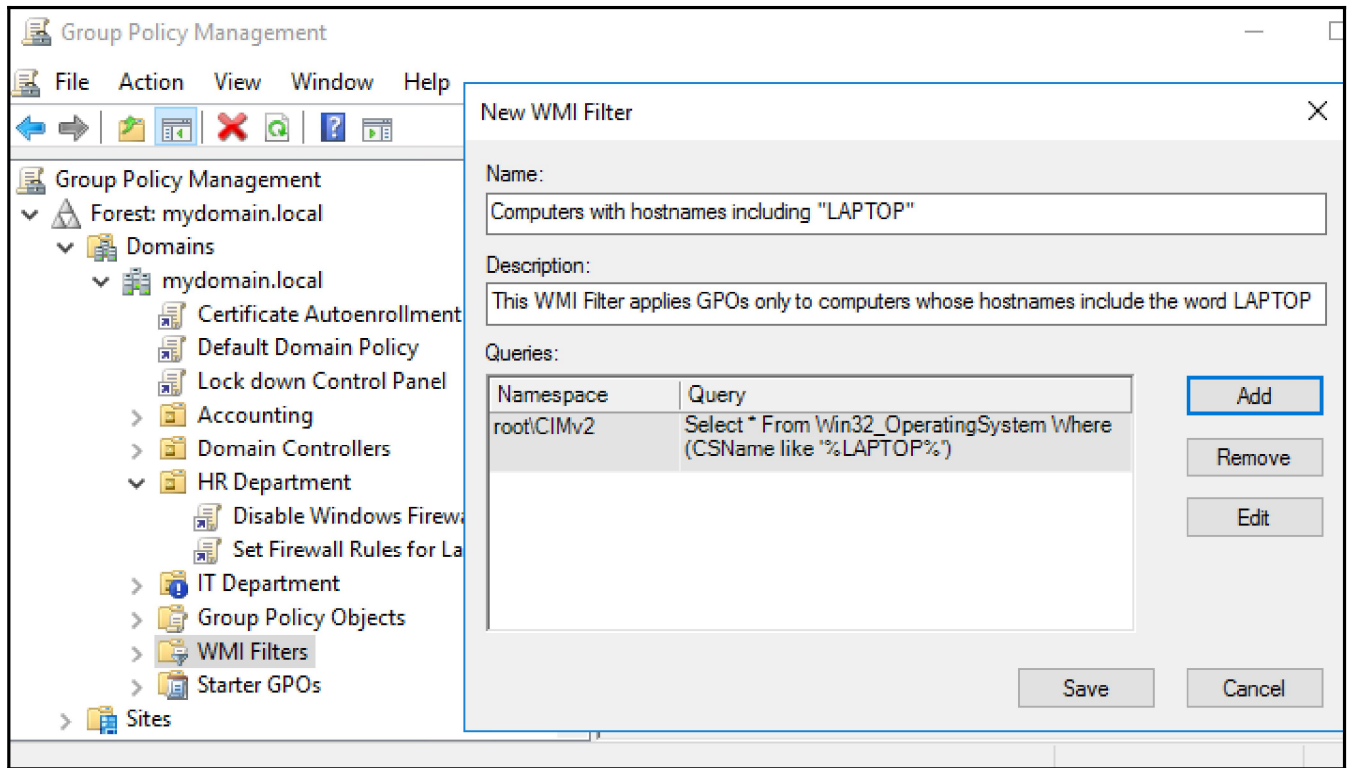












Group Policy Management

- Forest: mydomain.local
 - Domains
 - mydomain.local
 - Certificate Autoenrollment
 - Default Domain Policy
 - Lock down Control Panel
 - Accounting
 - Domain Controllers
 - HR Department
 - Disable Windows Firewall
 - Set Firewall Rules for Laptops**
 - IT Department
 - Group Policy Objects
 - WMI Filters
 - Computers with hostnames including "LAPTOP"
 - Computers with hostnames NOT including "LAPTOP"
 - Starter GPOs

- Sites
- Group Policy Modeling
- Group Policy Results

Set Firewall Rules for Laptops

Scope Details Settings Delegation

Links

Display links in this location: mydomain.local

The following sites, domains, and OUs are linked to this GPO:

Location	Enforced	Link Enabled
HR Department	No	Yes

Security Filtering

The settings in this GPO can only apply to the following groups, users, and computers:

Name
Authenticated Users

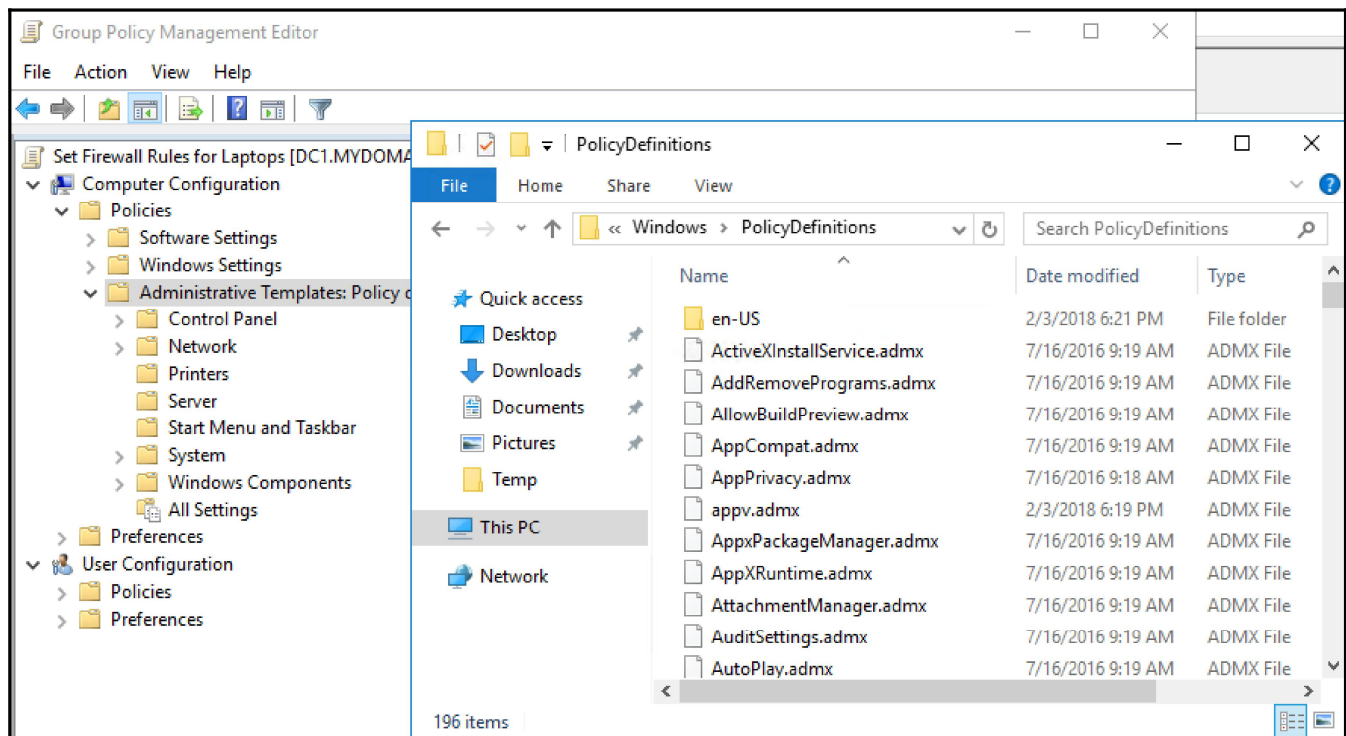
Add...
Remove
Properties

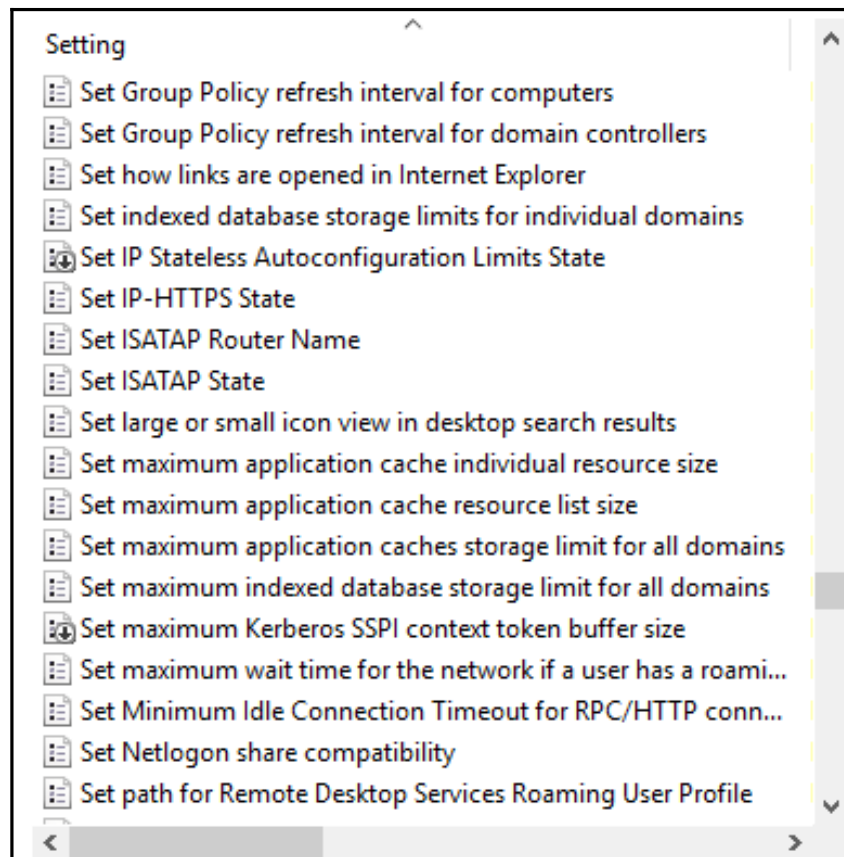
WMI Filtering

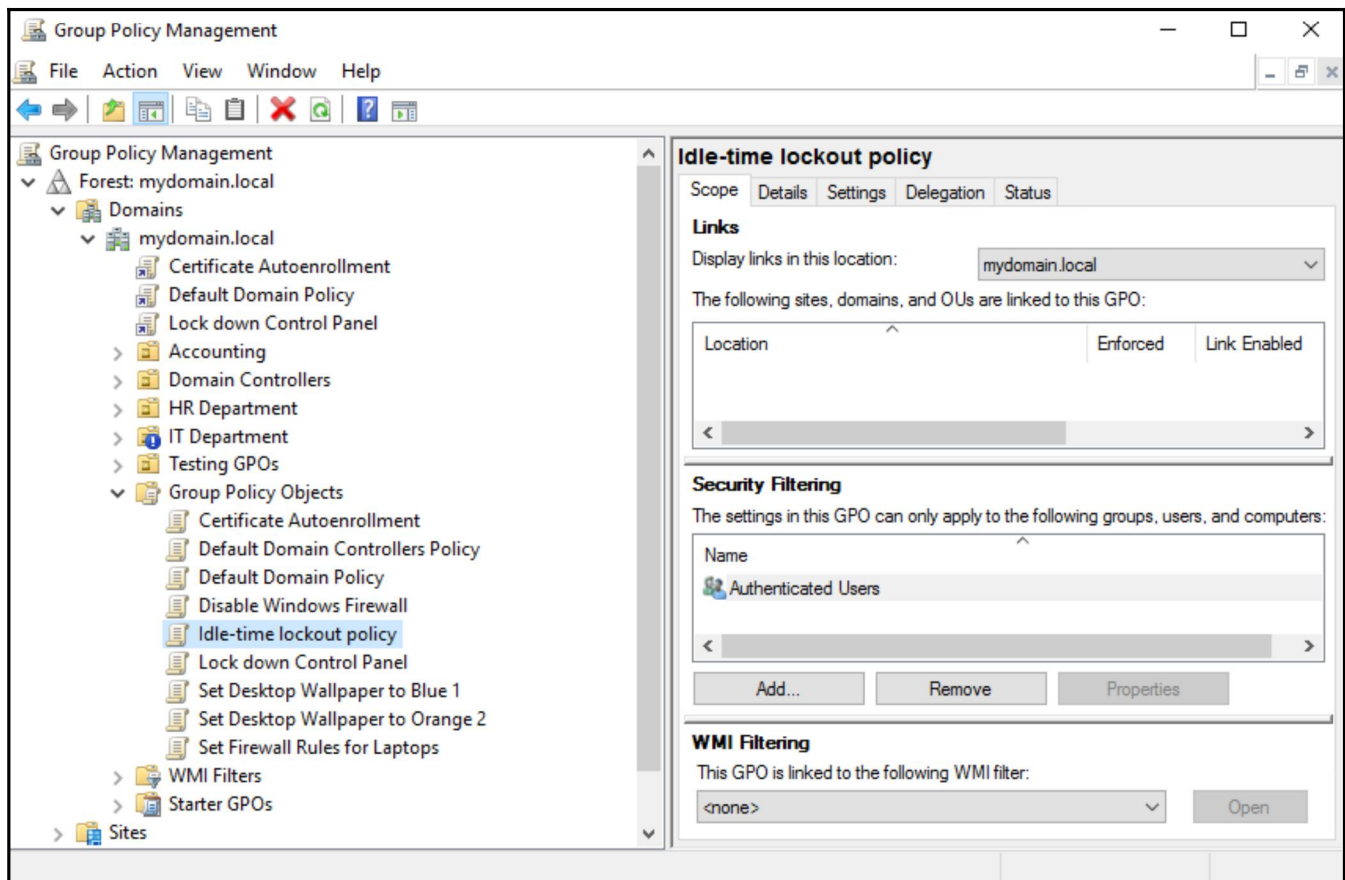
This GPO is linked to the following WMI filter:

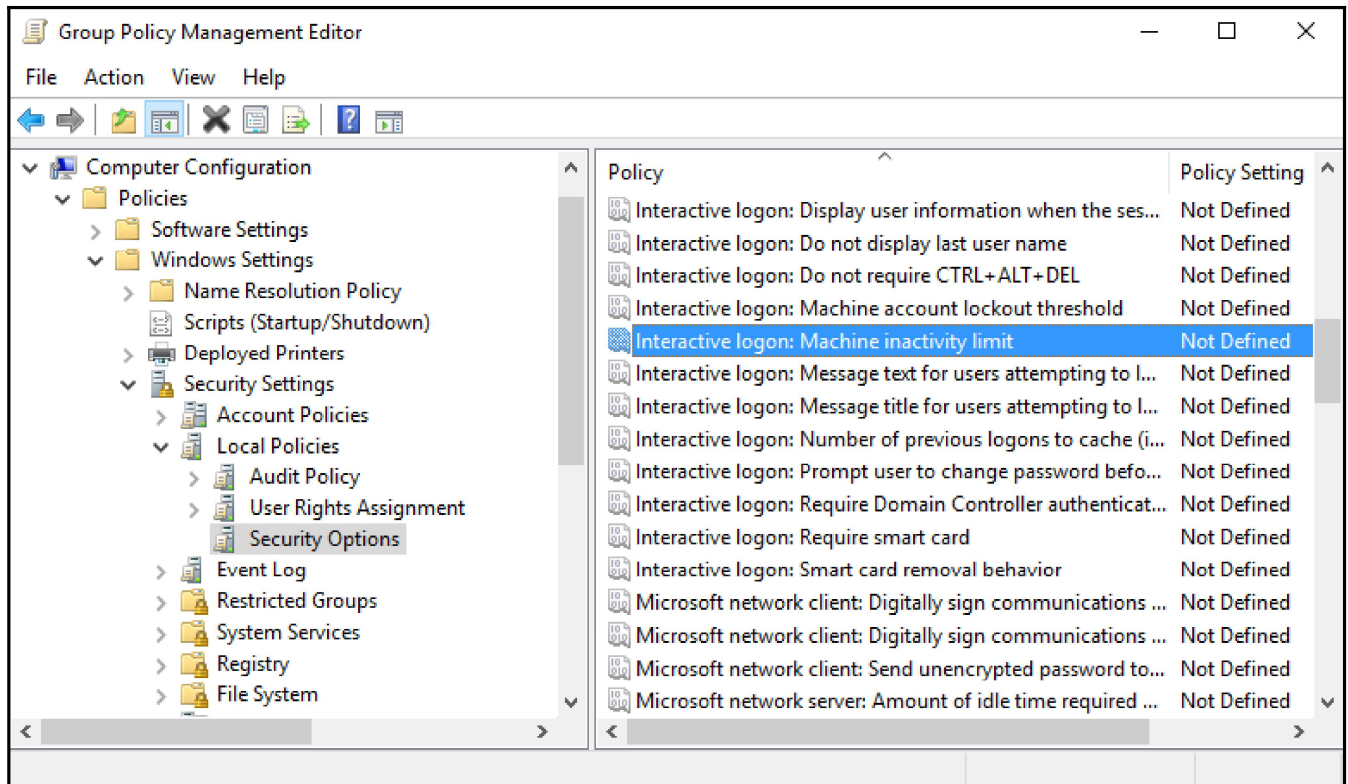
Computers with hostnames including "LAPTOP" Open

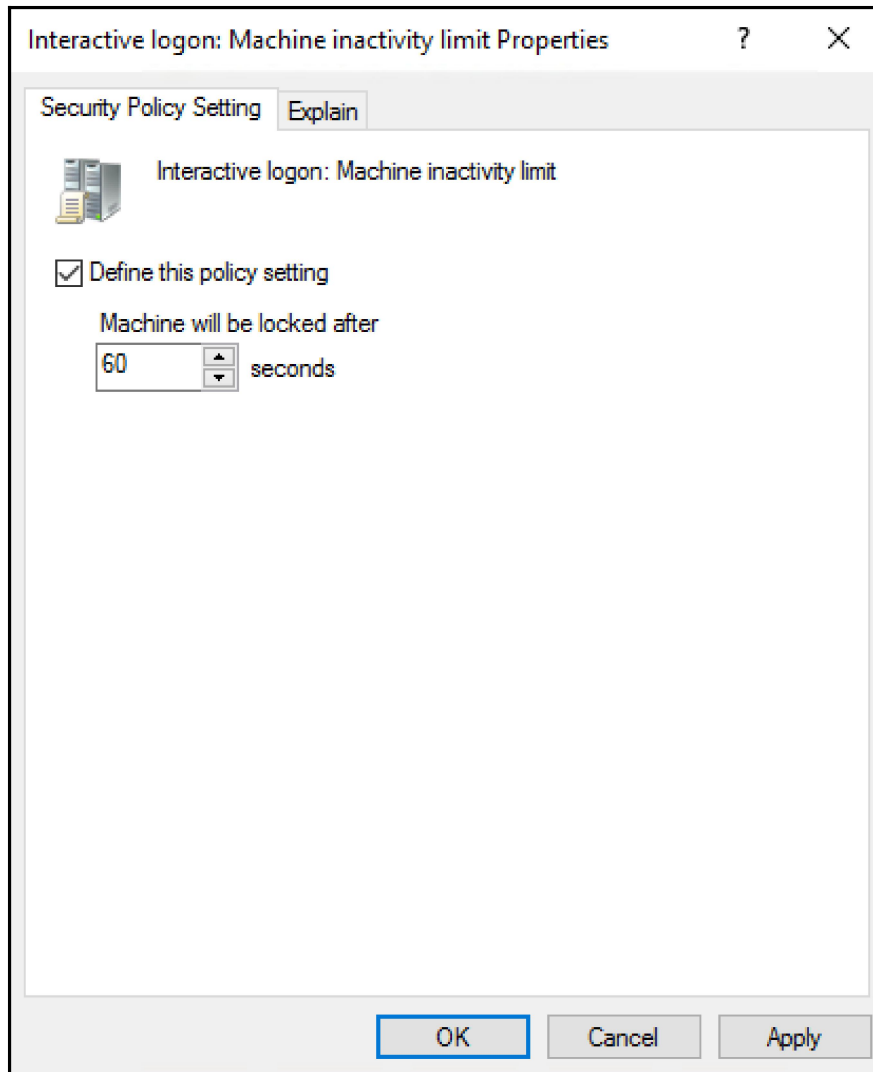
Chapter 05: Deploying Policy Settings

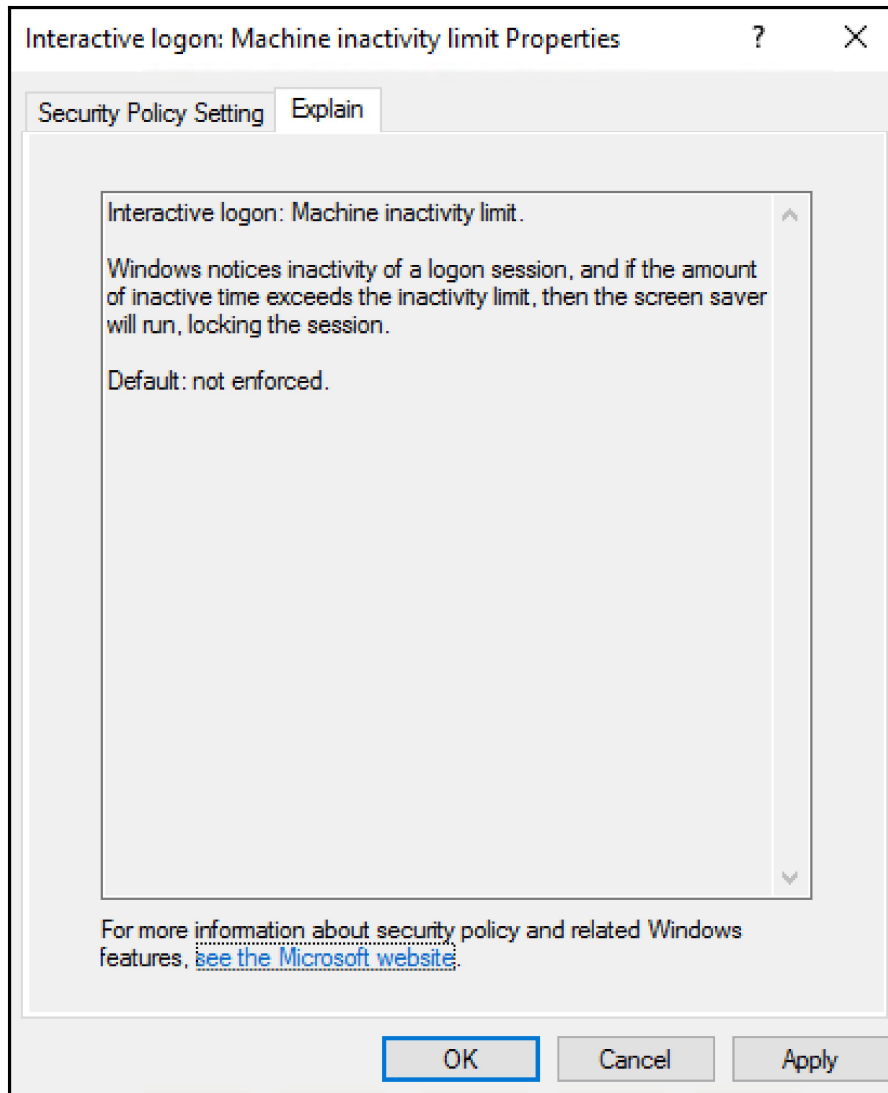


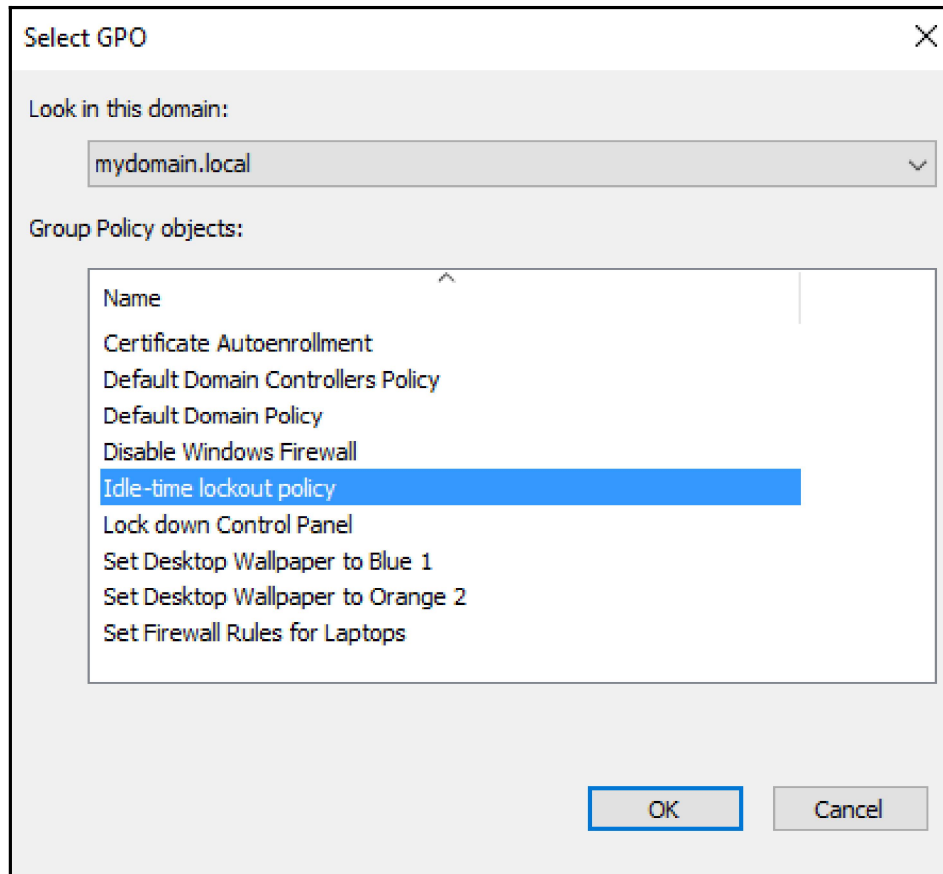












```
Administrator: Command Prompt

COMPUTER SETTINGS
-----
CN=LAPTOP1,OU=Testing GPOs,DC=mydomain,DC=local
Last time Group Policy was applied: 9/25/2018 at 6:49:37 AM
Group Policy was applied from: DC1.mydomain.local
Group Policy slow link threshold: 500 kbps
Domain Name: MYDOMAIN
Domain Type: Windows 2008 or later

Applied Group Policy Objects
-----
Idle-time lockout policy
Default Domain Policy
```



Idle-time lockout policy [DC1.MYDOMAIN.]

- Computer Configuration
 - Policies
 - Preferences
- User Configuration
 - Policies
 - Software Settings
 - Windows Settings
 - Administrative Templates: Policy
 - Control Panel
 - Add or Remove Program
 - Display
 - Personalization
 - Printers
 - Programs
 - Regional and Language C...
 - Desktop
 - Network
 - Shared Folders
 - Start Menu and Taskbar
 - System
 - Windows Components
 - All Settings
 - Preferences

Personalization

Password protect the screen saver

[Edit policy setting.](#)

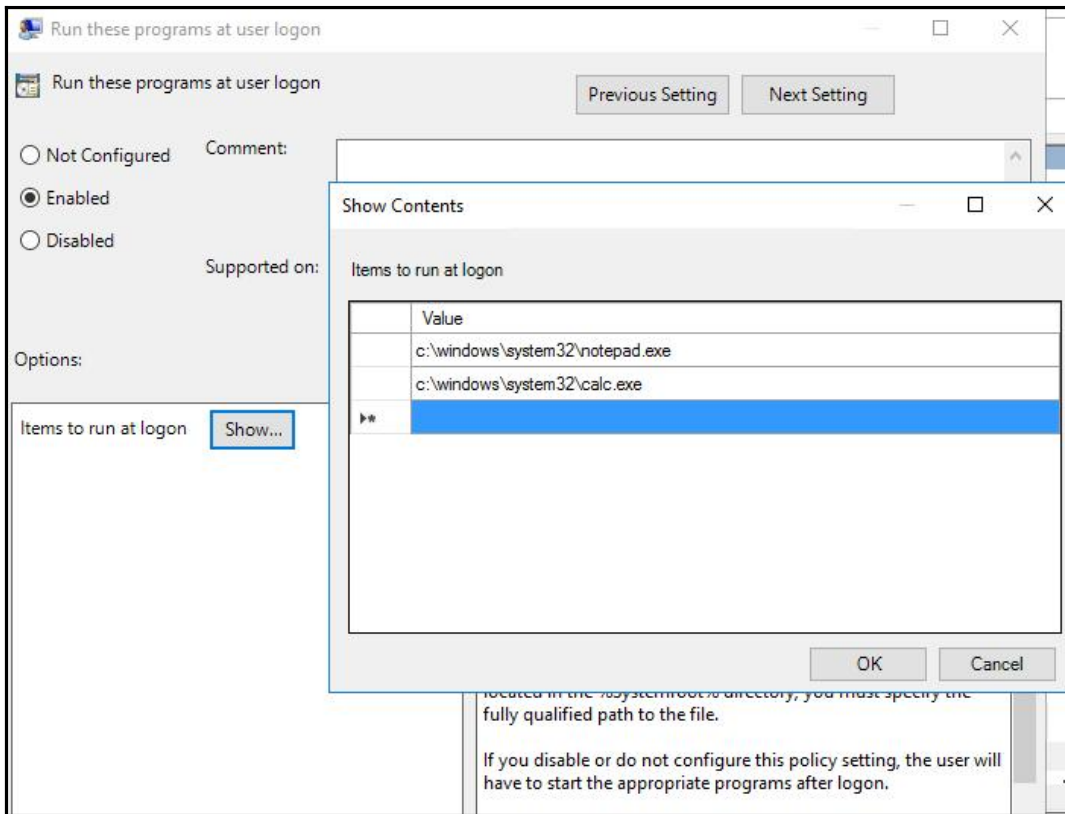
Requirements:
At least Windows 2000 Service Pack 1

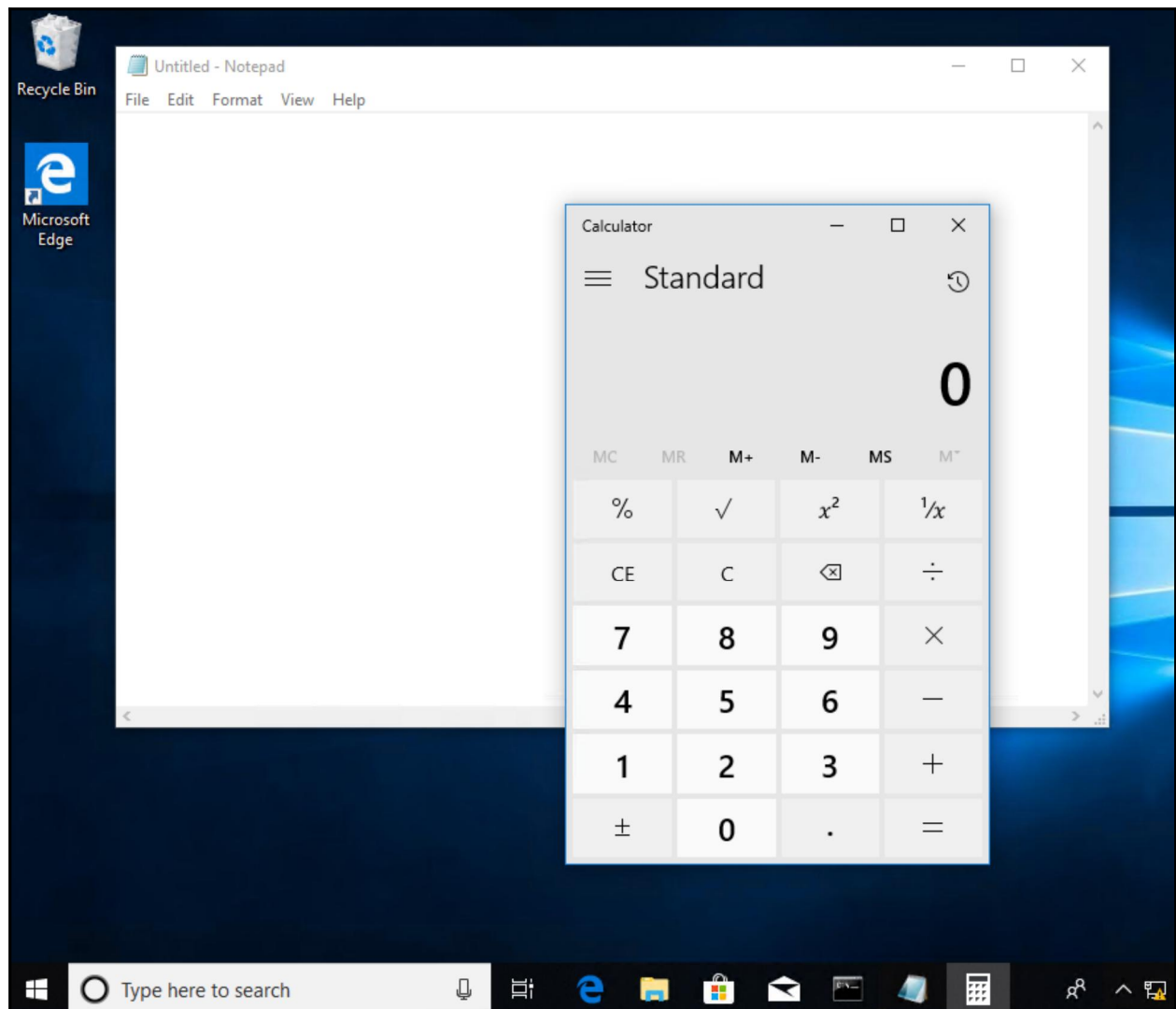
Description:
Determines whether screen savers used on the computer are password protected.

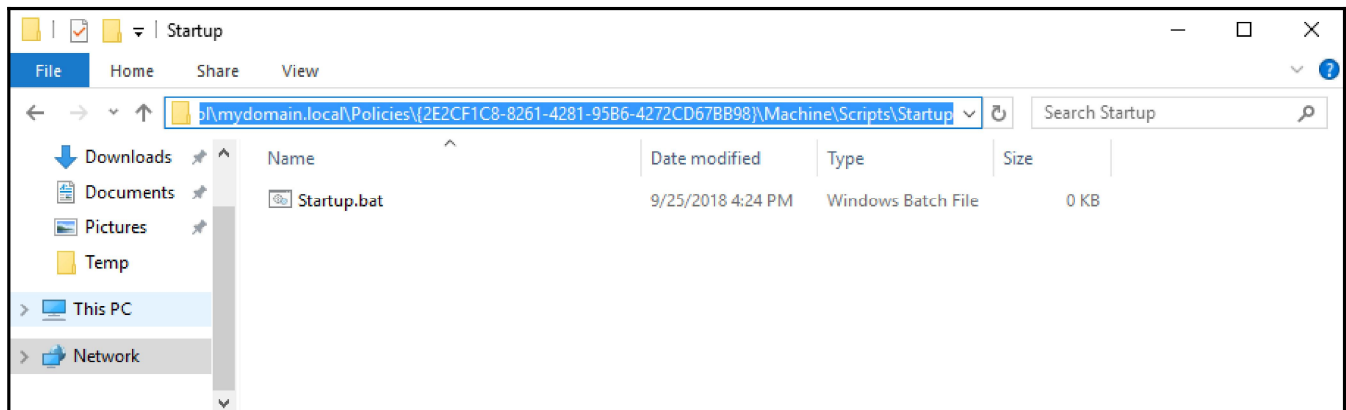
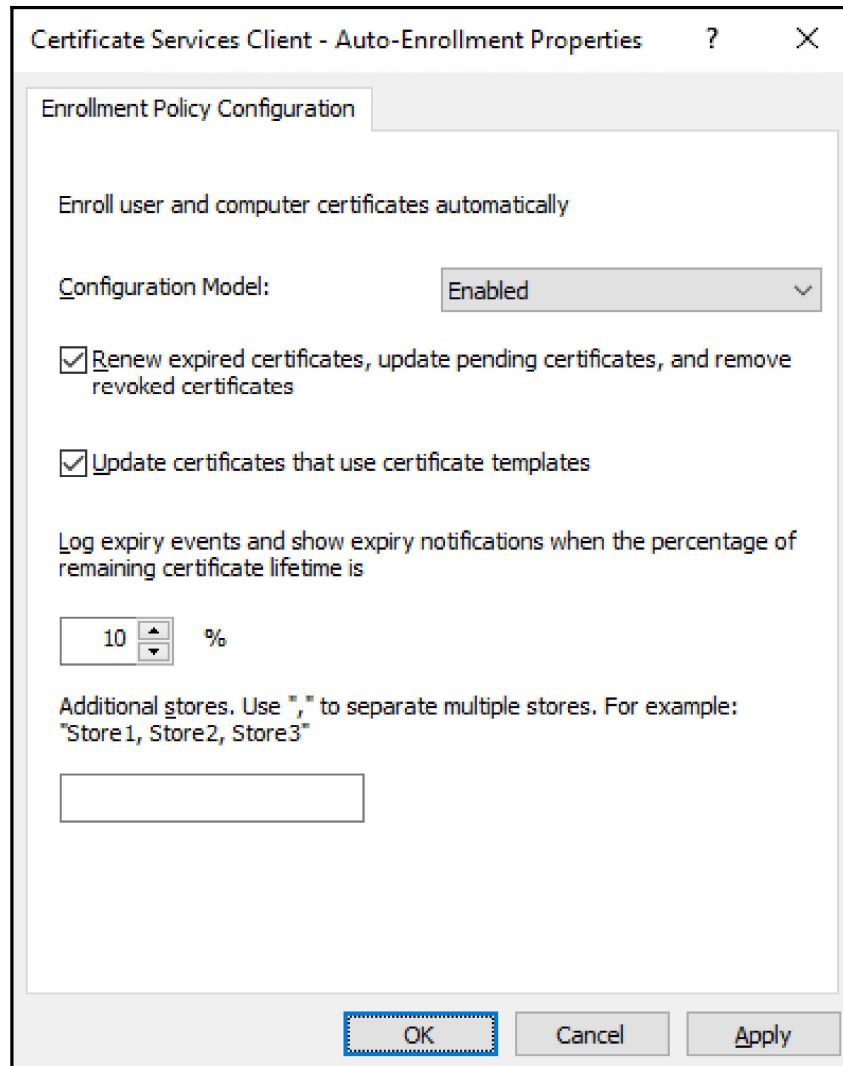
If you enable this setting, all screen savers are password protected. If you disable this setting, password protection cannot be set on any screen saver.

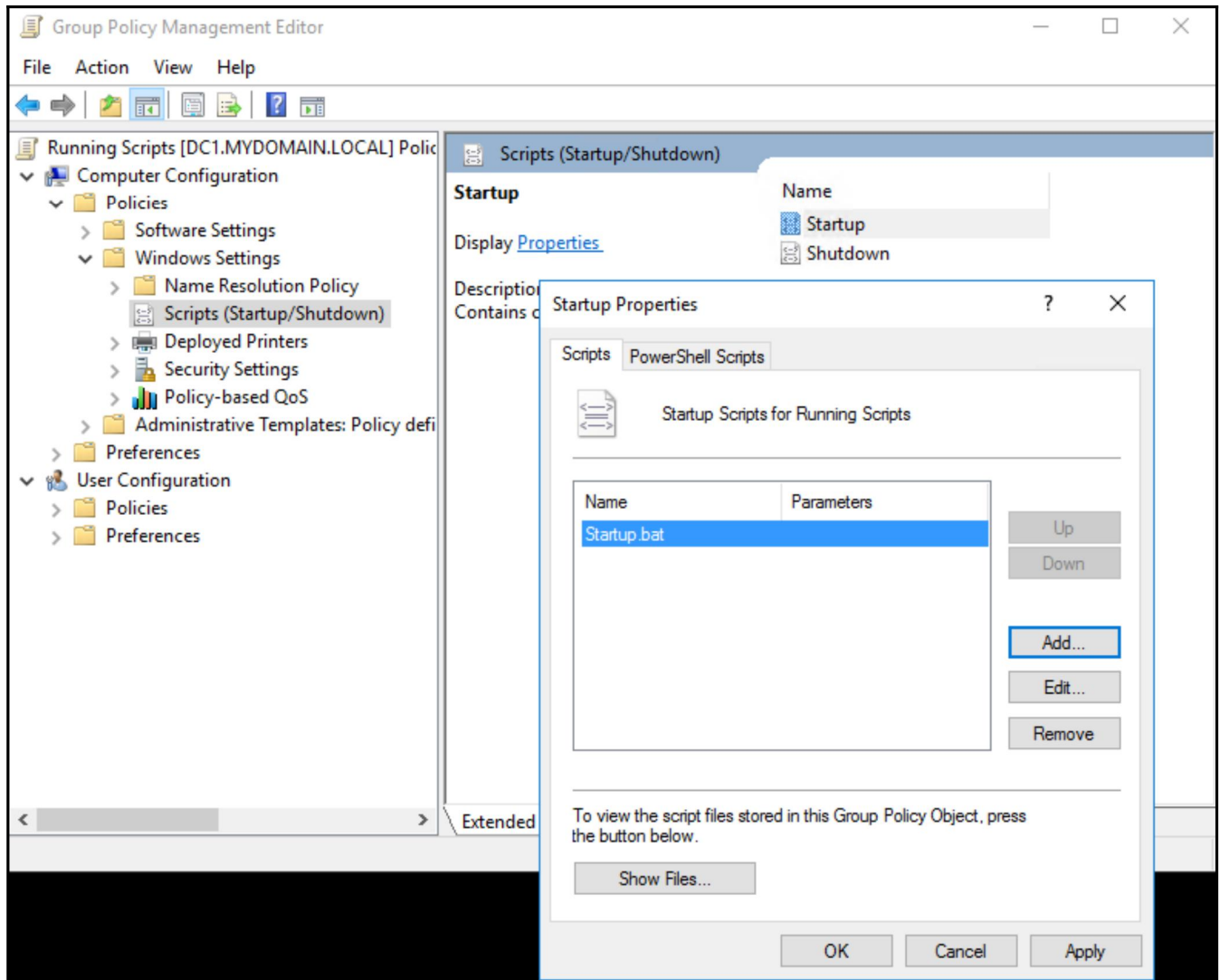
This setting also disables the "Password protected" checkbox on the Screen Saver dialog in the Personalization or Display Control Panel, preventing users from changing the password protection setting.

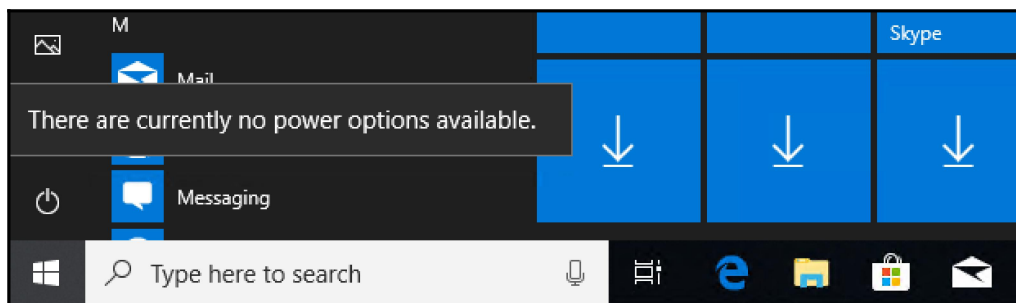
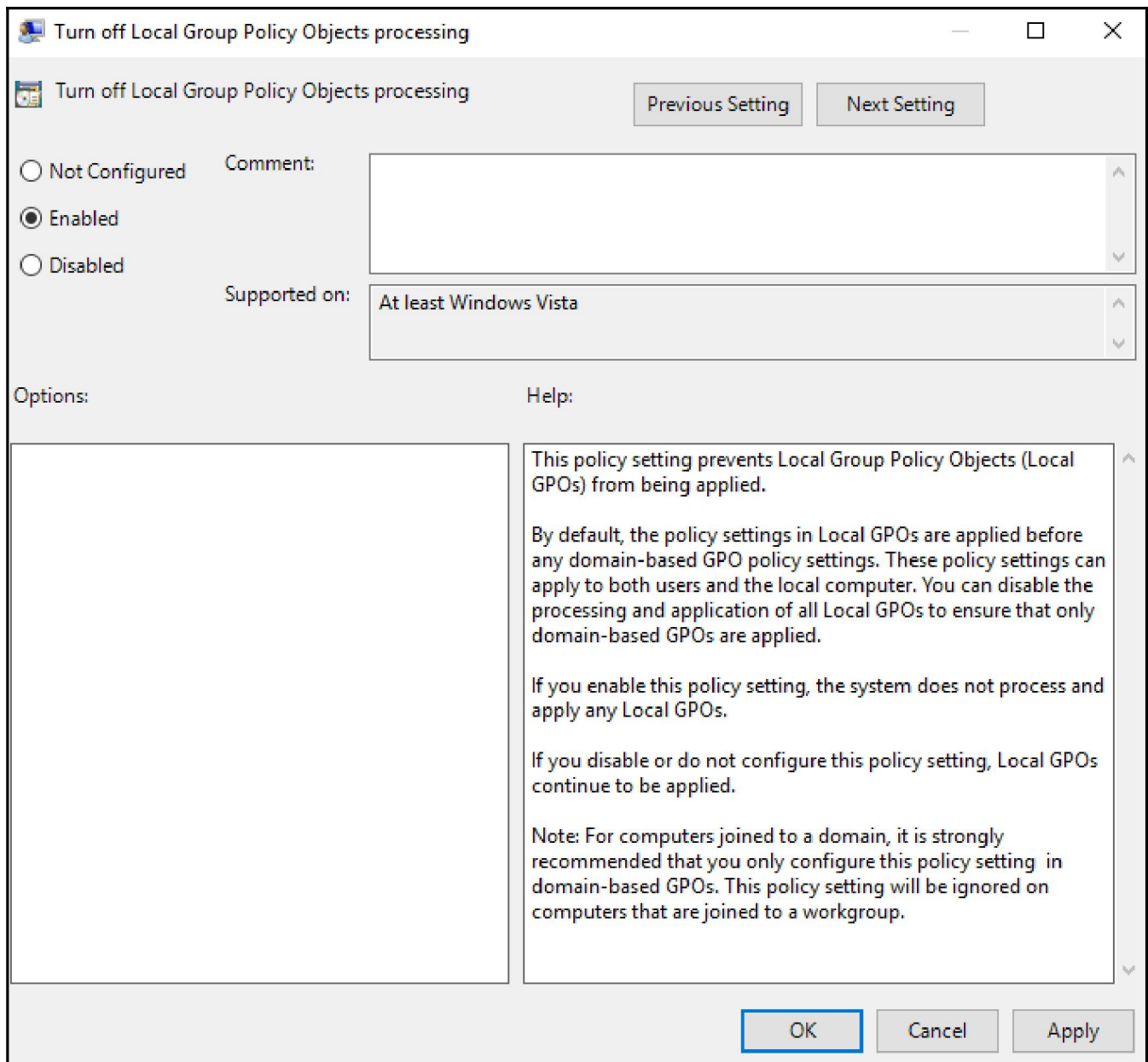
Setting	State
Prevent changing color scheme	Not configured
Prevent changing theme	Not configured
Prevent changing visual style for windows a...	Not configured
Enable screen saver	Enabled
Prohibit selection of visual style font size	Not configured
Prevent changing color and appearance	Not configured
Prevent changing desktop background	Not configured
Prevent changing desktop icons	Not configured
Prevent changing mouse pointers	Not configured
Prevent changing screen saver	Not configured
Prevent changing sounds	Not configured
Password protect the screen saver	Enabled
Screen saver timeout	Enabled
Force specific screen saver	Enabled
Load a specific theme	Not configured
Force a specific visual style file or force Win...	Not configured

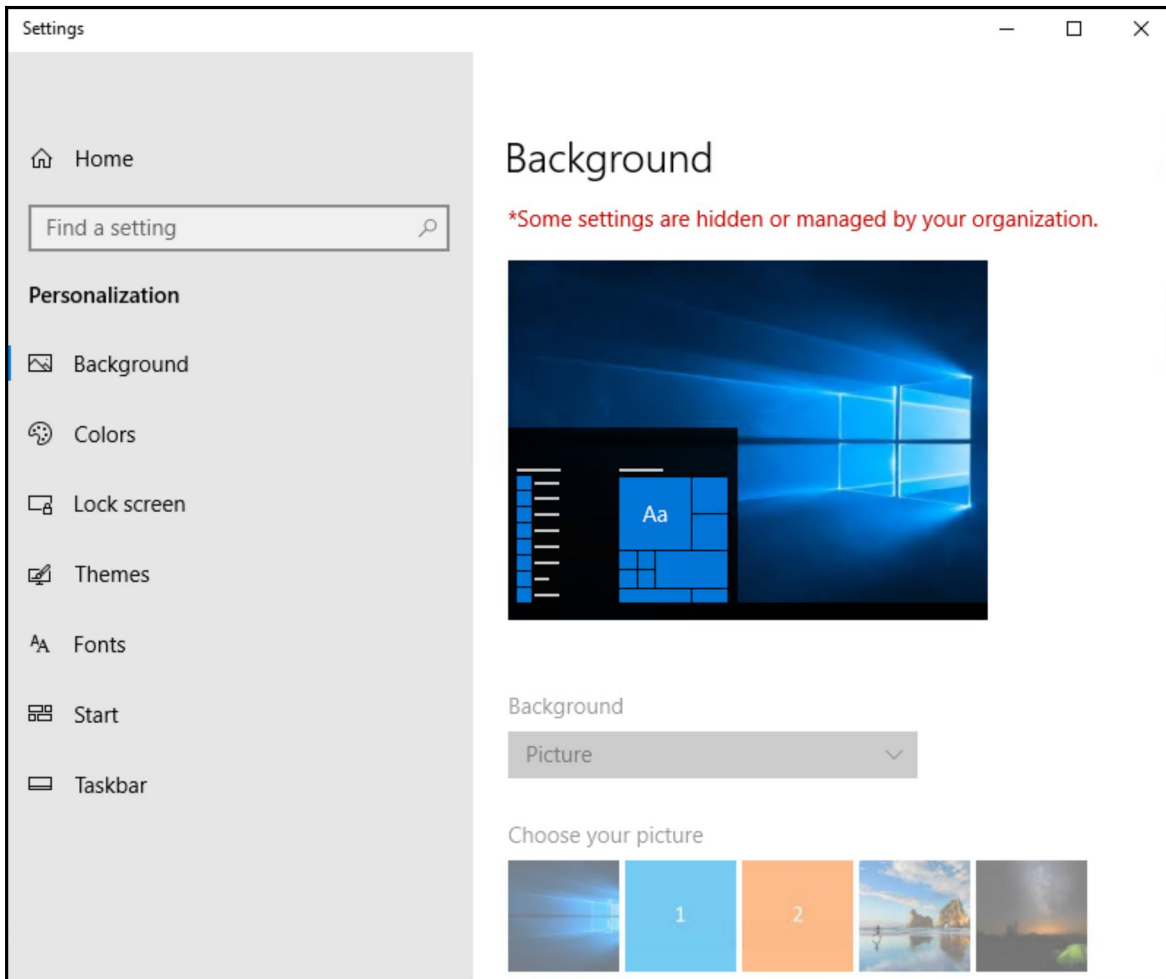


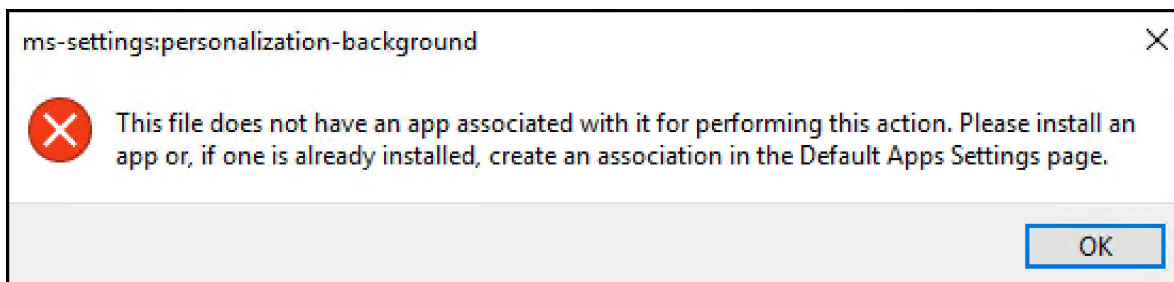
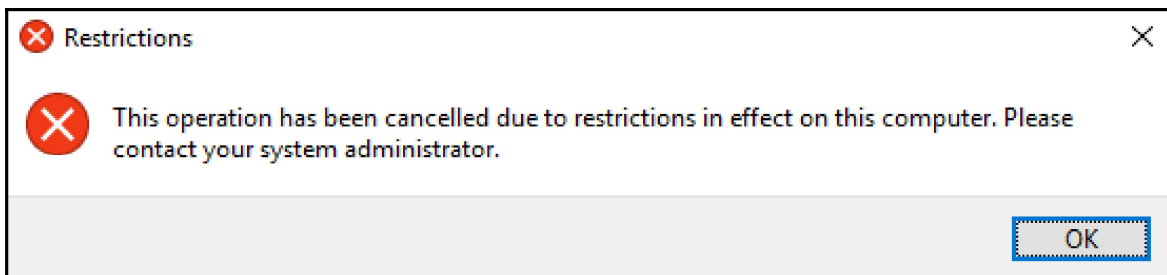
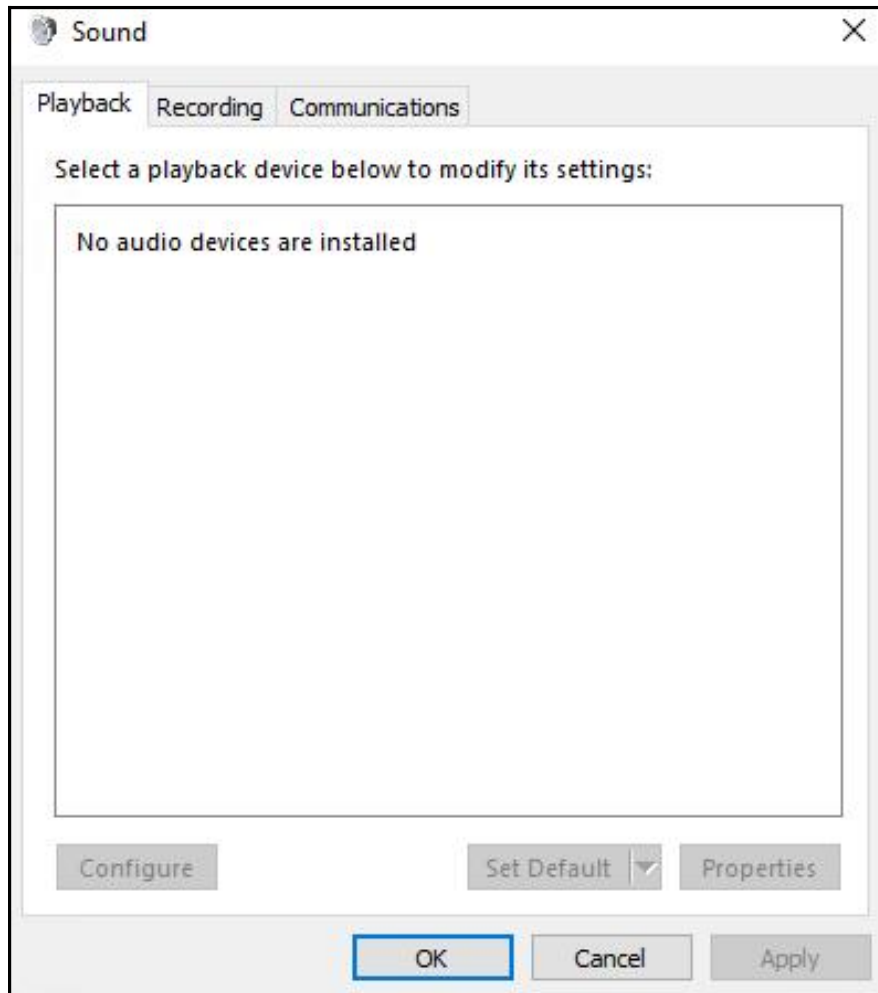


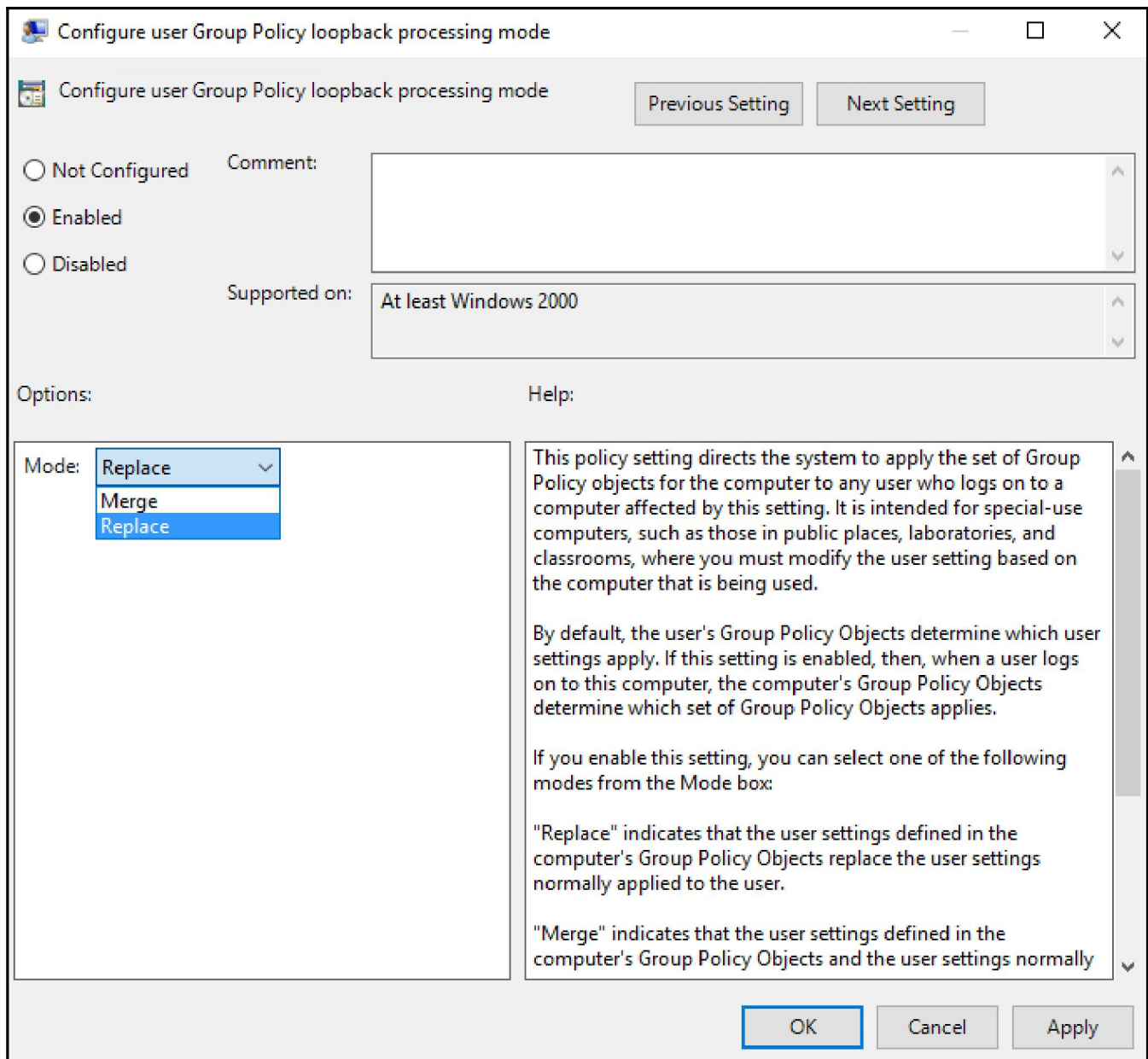




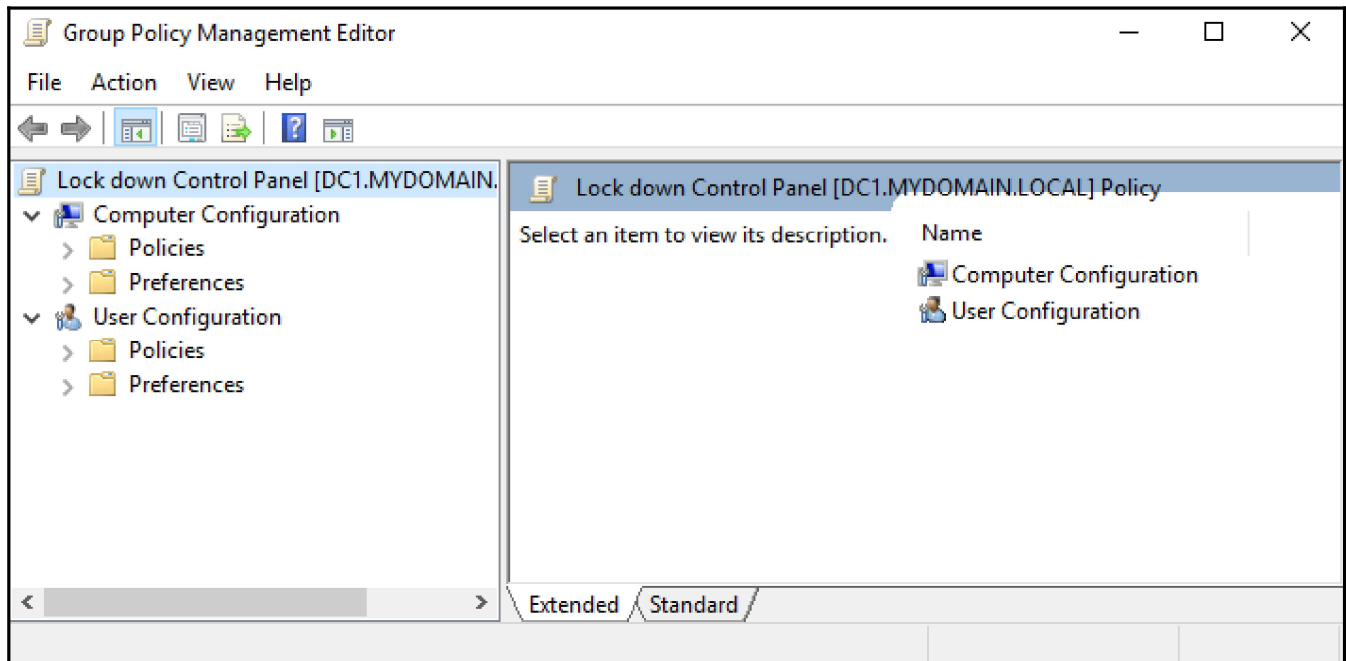


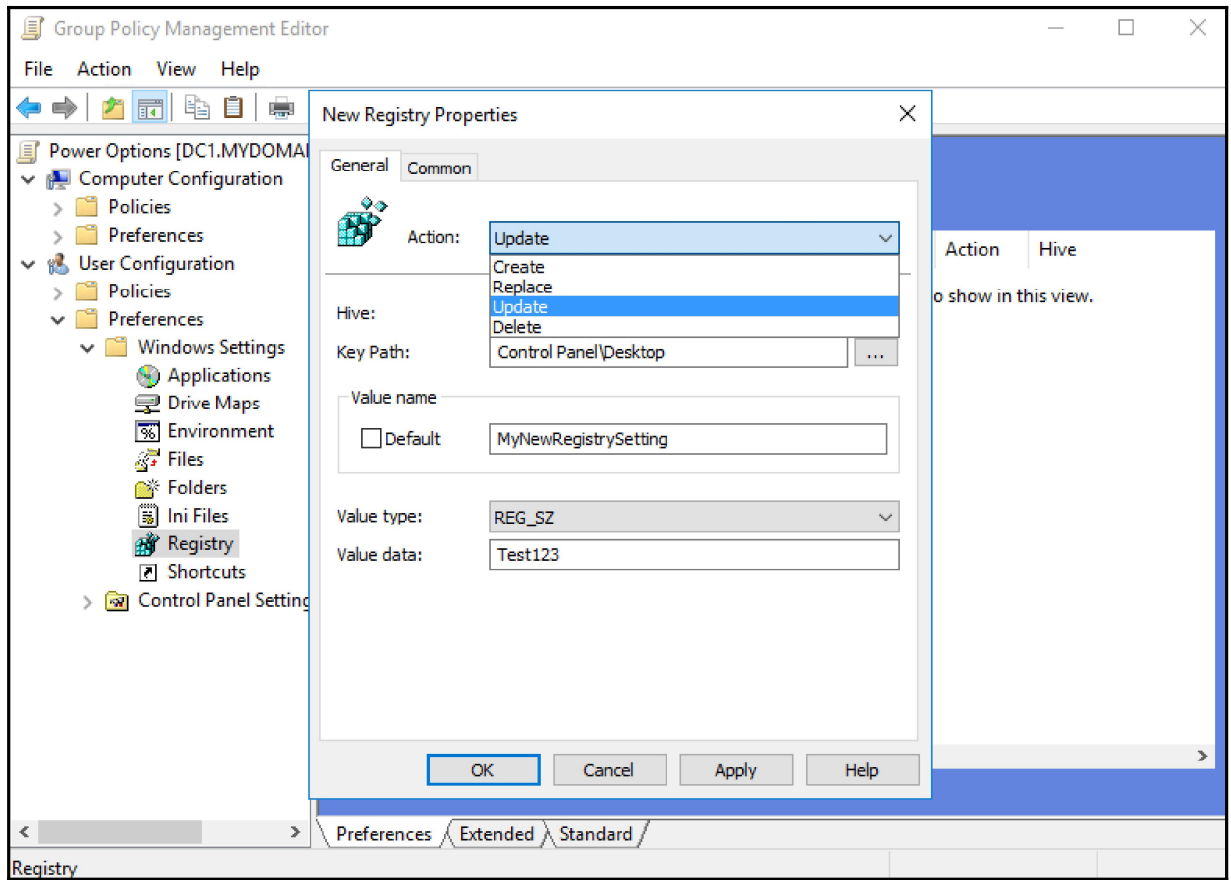


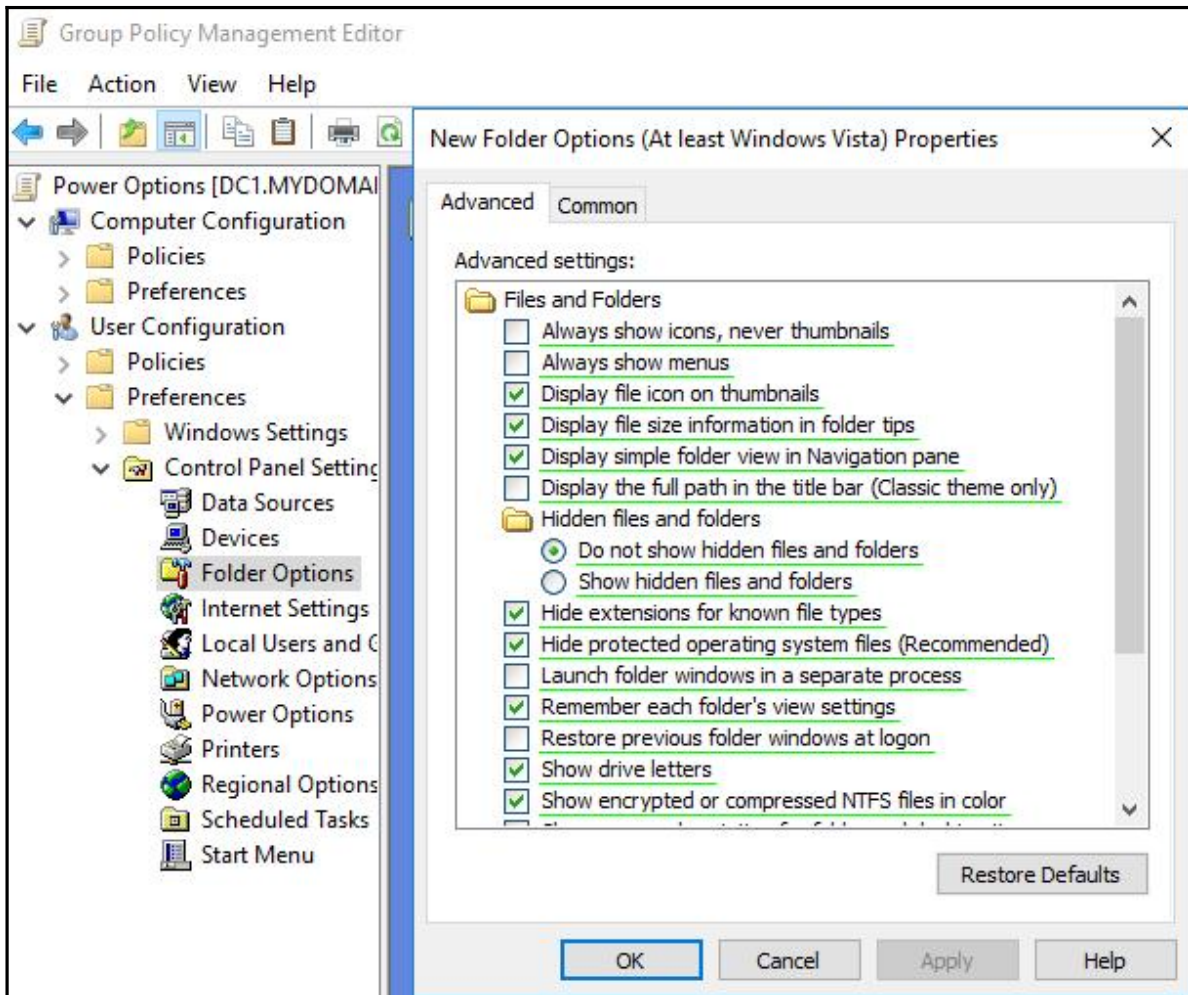


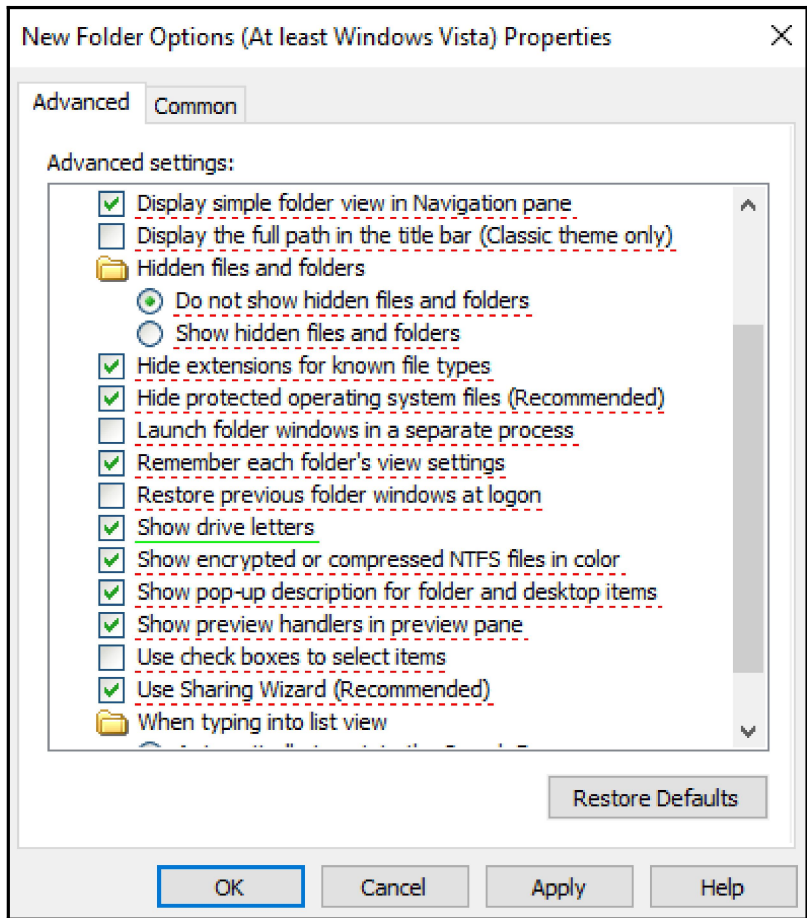


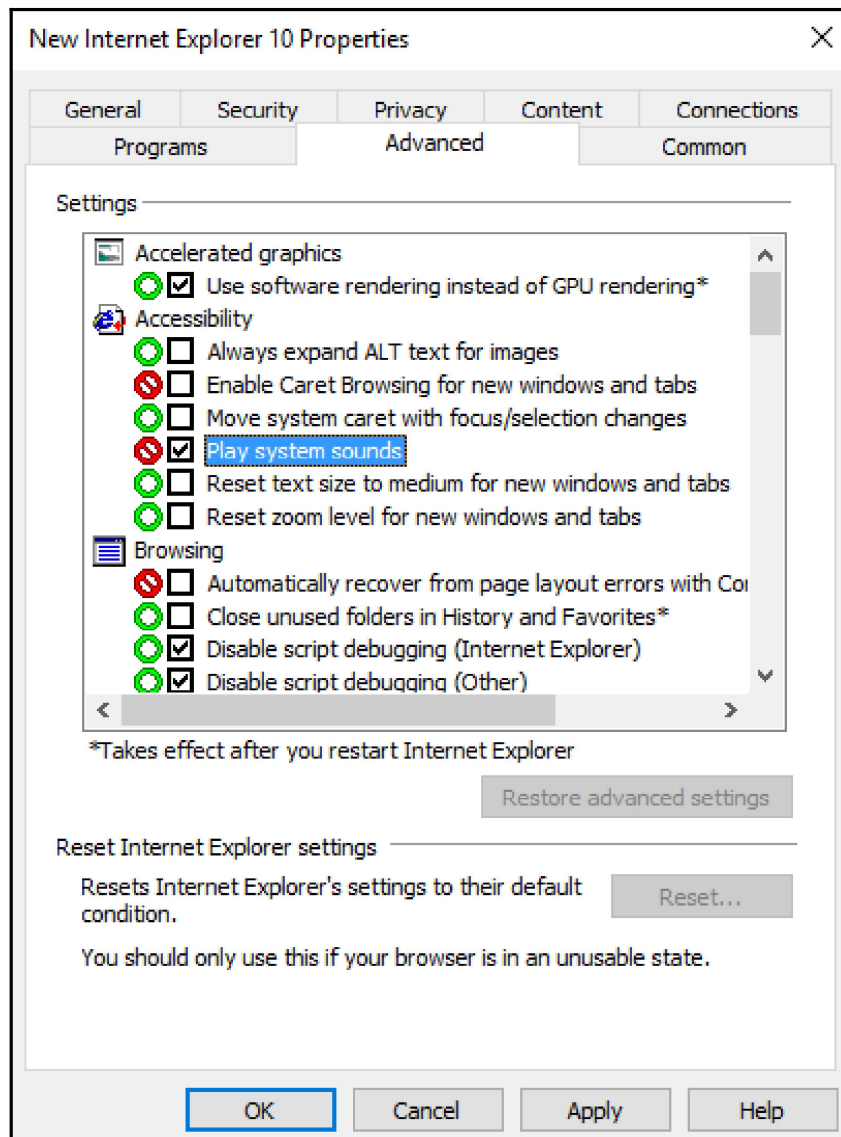
Chapter 06: Group Policy Preferences

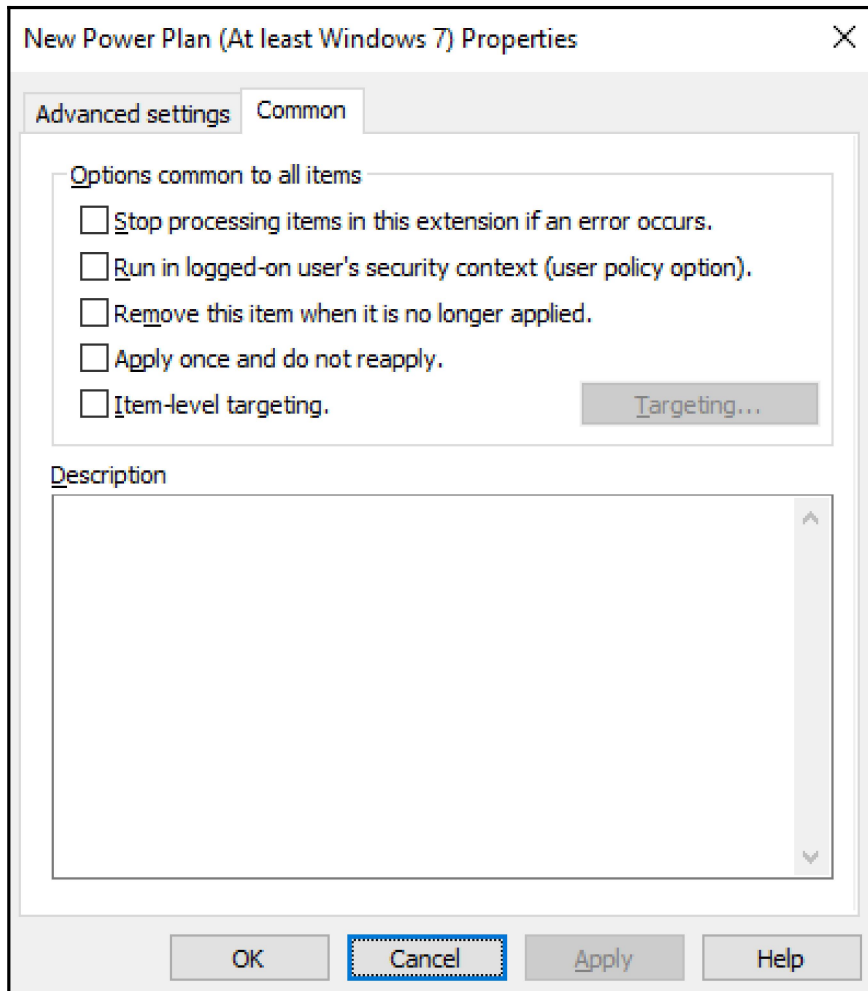


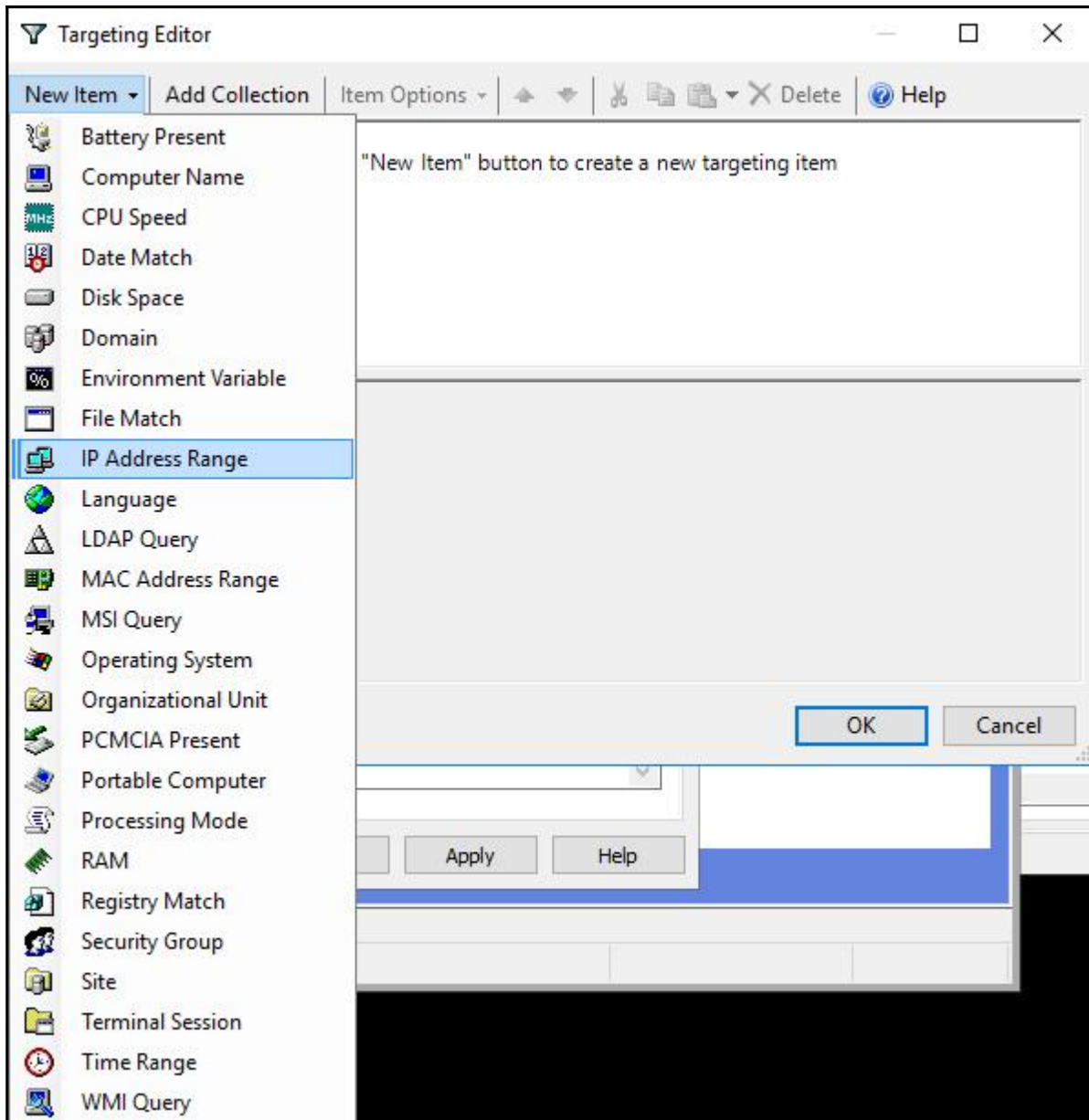


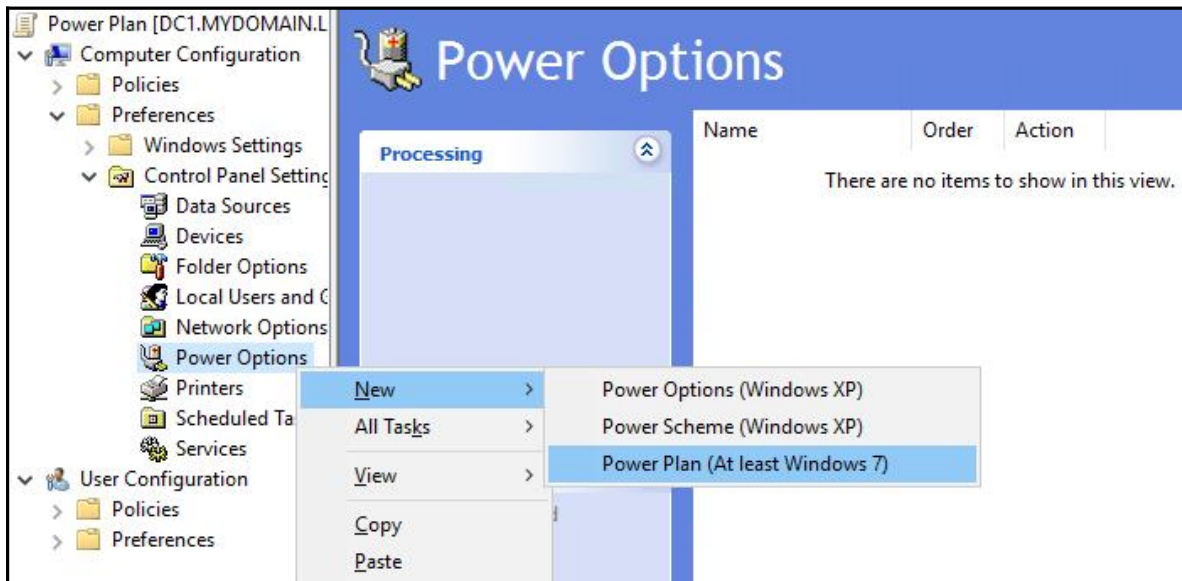
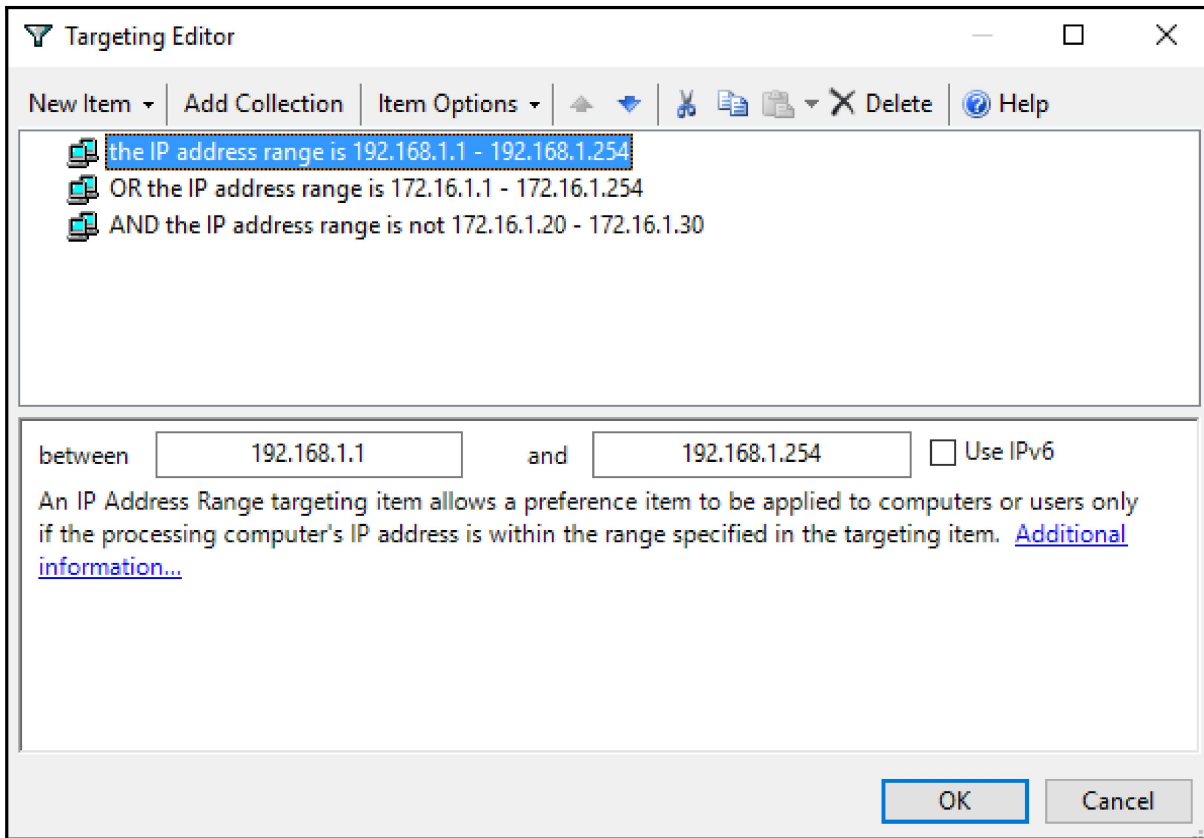


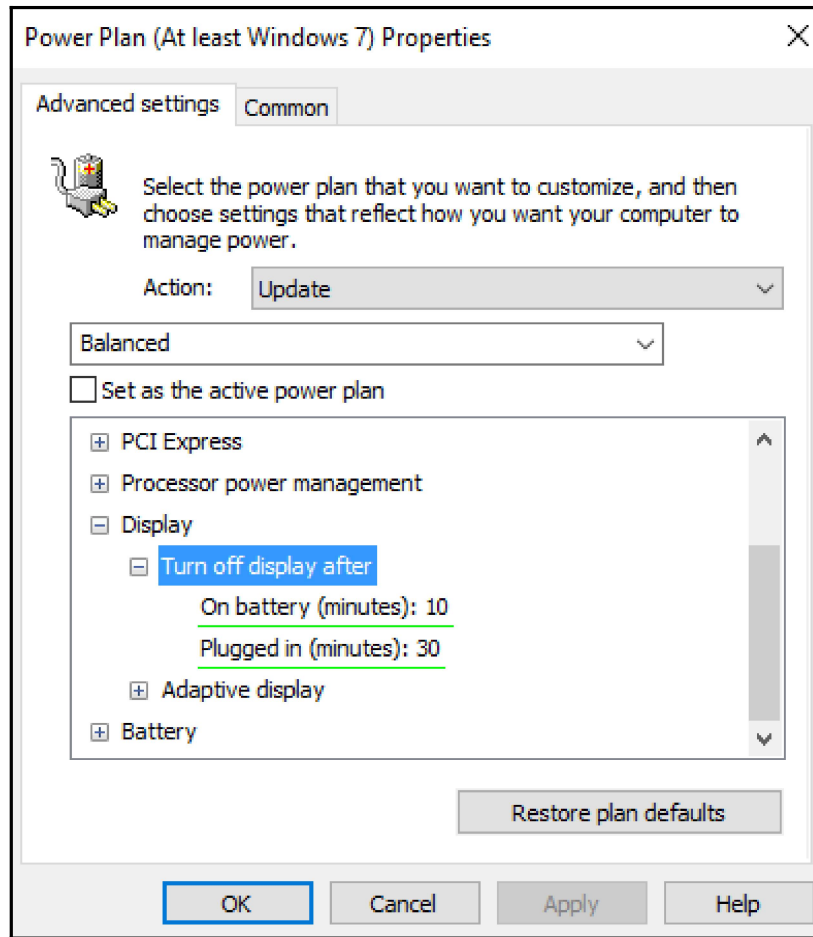


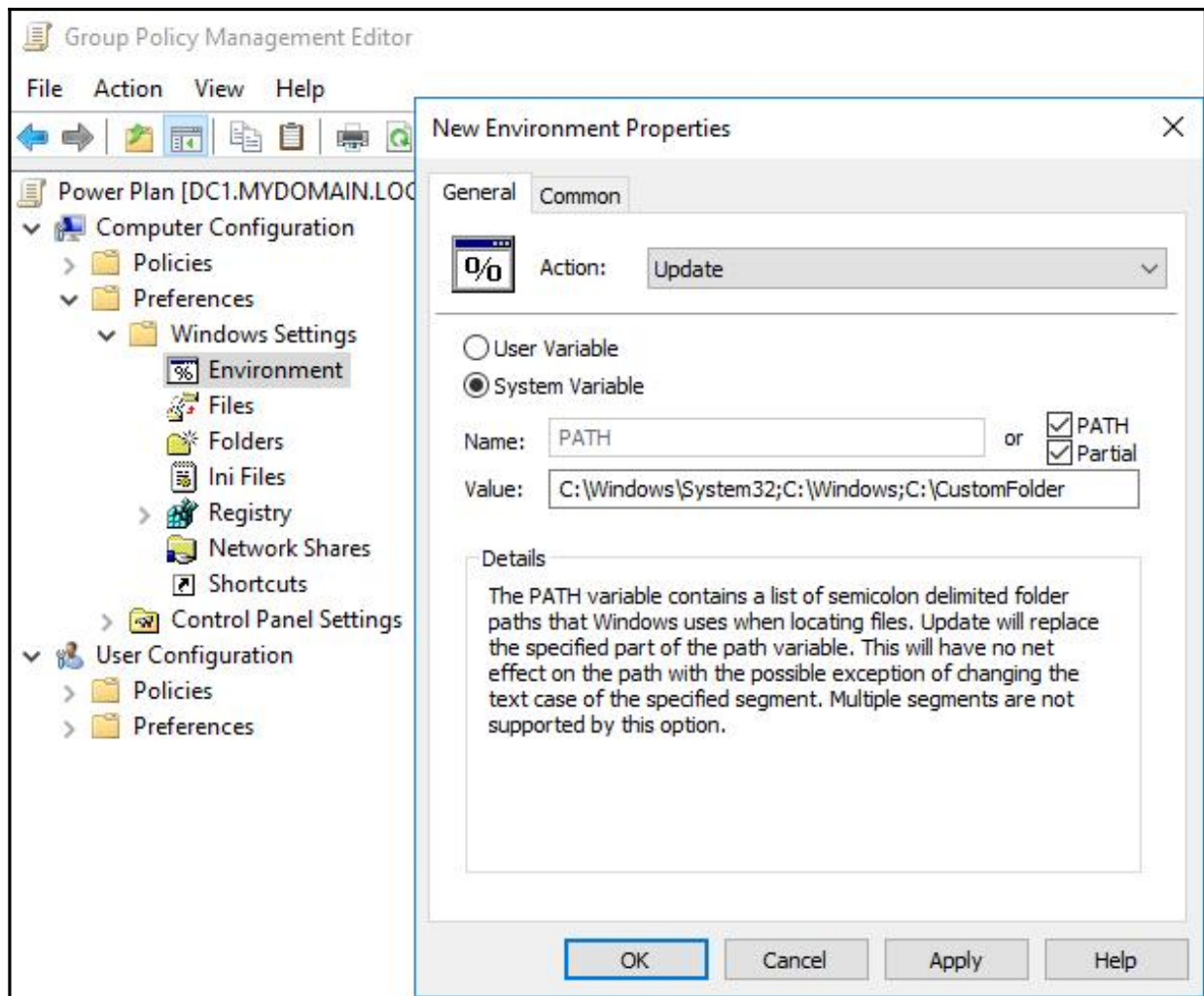


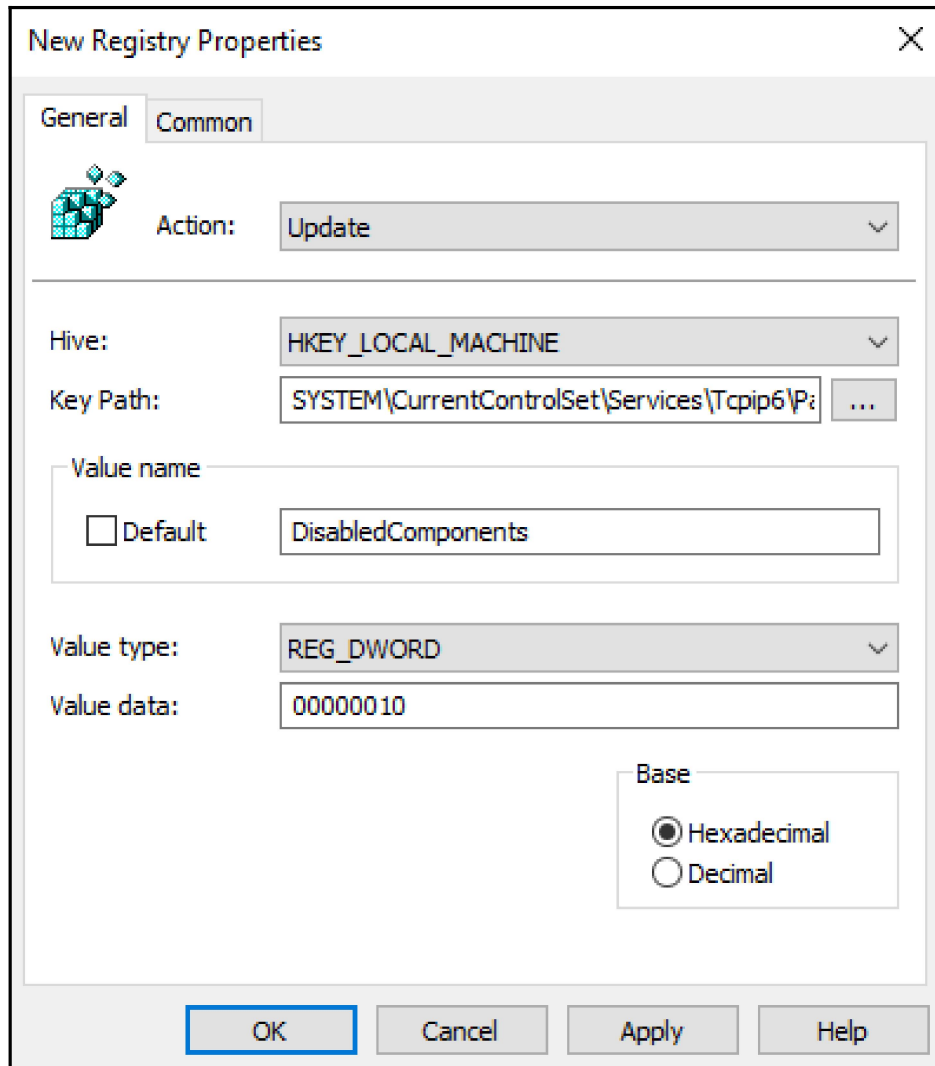


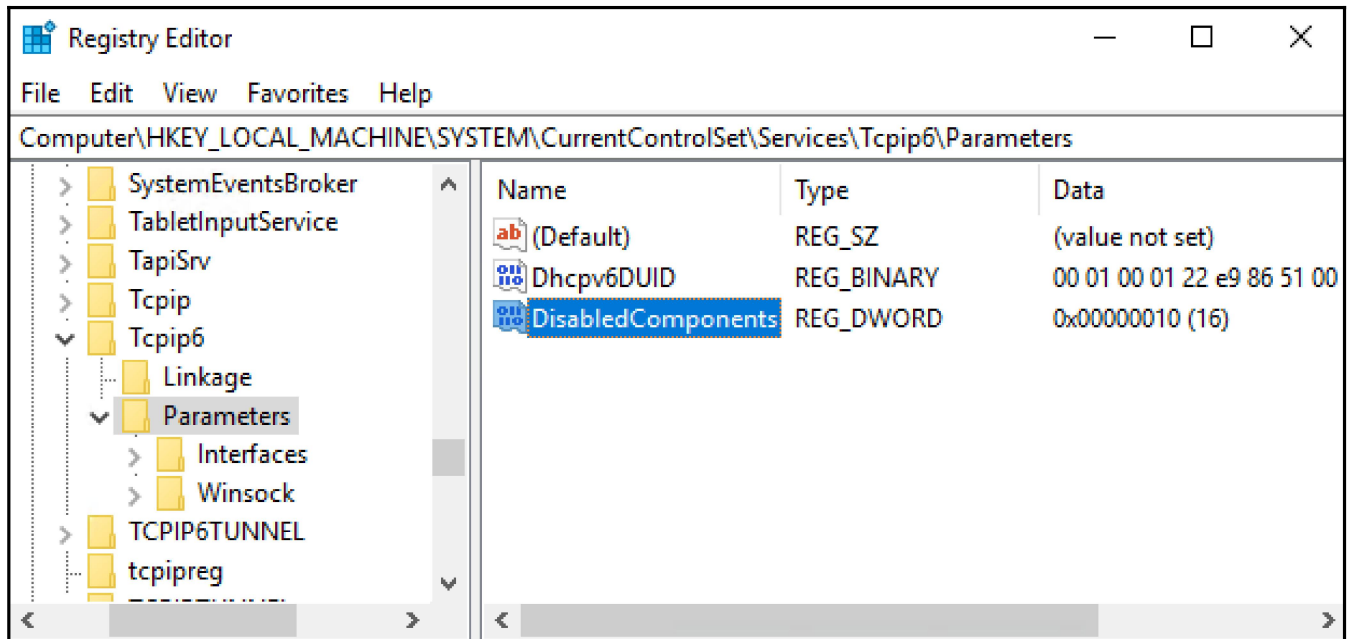


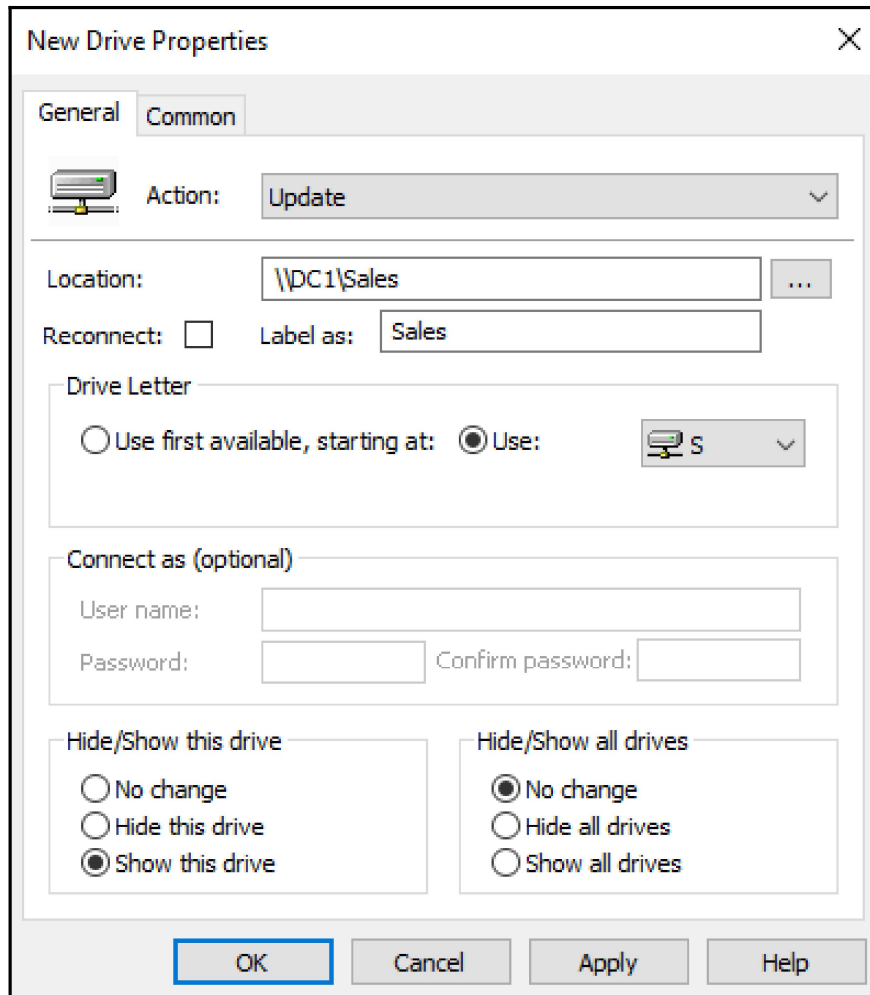


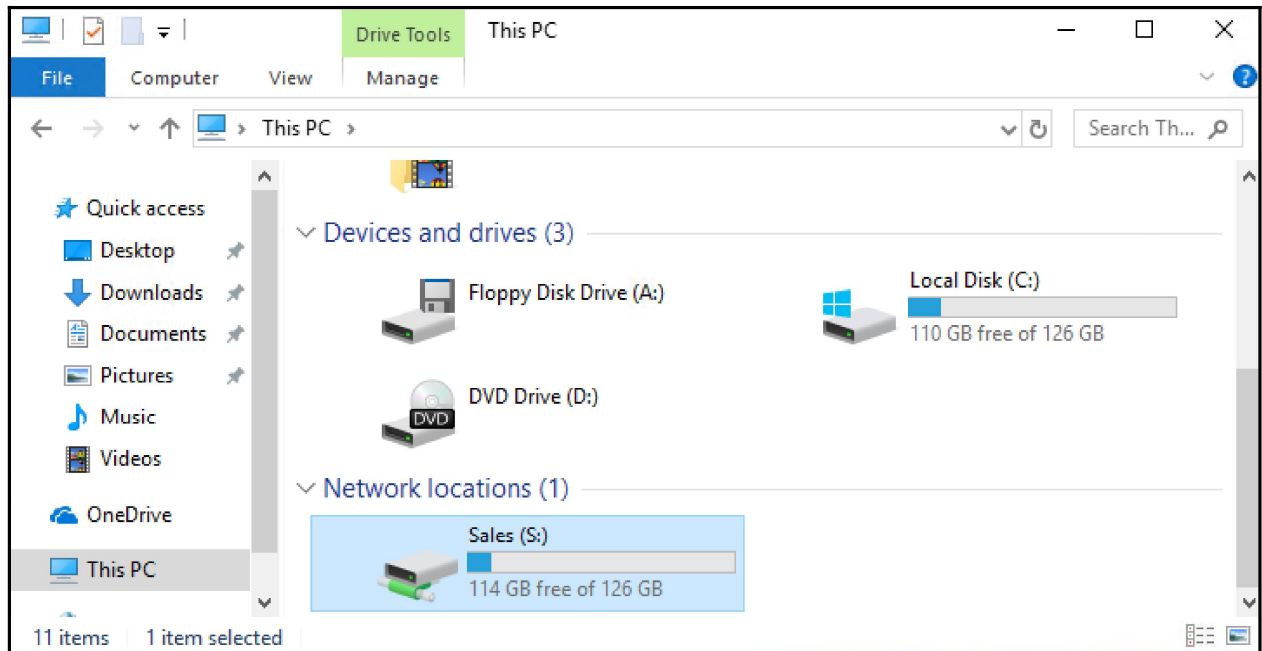


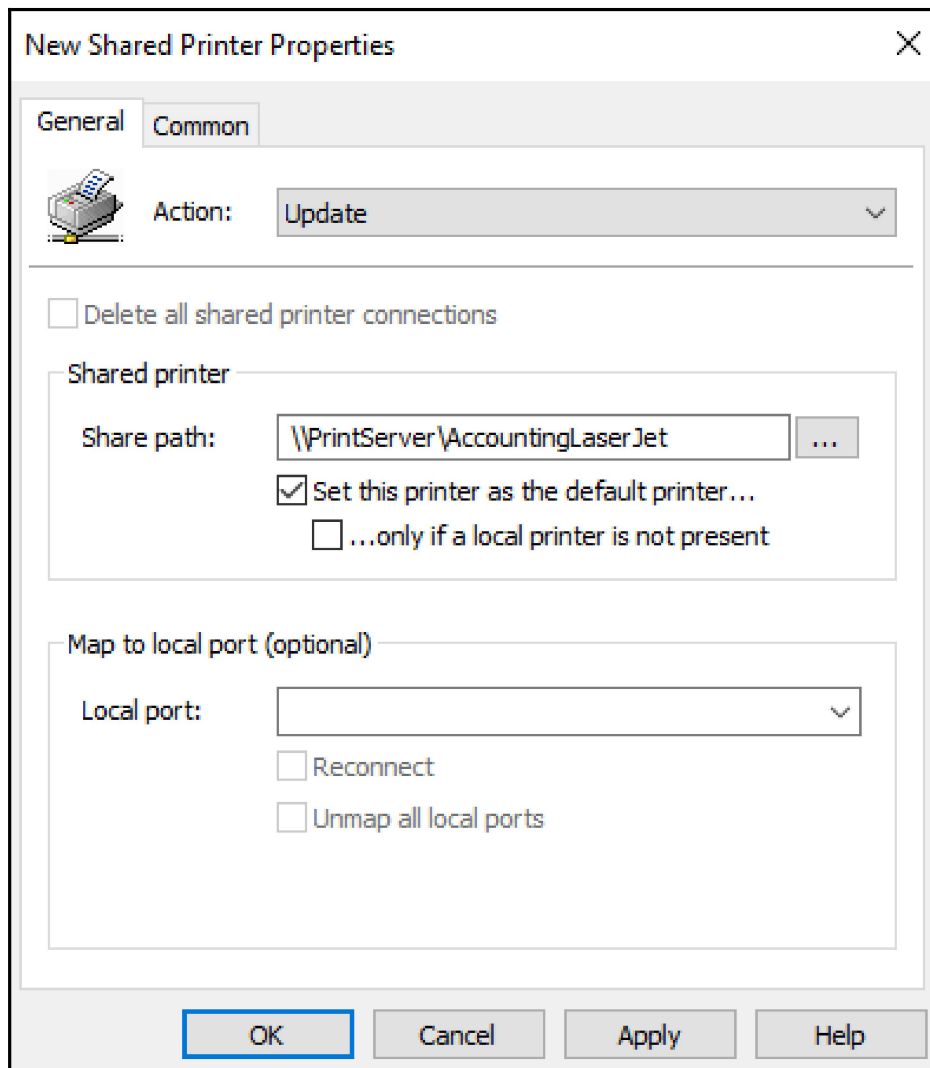


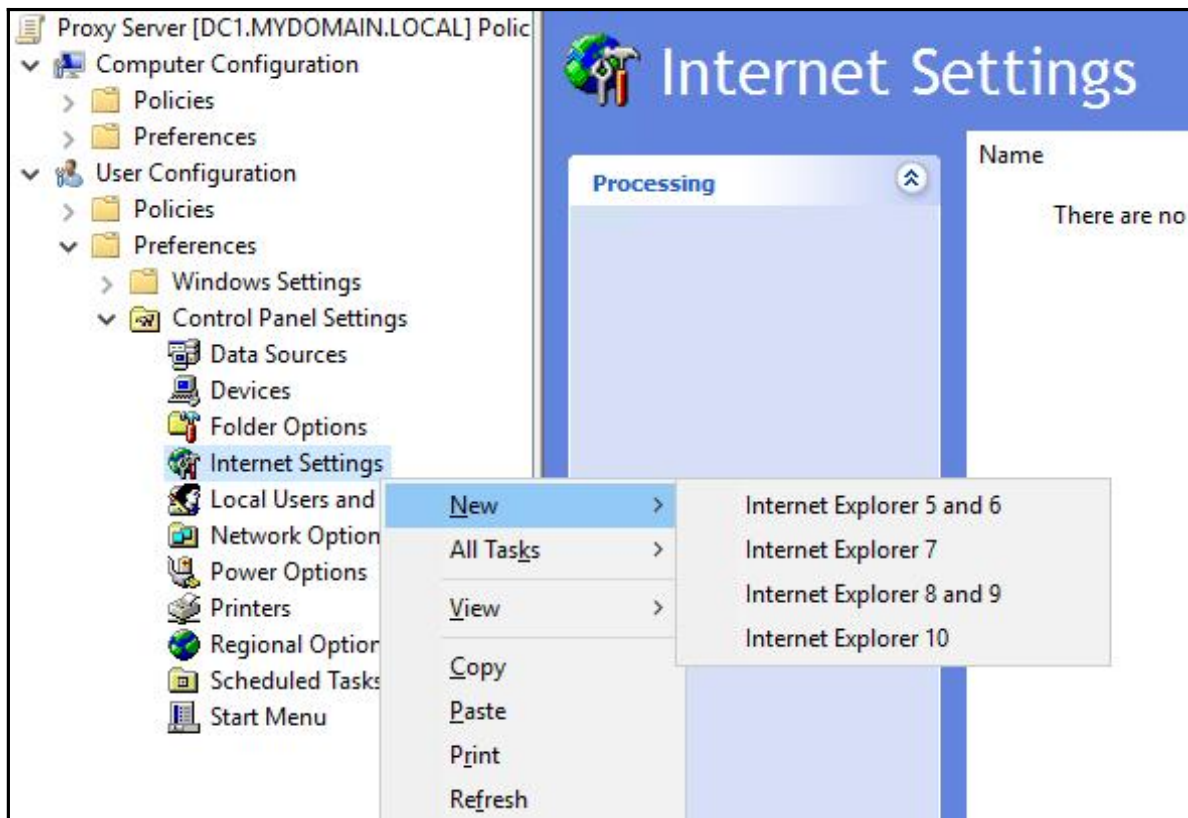


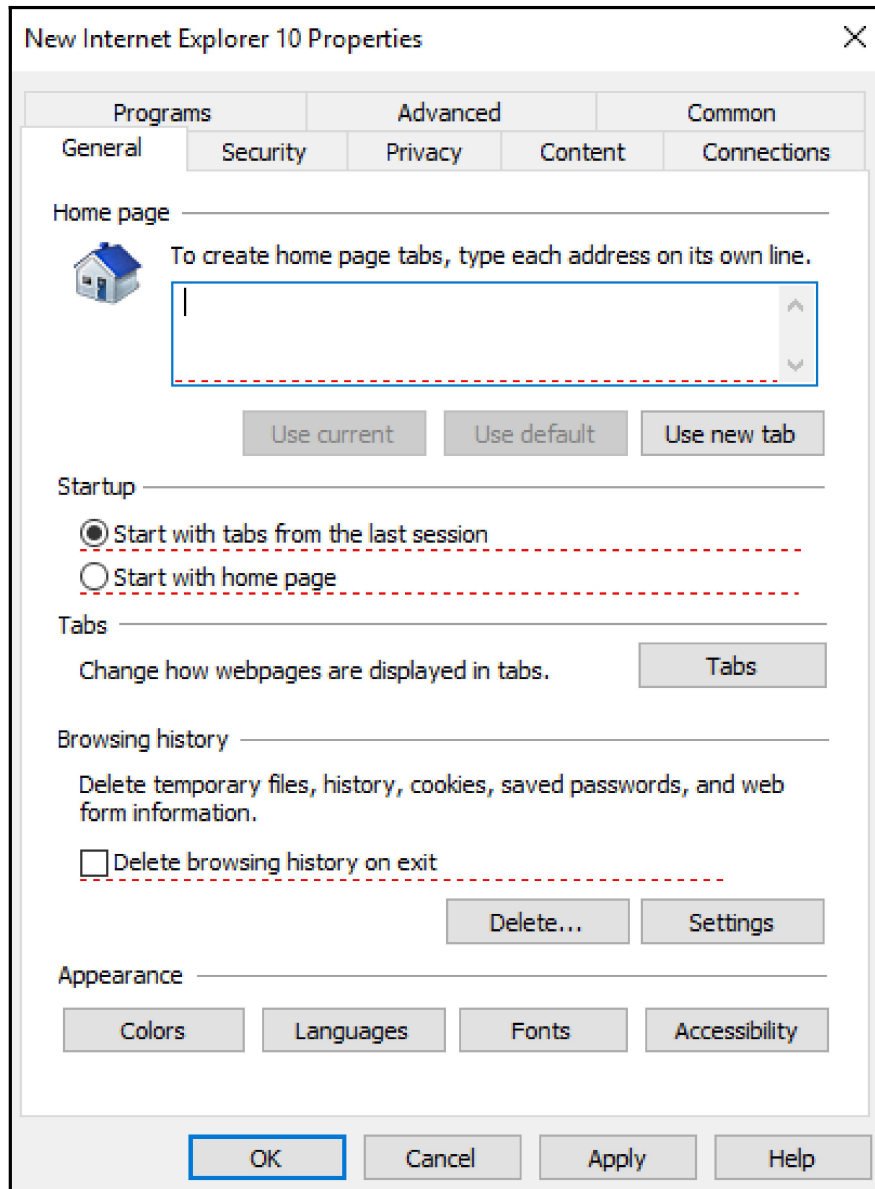


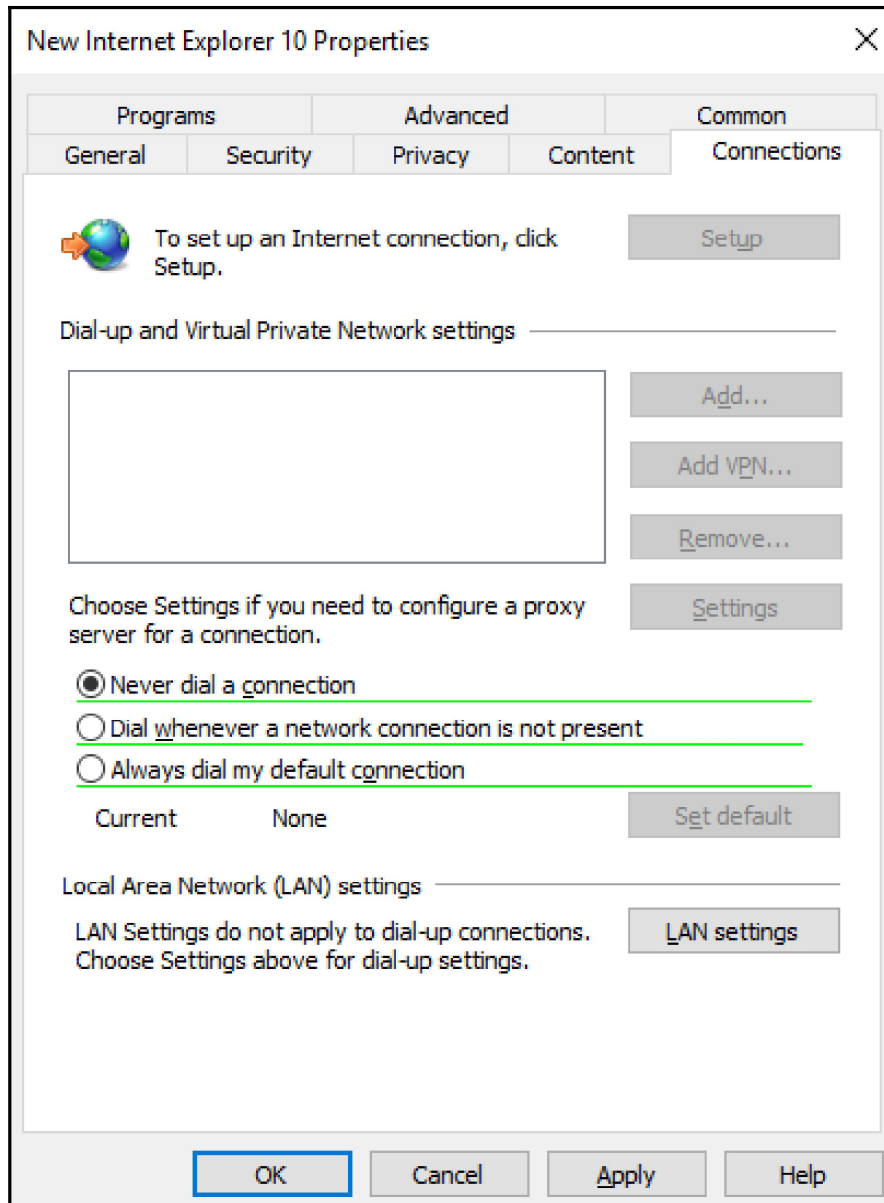












Local Area Network (LAN) Settings

Automatic configuration
Automatic configuration may override manual settings. To ensure the use of manual settings, disable automatic configuration.

Automatically detect settings

Use automatic configuration script

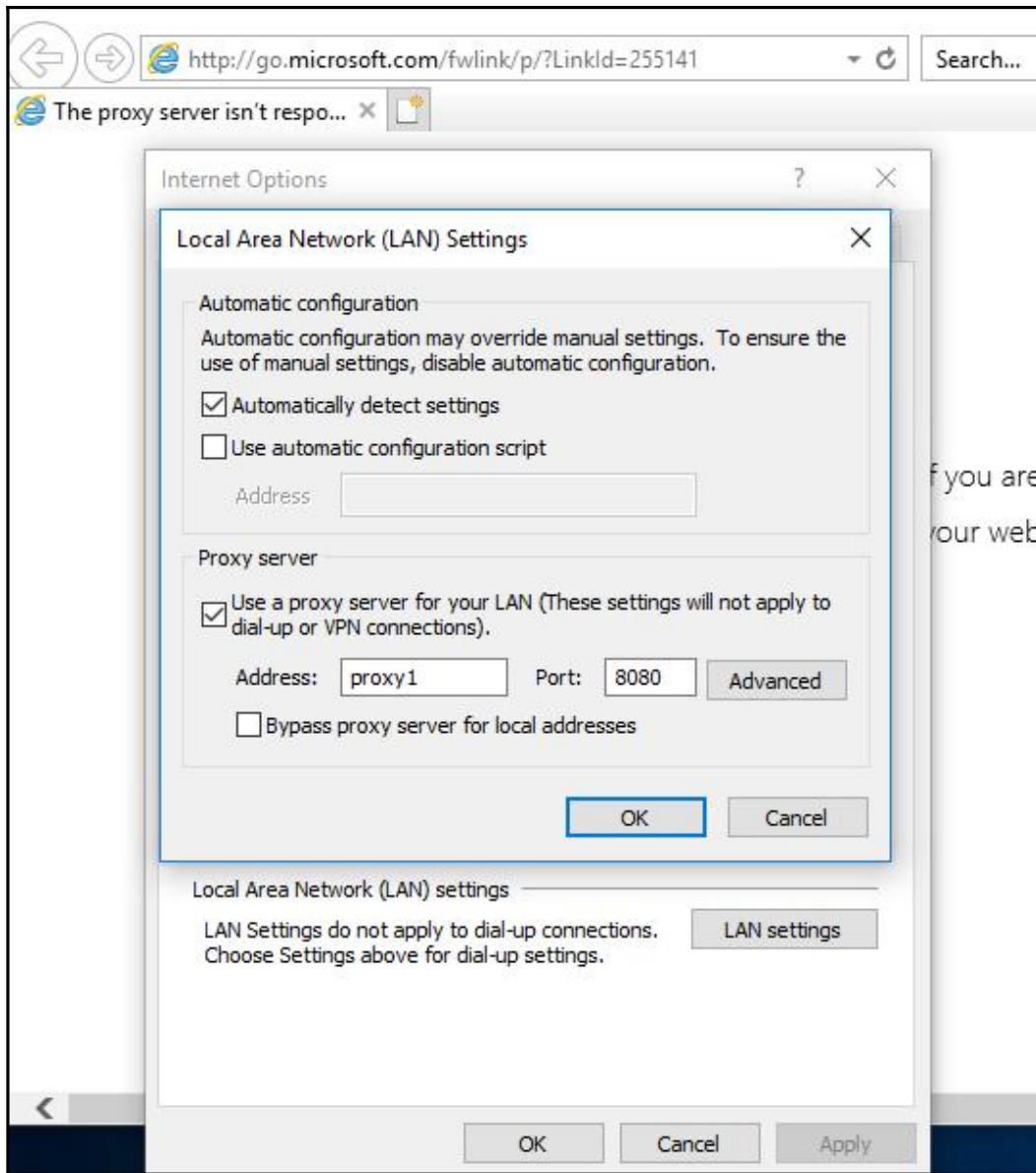
Address:

Proxy server

Use a proxy server for your LAN (These settings will not apply to dial-up or VPN connections).

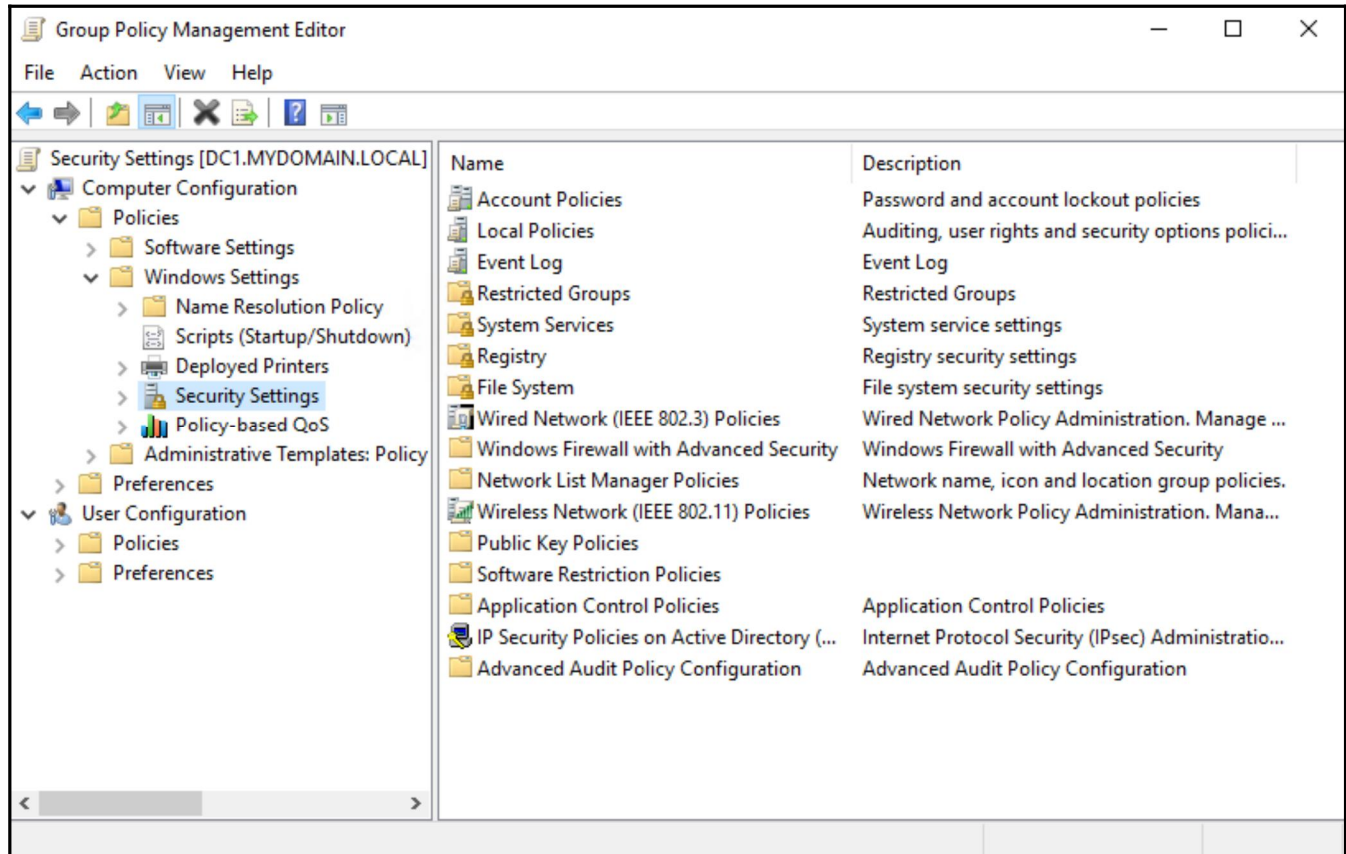
Address: Port:

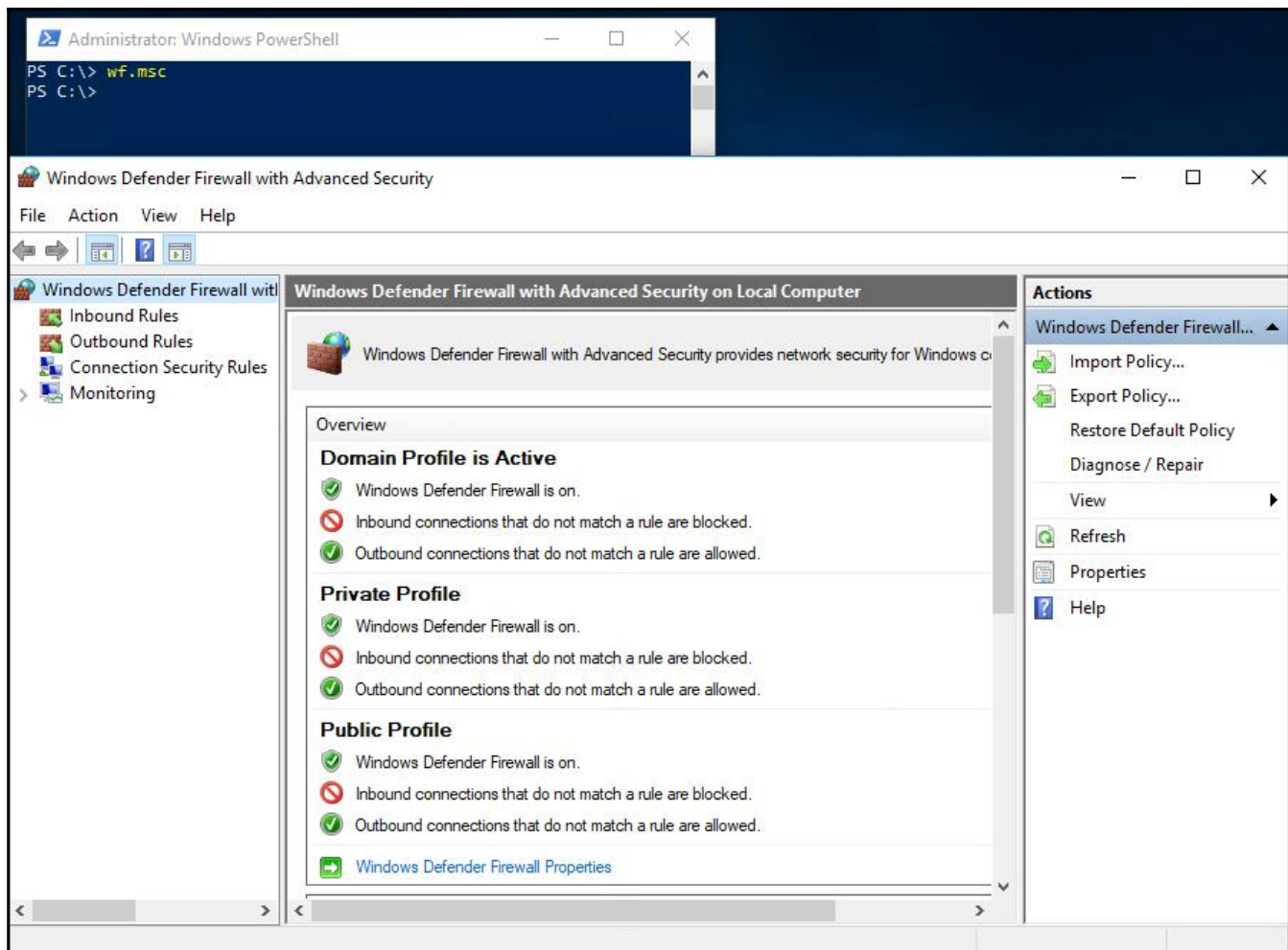
Bypass proxy server for local addresses

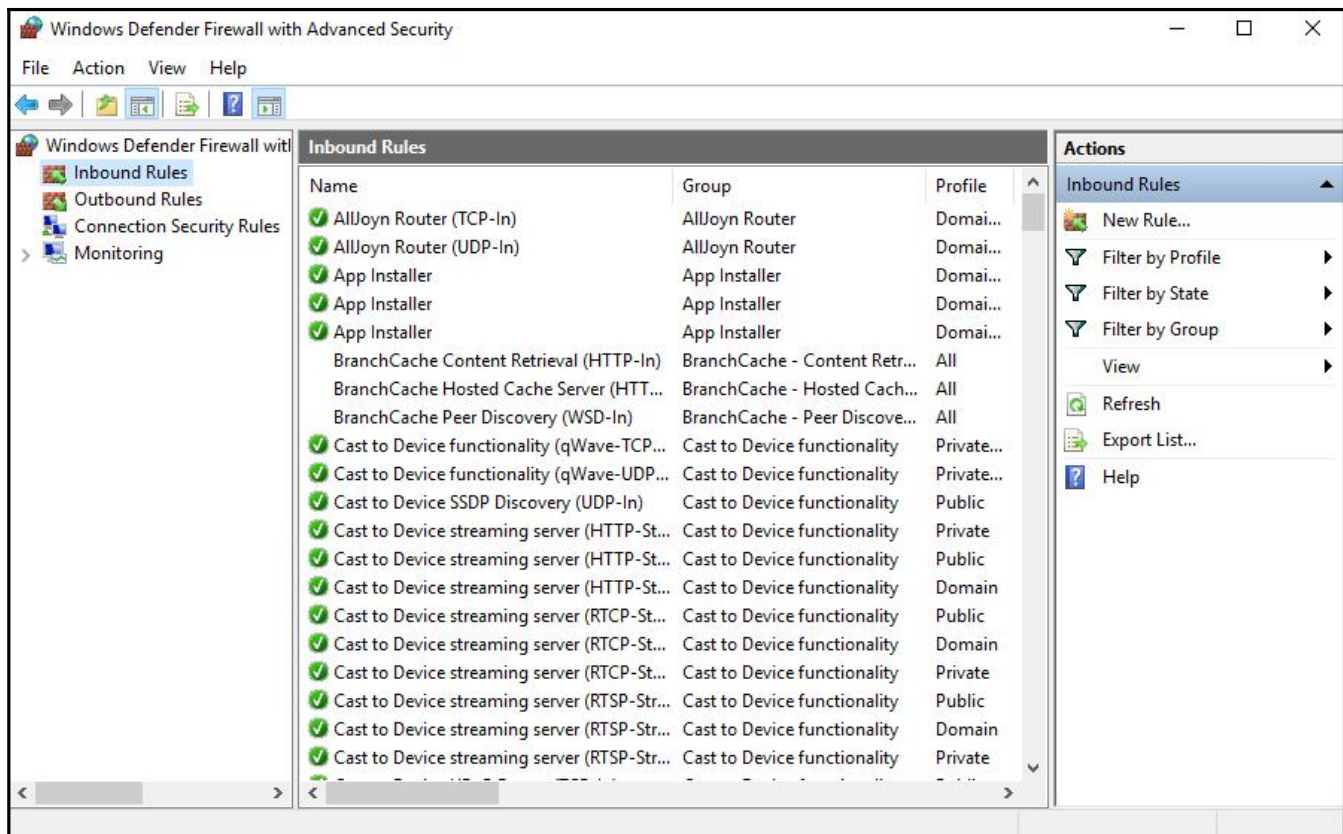


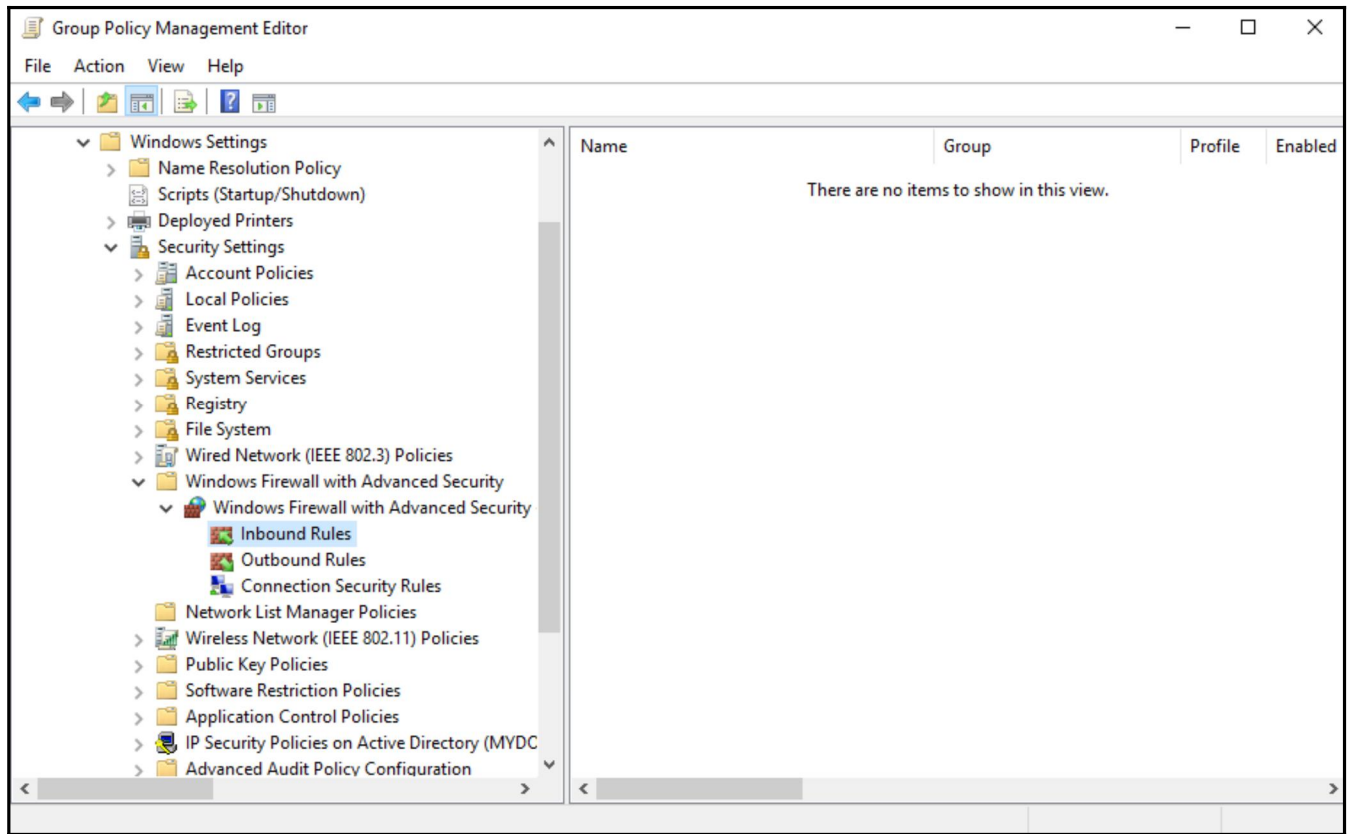
f you are
our web

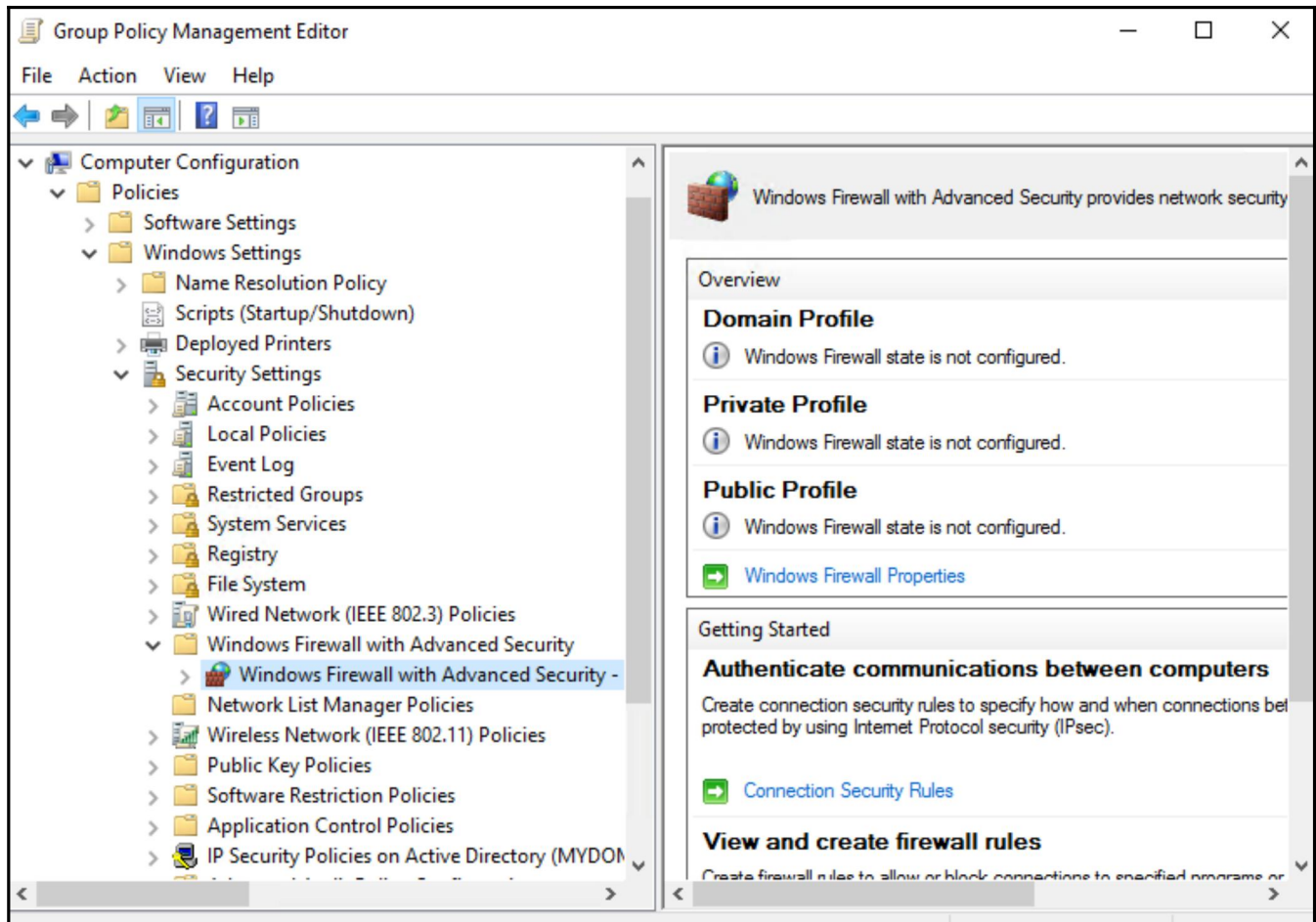
Chapter 07: Group Policy as a Security Mechanism

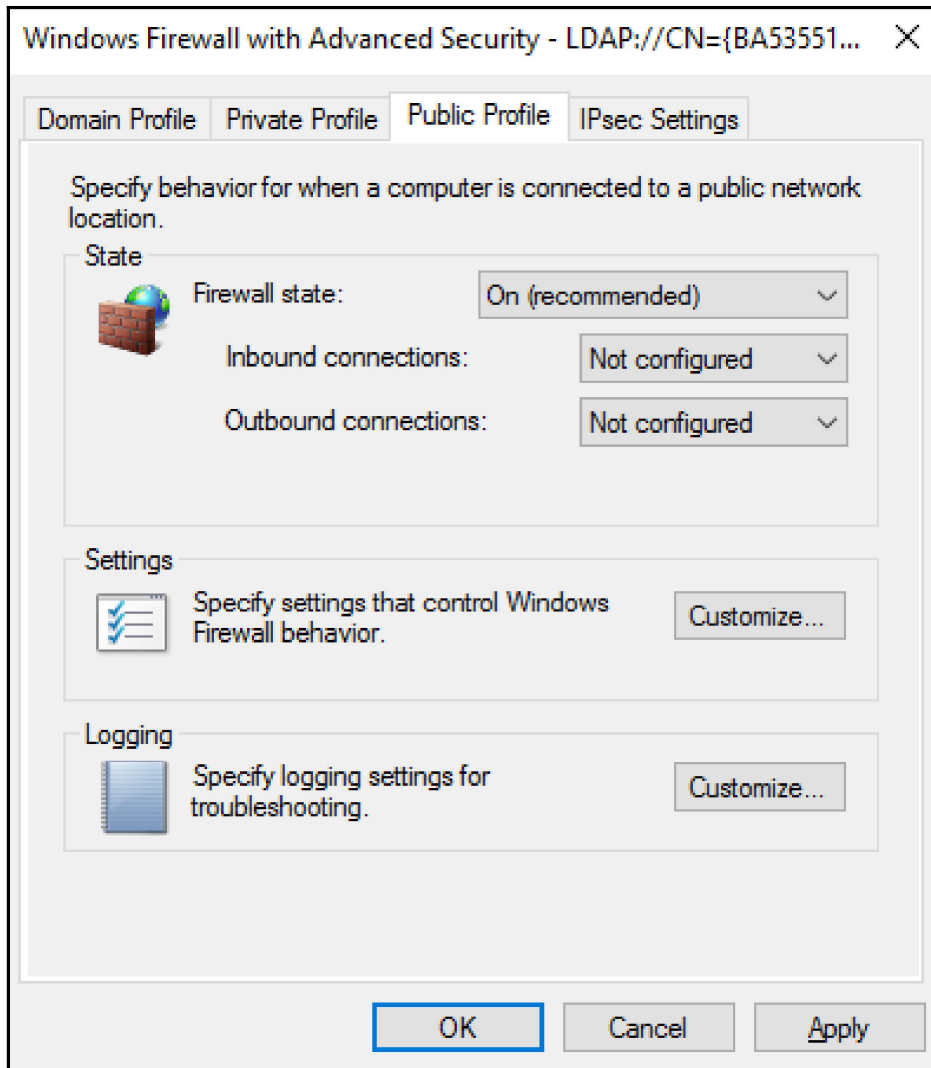


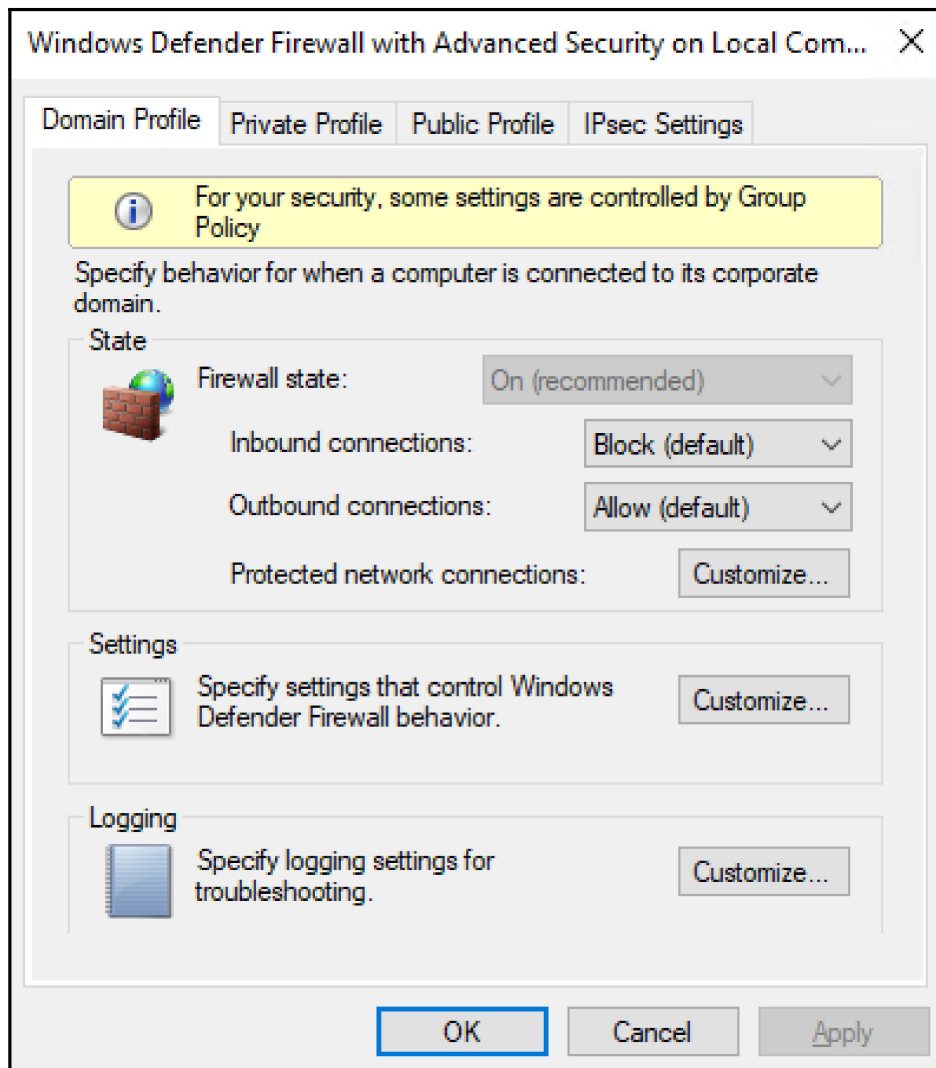


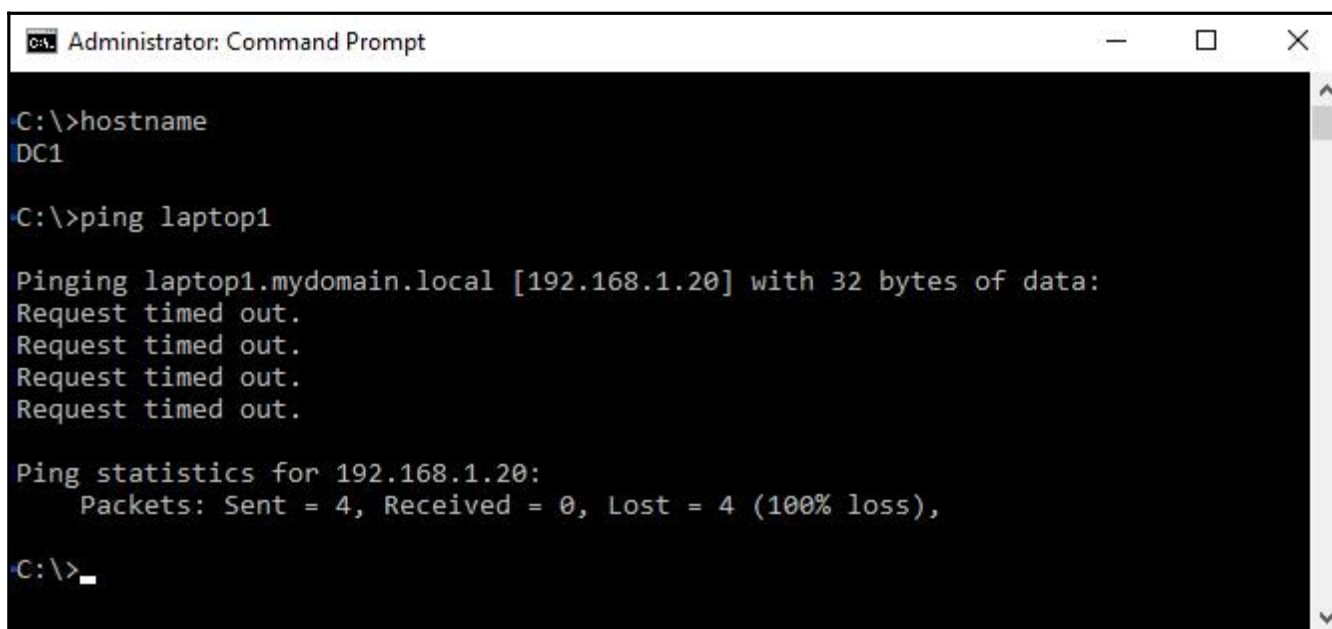
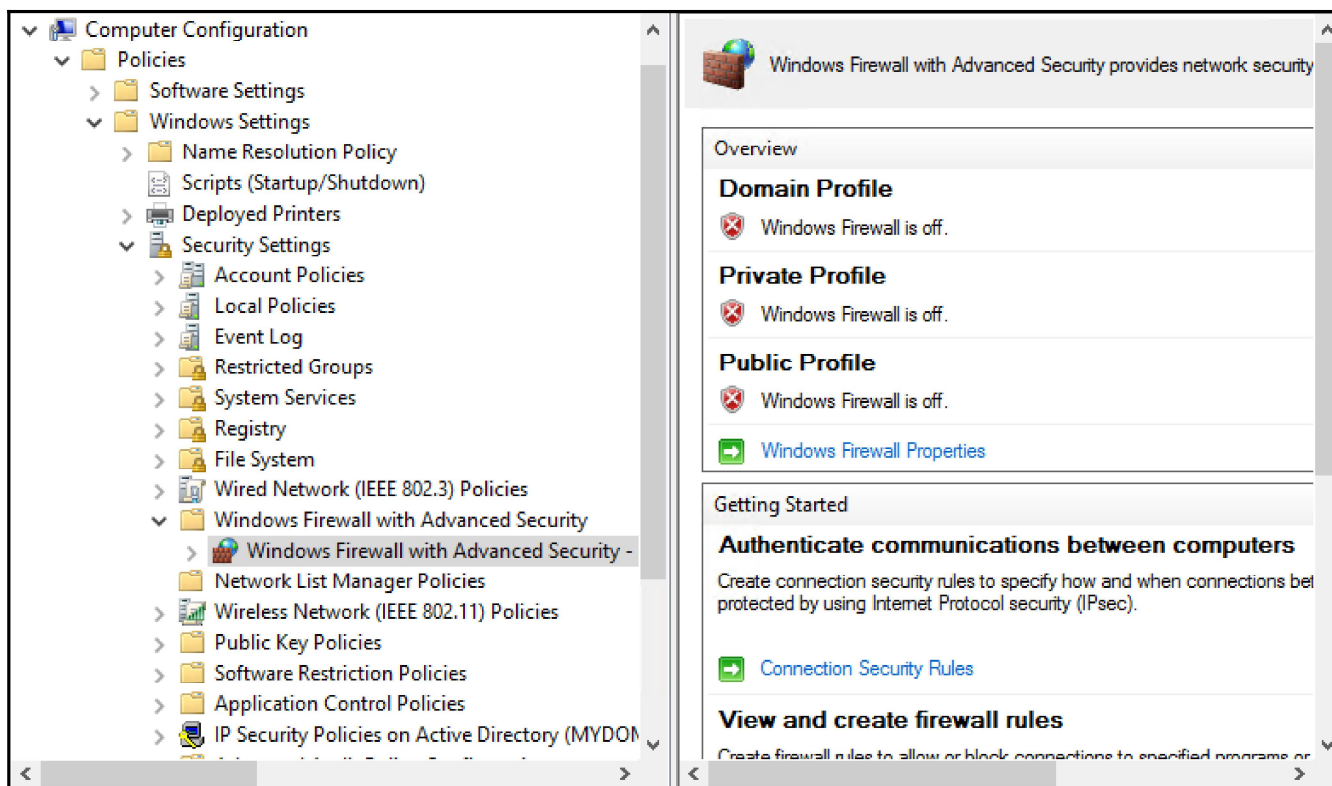


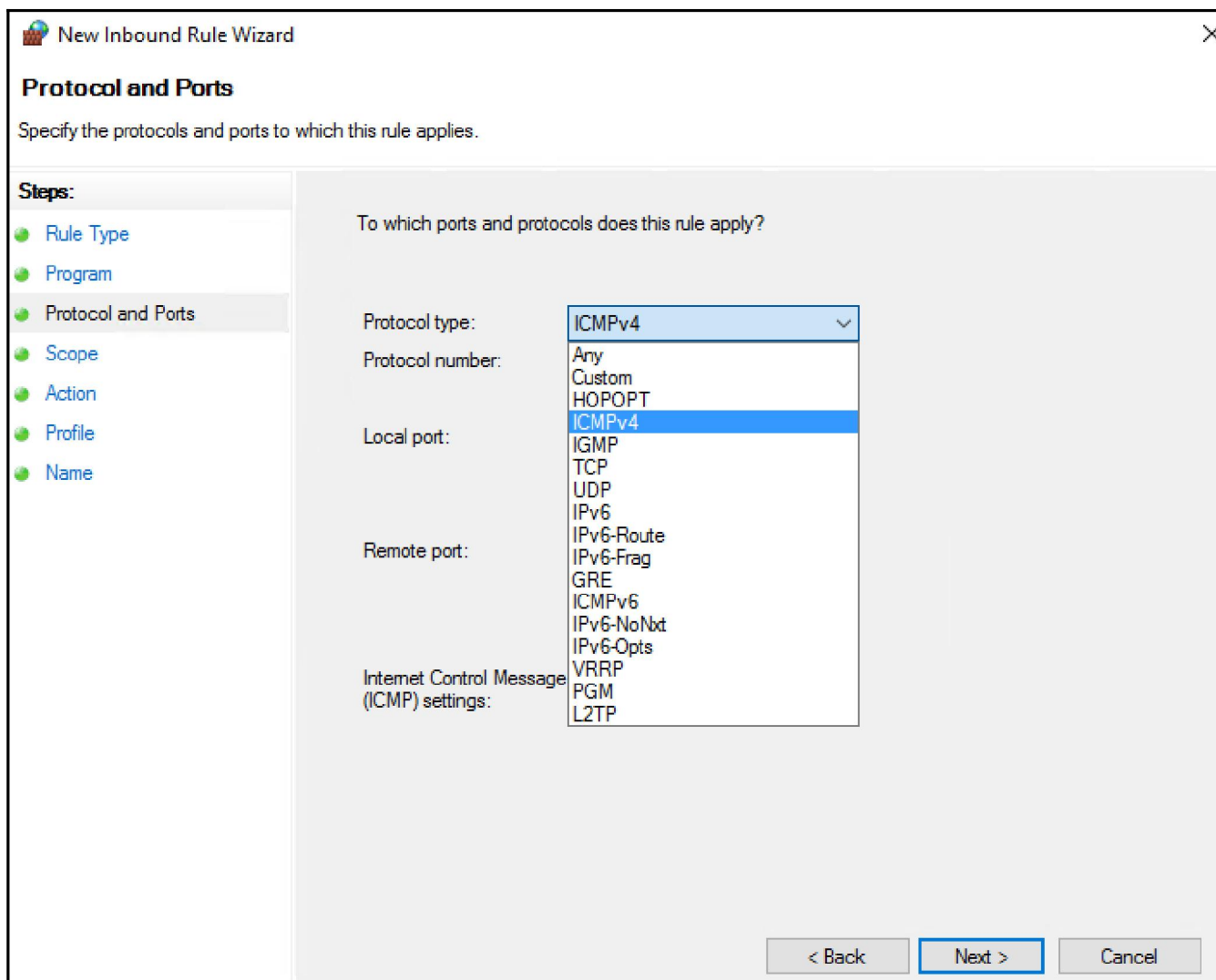


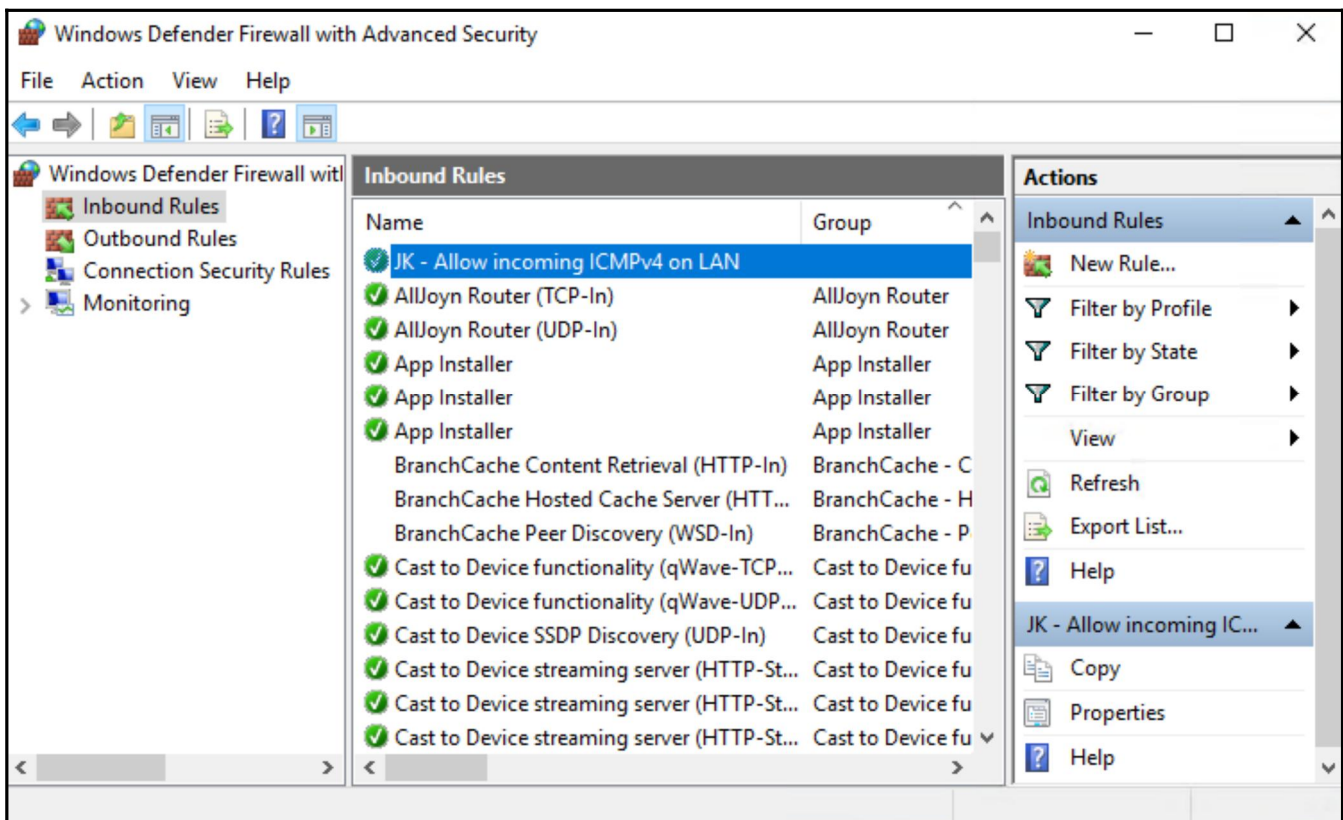
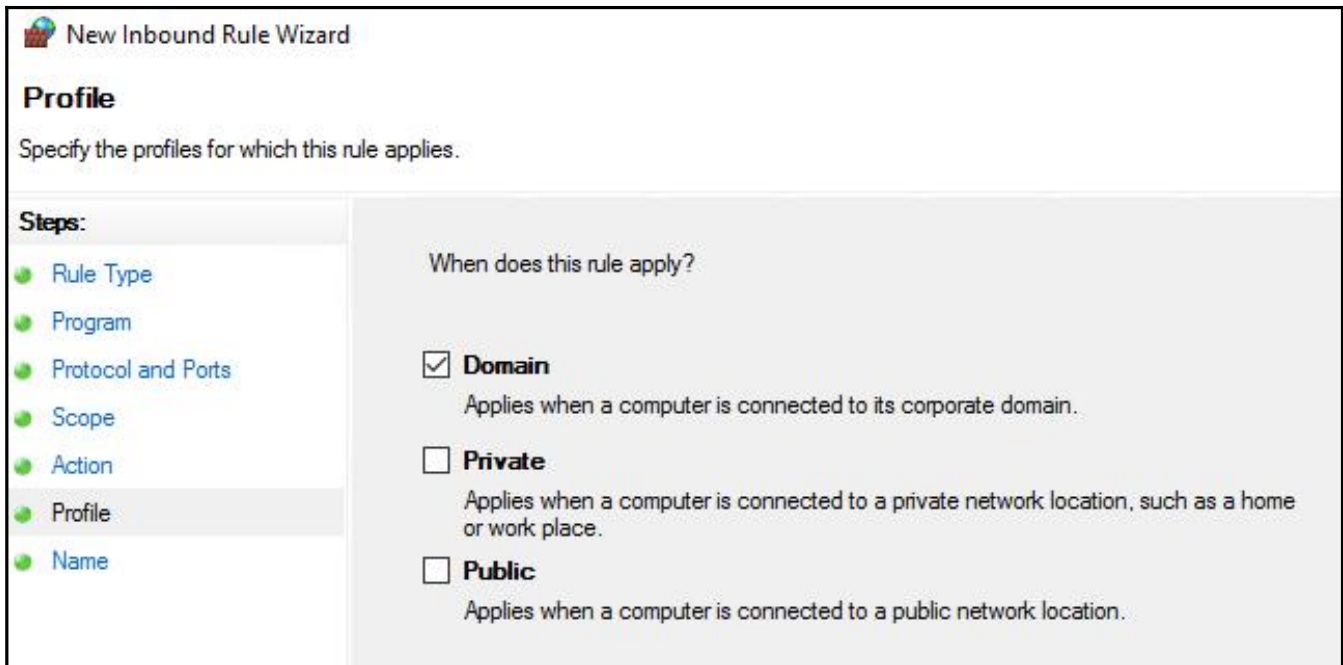












```
Administrator: Command Prompt
C:\>hostname
DC1

C:\>ping laptop1

Pinging laptop1.mydomain.local [192.168.1.20] with 32 bytes of data:
Reply from 192.168.1.20: bytes=32 time<1ms TTL=128
Reply from 192.168.1.20: bytes=32 time<1ms TTL=128
Reply from 192.168.1.20: bytes=32 time<1ms TTL=128
Reply from 192.168.1.20: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.20:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

Which local IP addresses does this rule apply to?

Any IP address

These IP addresses:

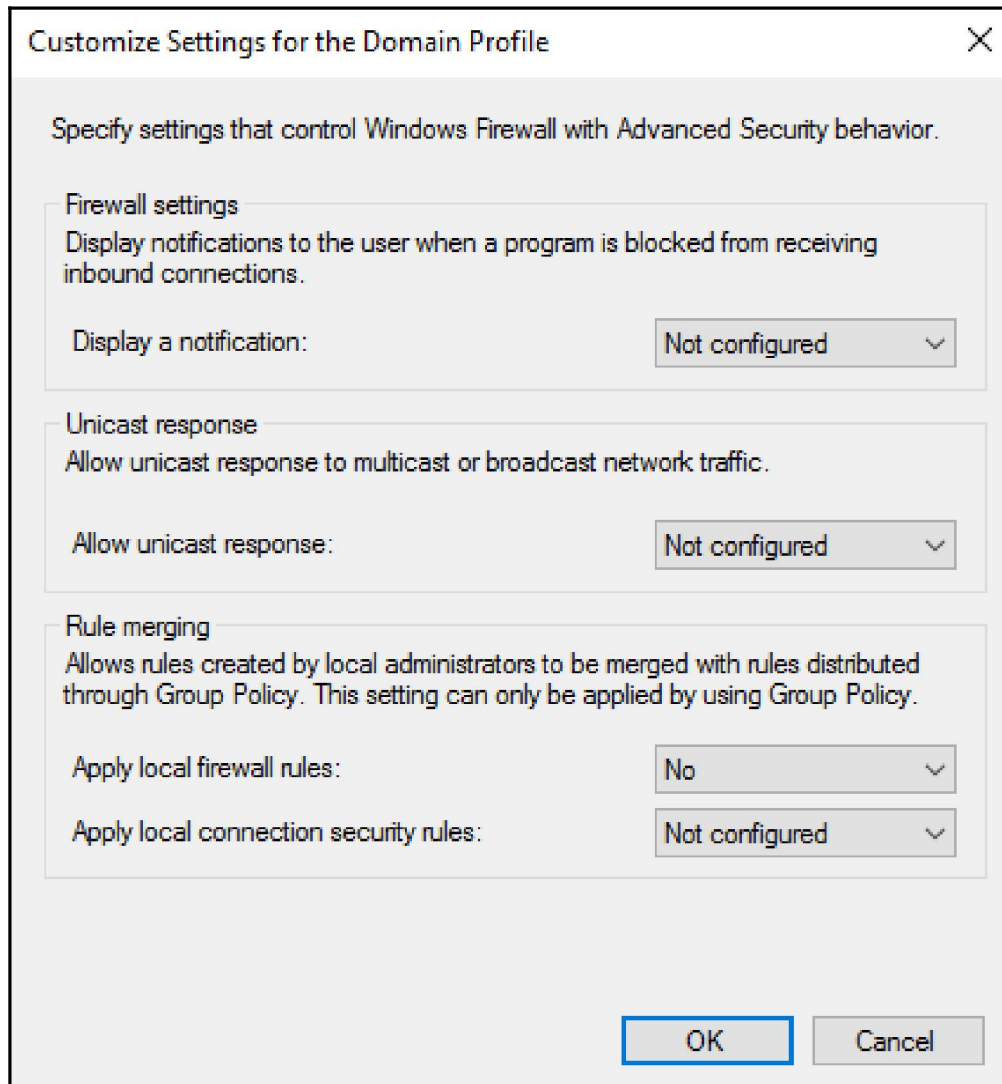
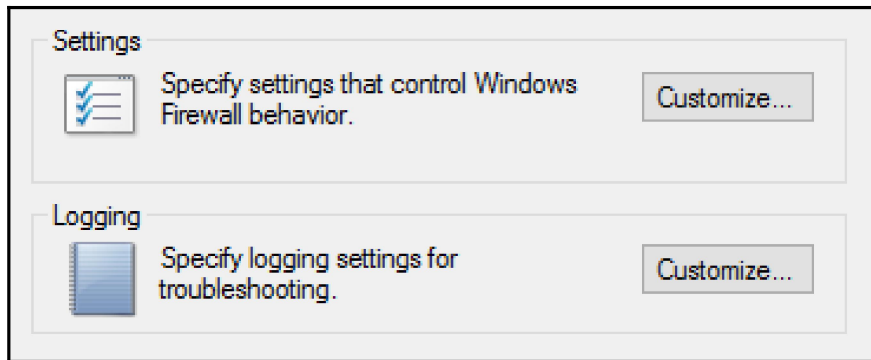
Customize the interface types to which this rule applies:

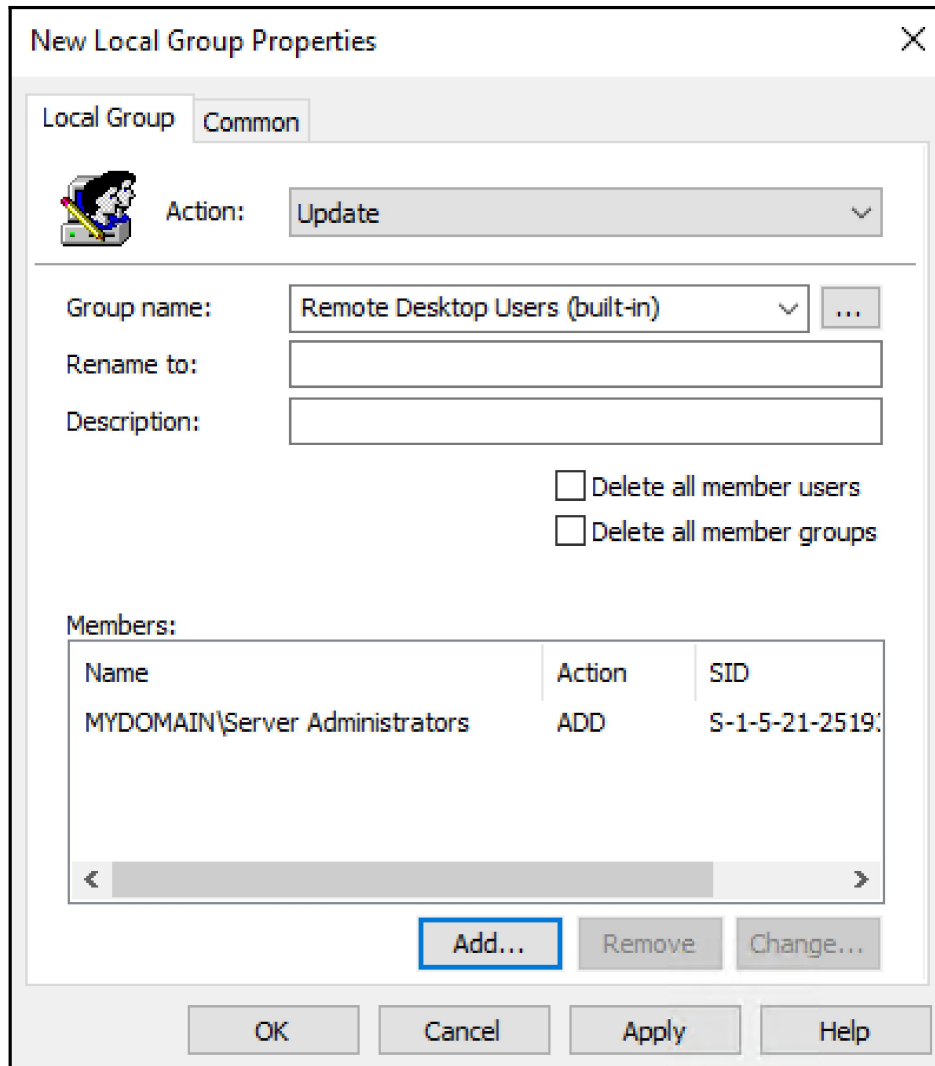
Which remote IP addresses does this rule apply to?

Any IP address

These IP addresses:

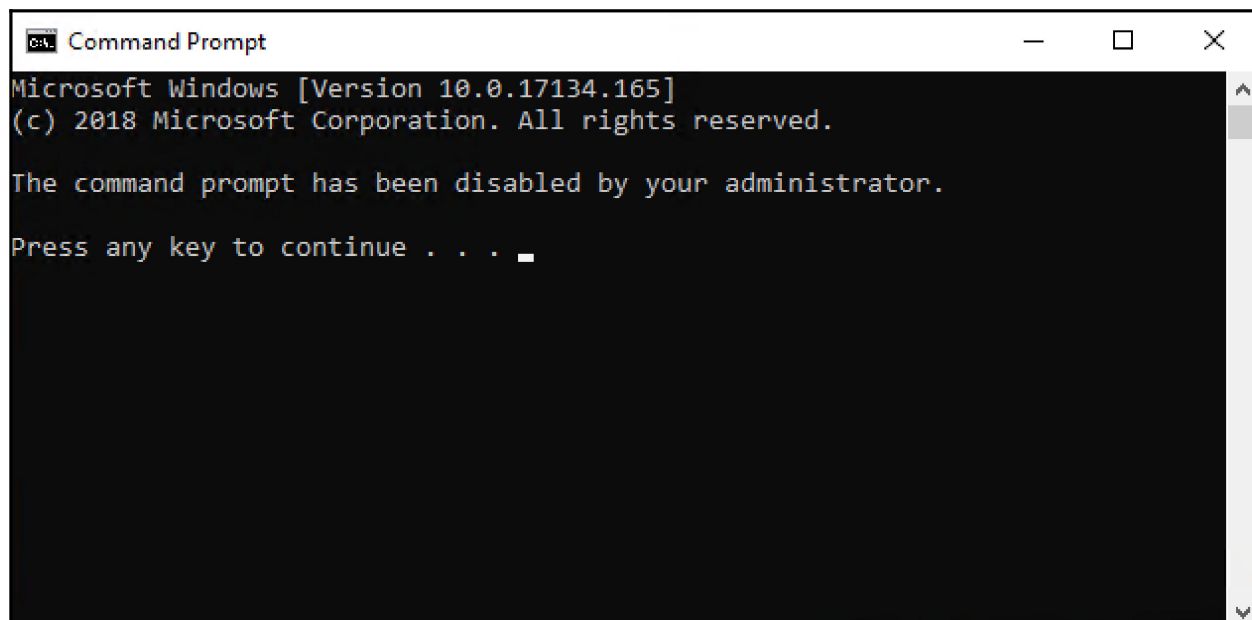
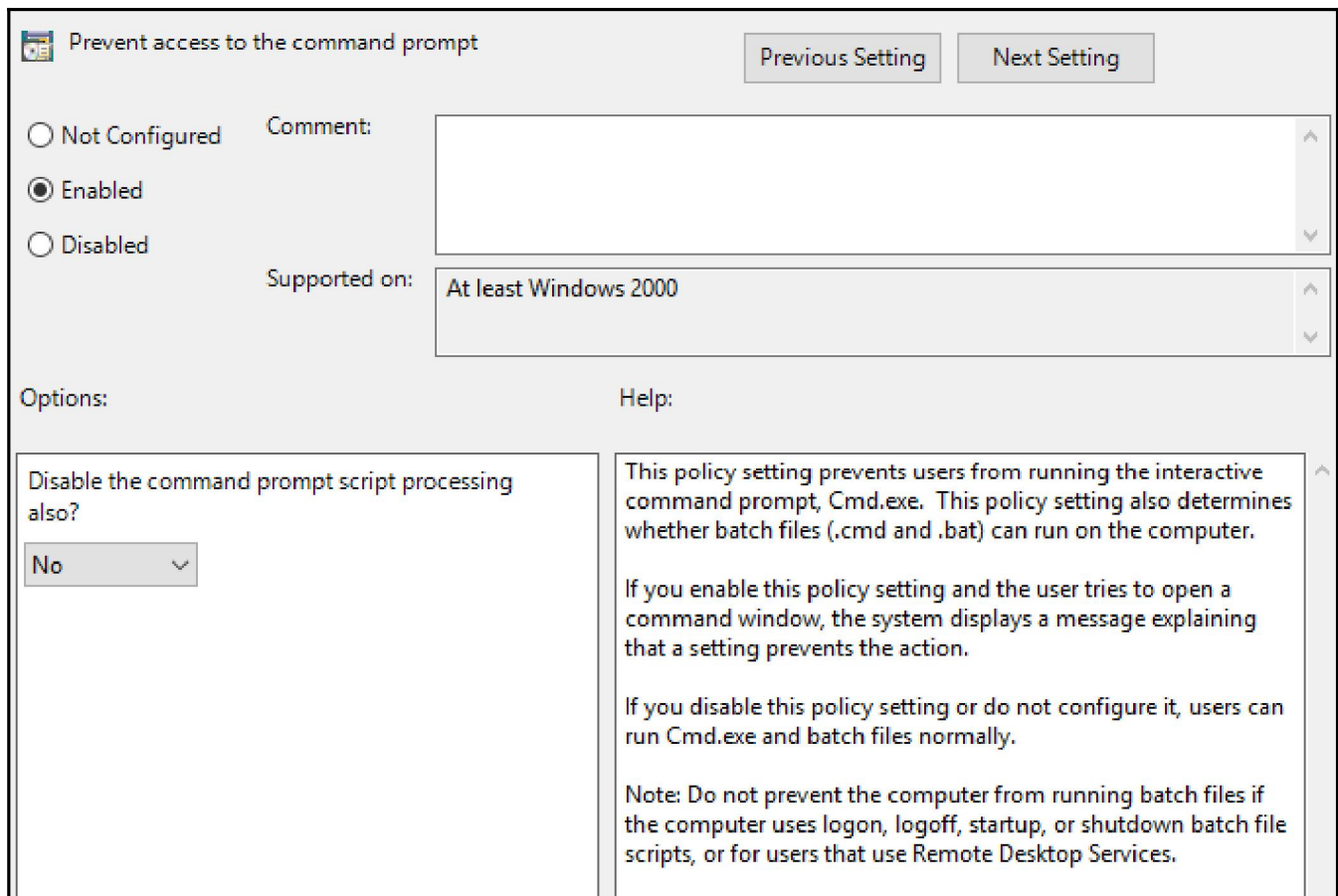
172.16.100.0/24

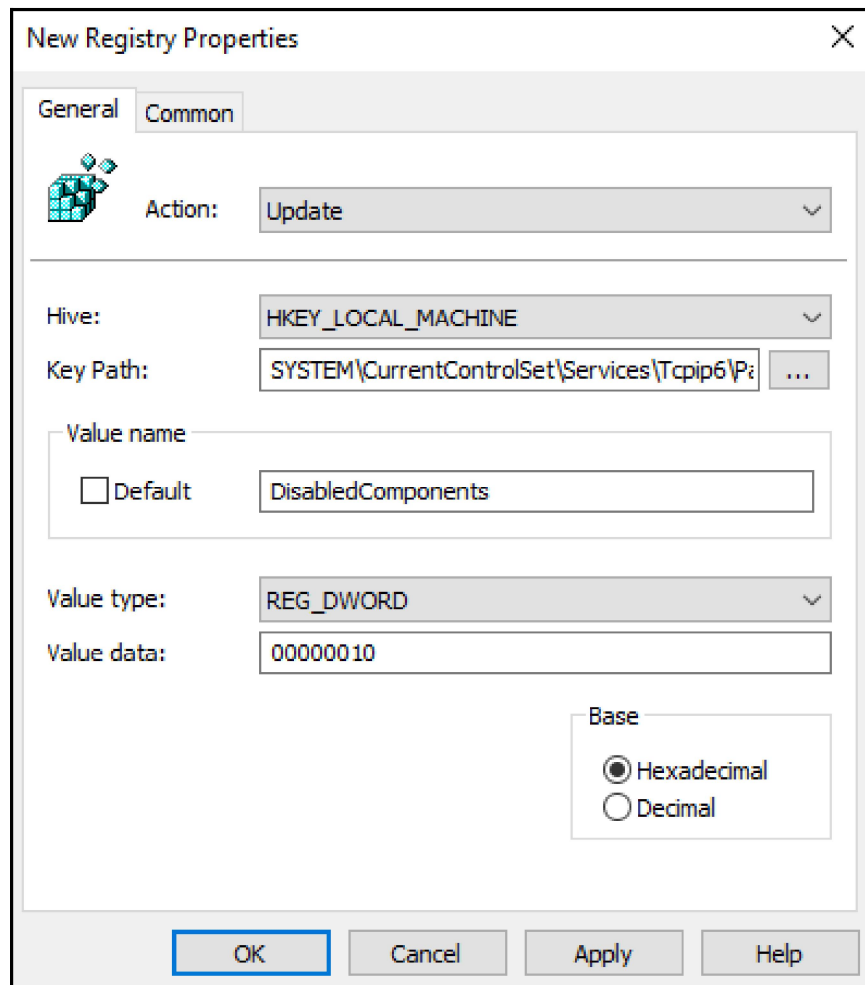


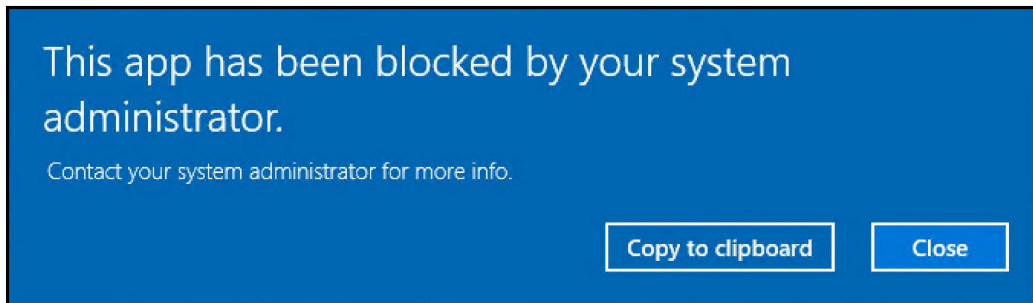
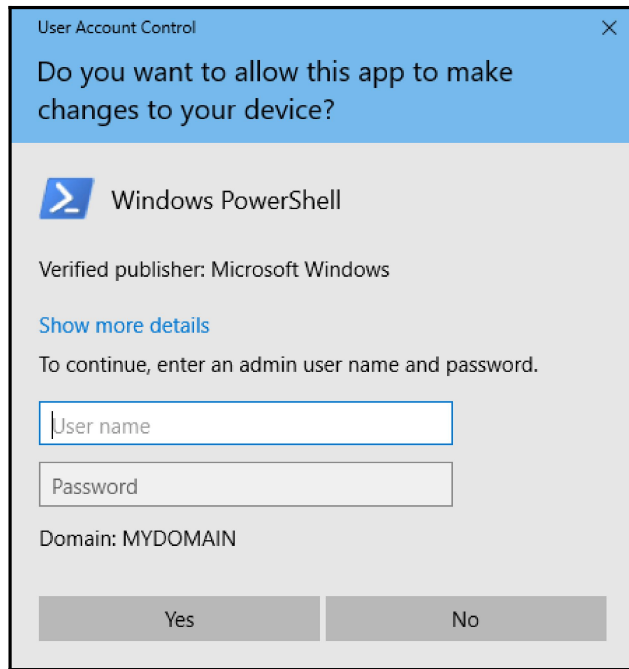


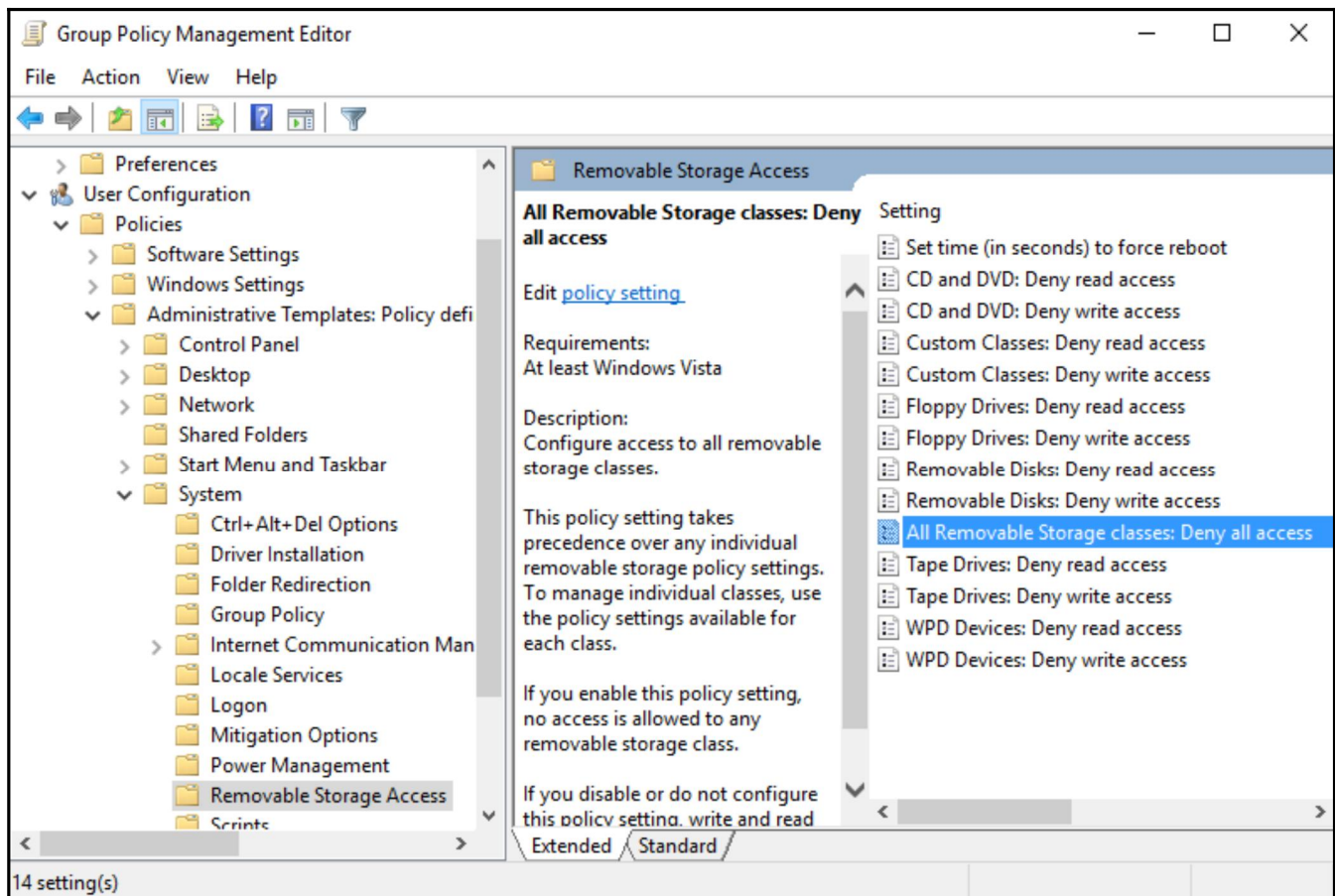
The image shows the Windows Computer Management console with the 'Remote Desktop Users' group selected. A dialog box titled 'Remote Desktop Users Properties' is open, displaying the 'General' tab. The group name is 'Remote Desktop Users'. The description field is empty. The members list contains 'MYDOMAIN\Server Administrators'. Buttons for 'Add...', 'Remove', 'OK', 'Cancel', 'Apply', and 'Help' are visible at the bottom of the dialog. A note at the bottom right of the dialog states: 'Changes to a user's group membership are not effective until the next time the user logs on.'

Name	Description
Access Control Assist...	Members of this group can remot...
Administrators	Administrators have complete an...
Backup Operators	
Cryptographic Operat...	
Device Owners	
Distributed COM Users	
Event Log Readers	
Guests	
Hyper-V Administrators	
IIS_IUSRS	
Network Configuratio...	
Performance Log Users	
Performance Monitor ...	
Power Users	
Remote Desktop Users	
Remote Management...	
Replicator	
System Managed Acc...	
Users	

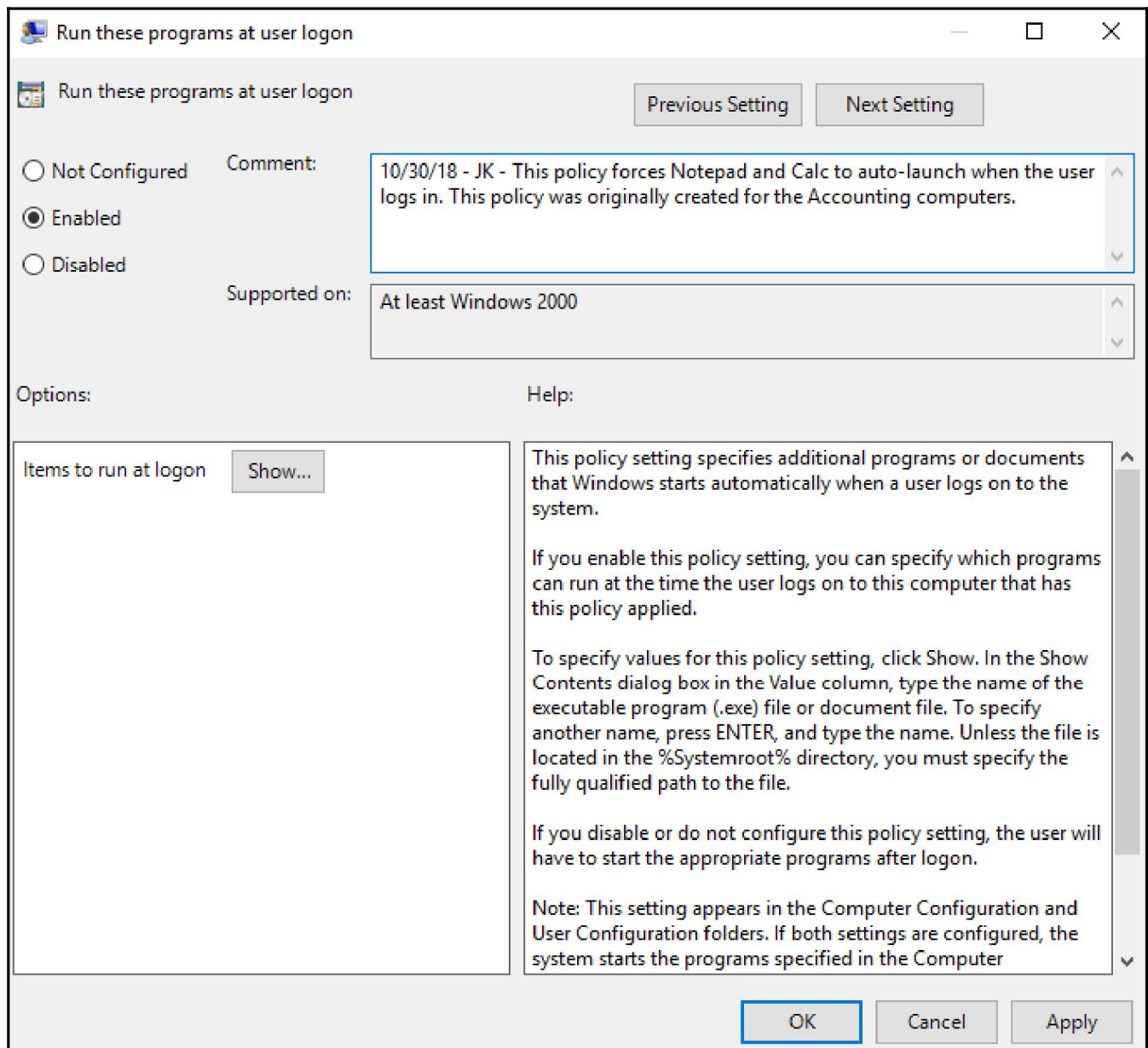


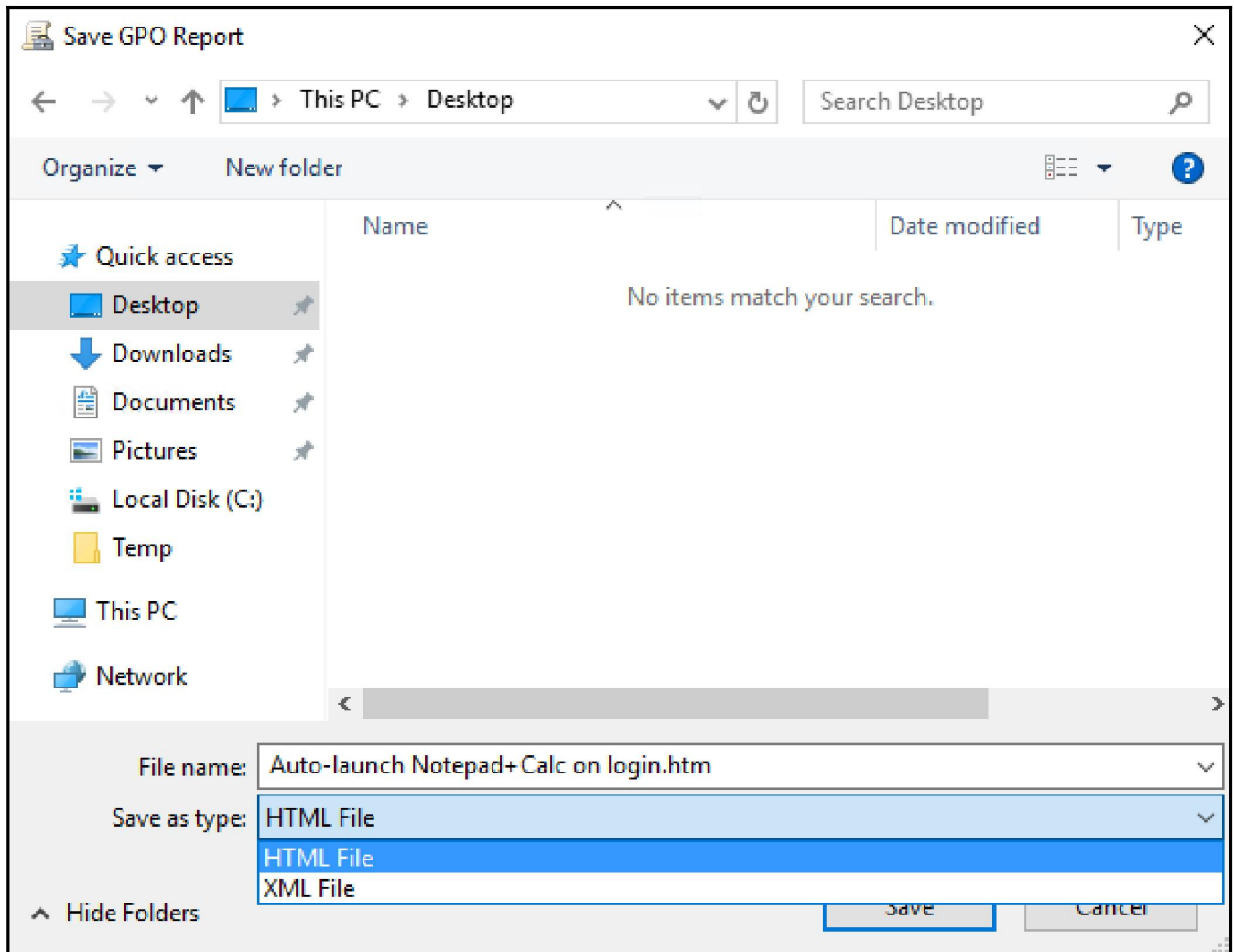
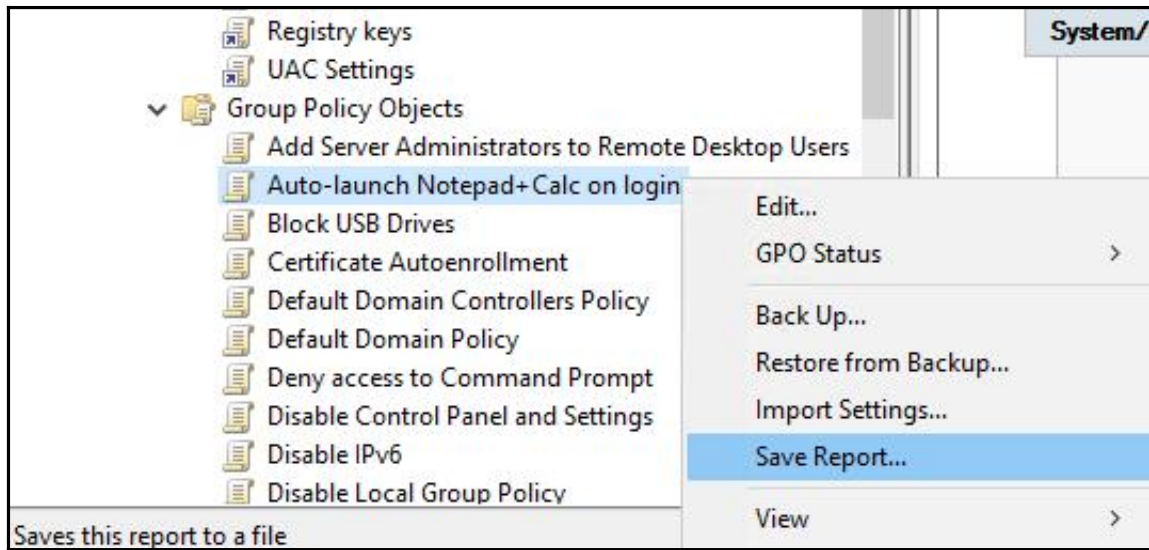






Chapter 08: Group Policy Maintenance





C:\Users\Administrator\Desktop\Auto-launc Auto-launch Notepad+Cal...

NT AUTHORITY\Authenticated Users

Delegation

These groups and users have the specified permission for this GPO

Name	Allowed Permissions	Inherited
MYDOMAIN\Domain Admins	Edit settings, delete, modify security	No
MYDOMAIN\Enterprise Admins	Edit settings, delete, modify security	No
NT AUTHORITY\Authenticated Users	Read (from Security Filtering)	No
NT AUTHORITY\ENTERPRISE DOMAIN CONTROLLERS	Read	No
NT AUTHORITY\SYSTEM	Edit settings, delete, modify security	No

Computer Configuration (Enabled)

Policies

Administrative Templates

Policy definitions (ADMX files) retrieved from the local computer.

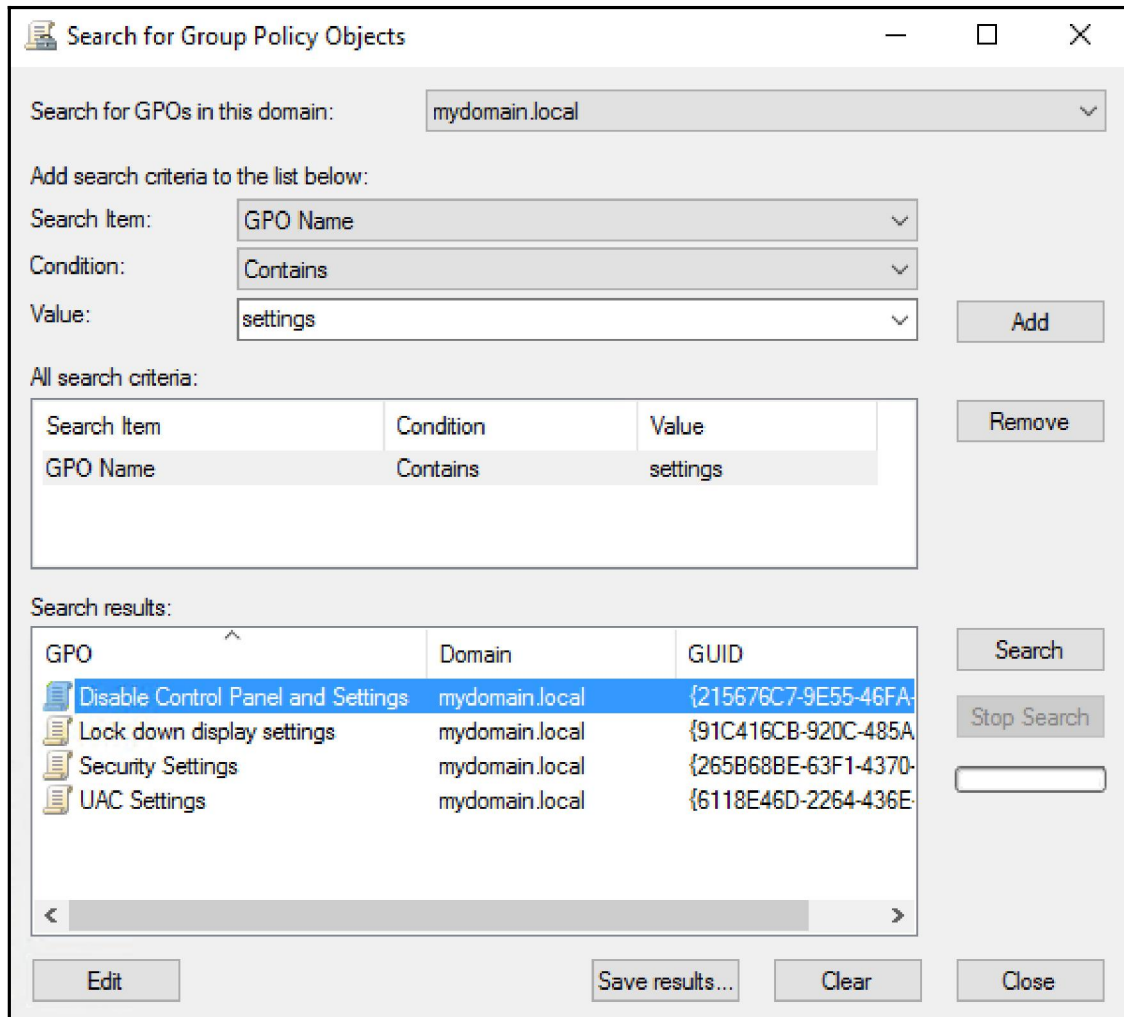
System/Logon

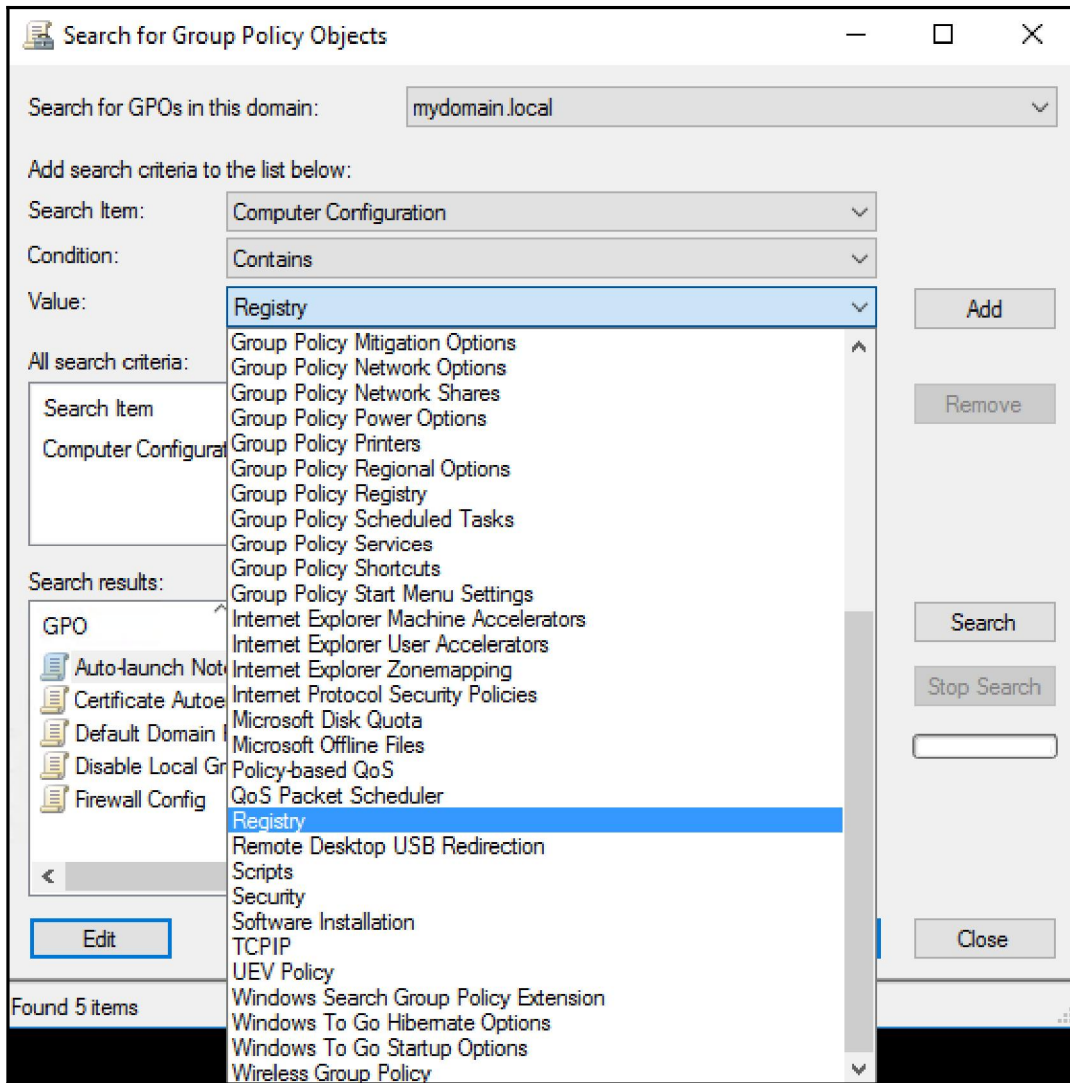
Policy	Setting	Comment
Run these programs at user logon	Enabled	

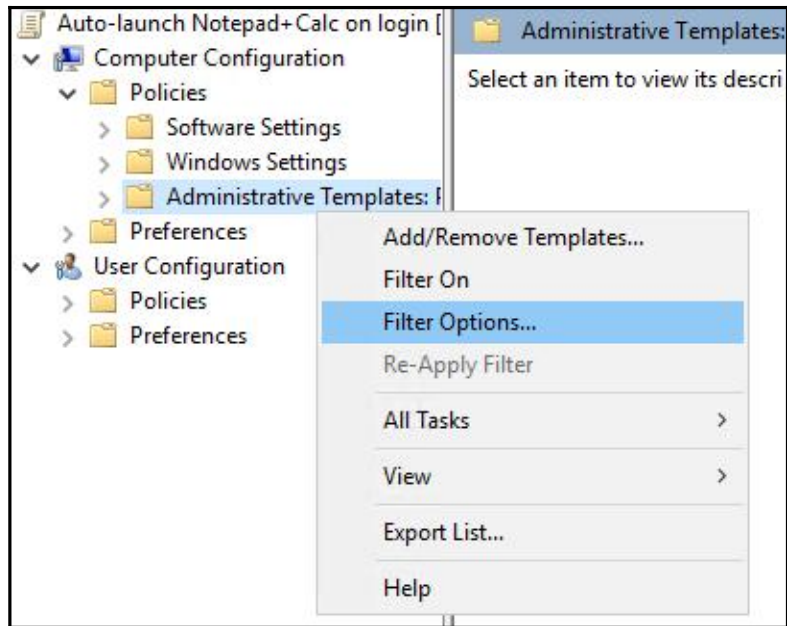
Items to run at logon

c:\windows\system32\notepad.exe

c:\windows\system32\calc.exe







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 to display.

Managed:

Any ▾

Configured:

Any ▾

Commented:

Any ▾

Enable Keyword Filters

Filter for word(s): All ▾

Within: Policy Setting Title Help Text Comment

Enable Requirements Filters

Select the desired platform and application filter(s):

Include settings that match any of the selected platforms. ▾

- BITS 1.5
- BITS 2.0
- BITS 3.5
- BITS 4.0
- Internet Explorer 10
- Internet Explorer 11
- Internet Explorer 3
- Internet Explorer 4

Select All

Clear All

OK

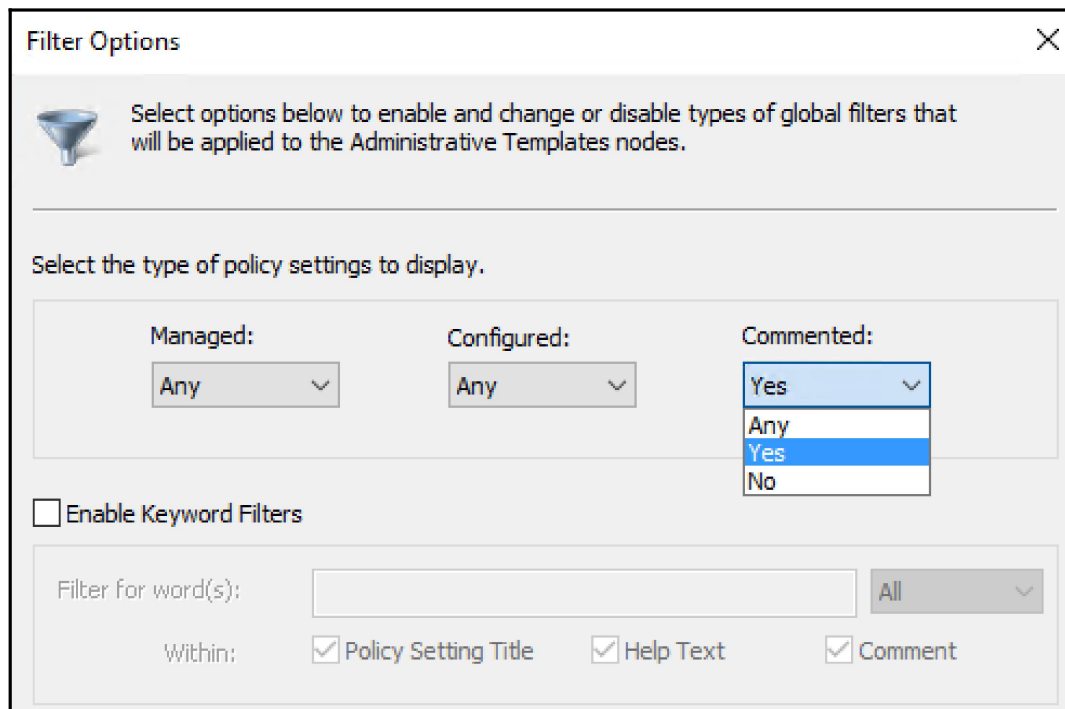
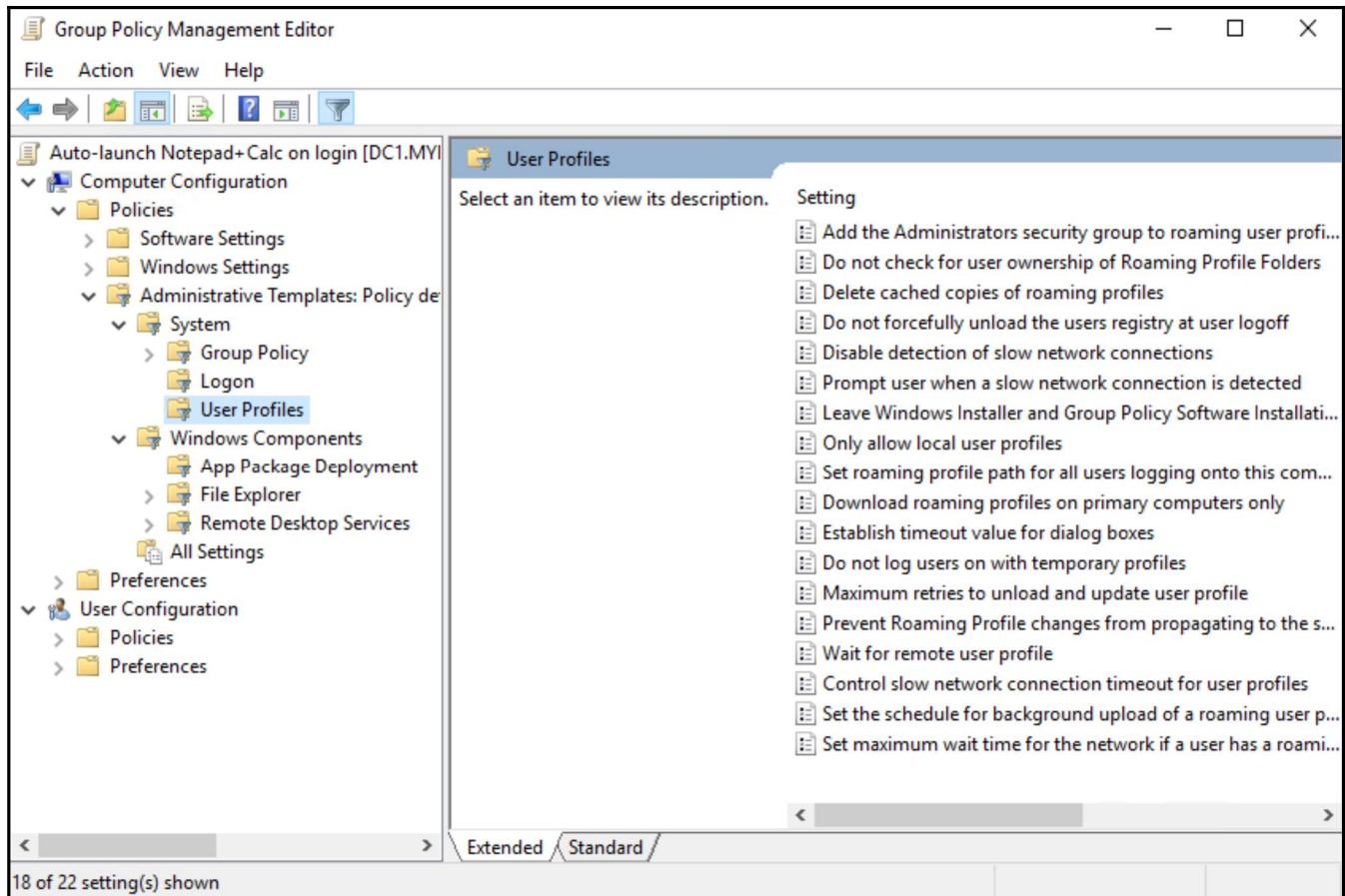
Cancel

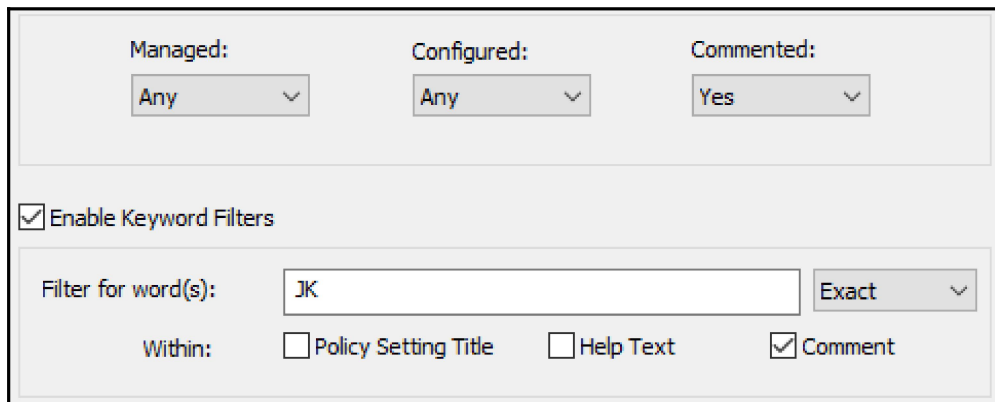
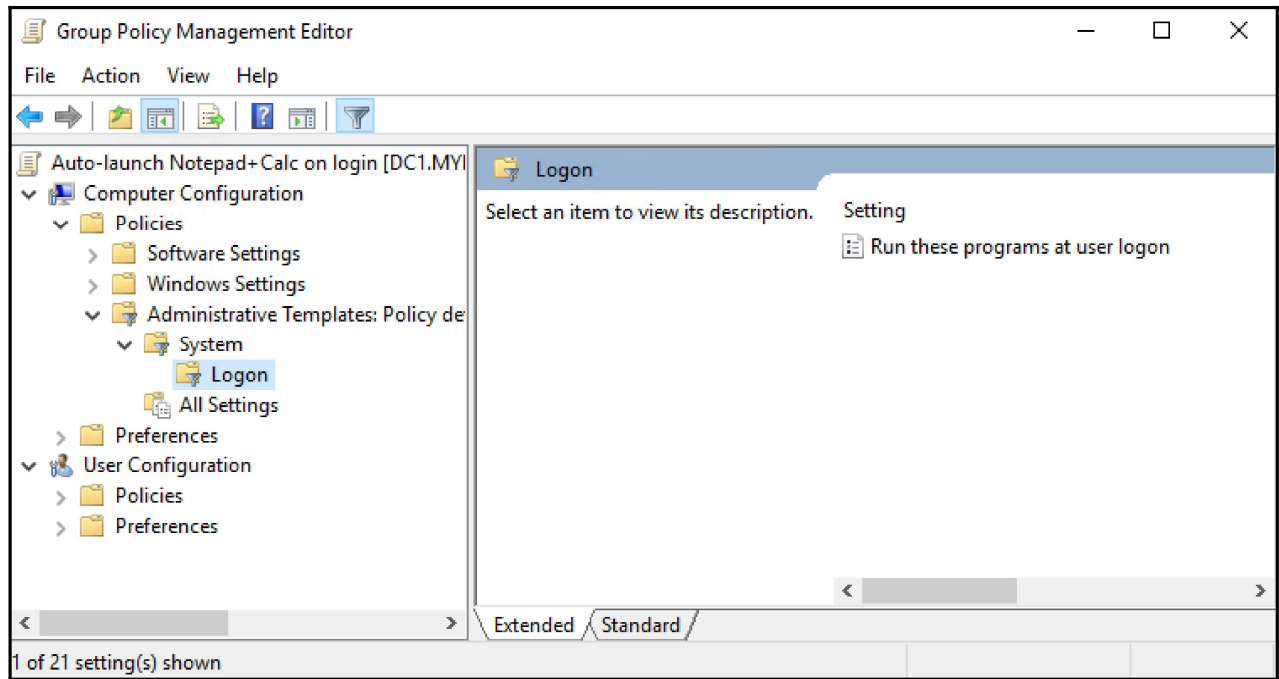
Managed:
Configured:
Commented:

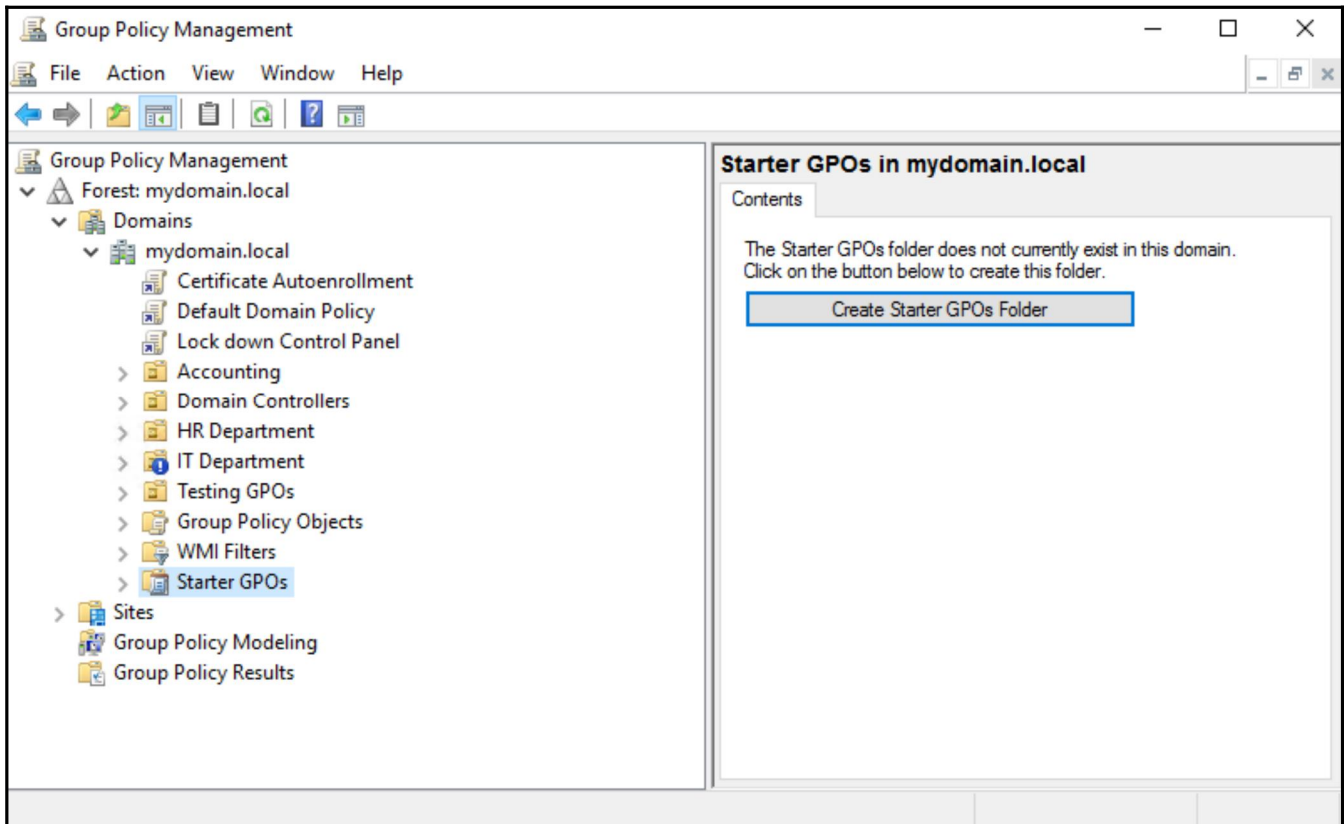
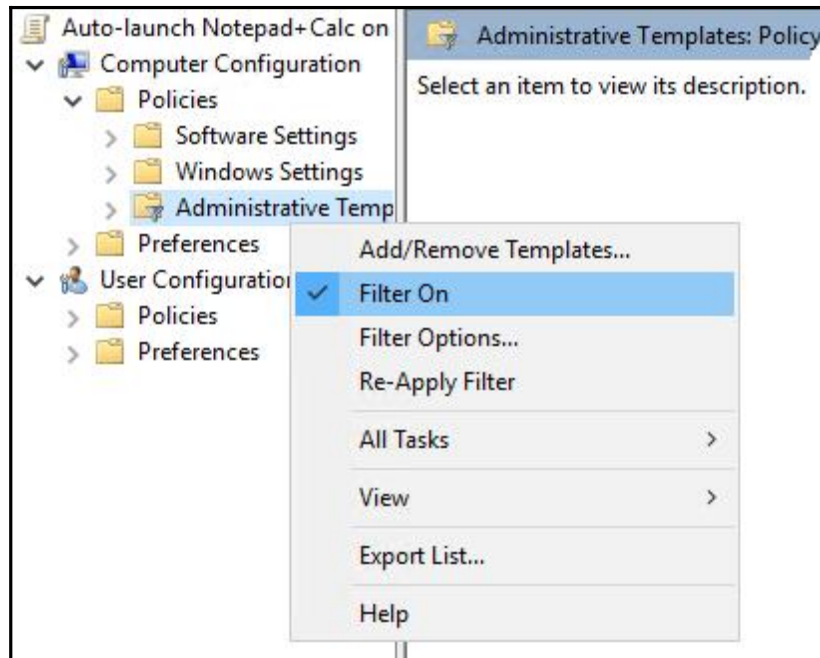
Any ▾

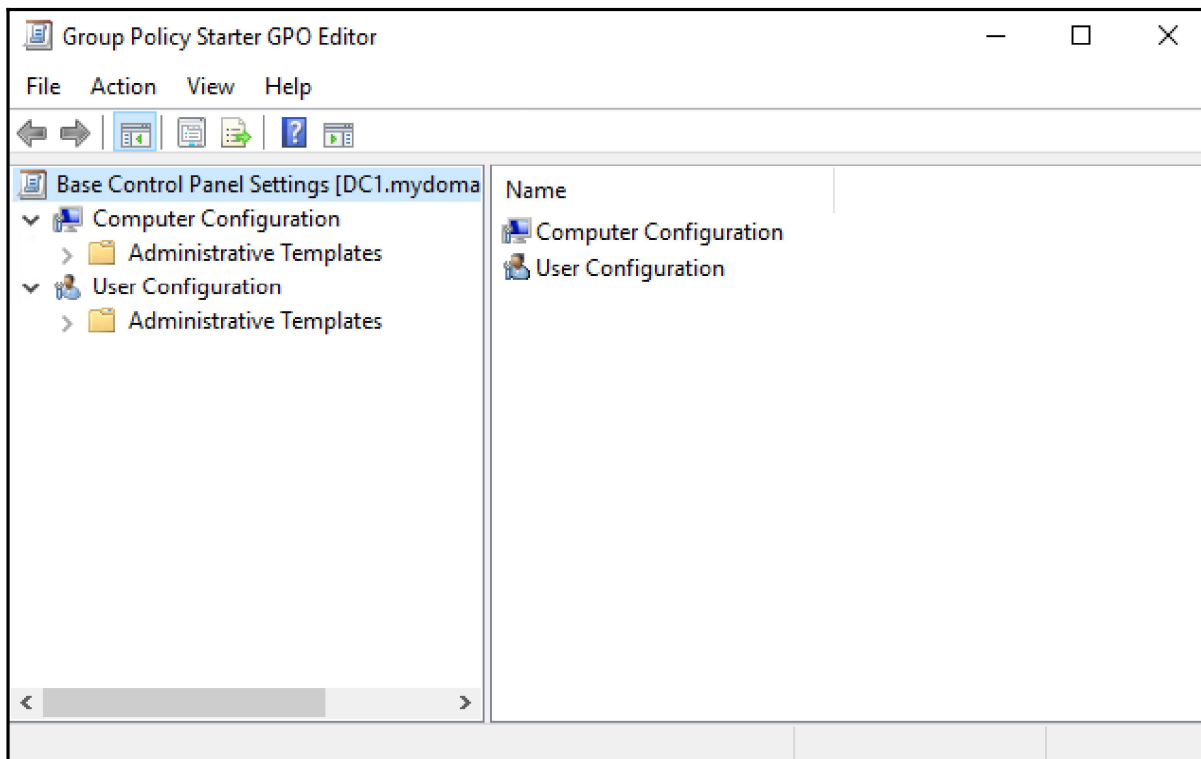
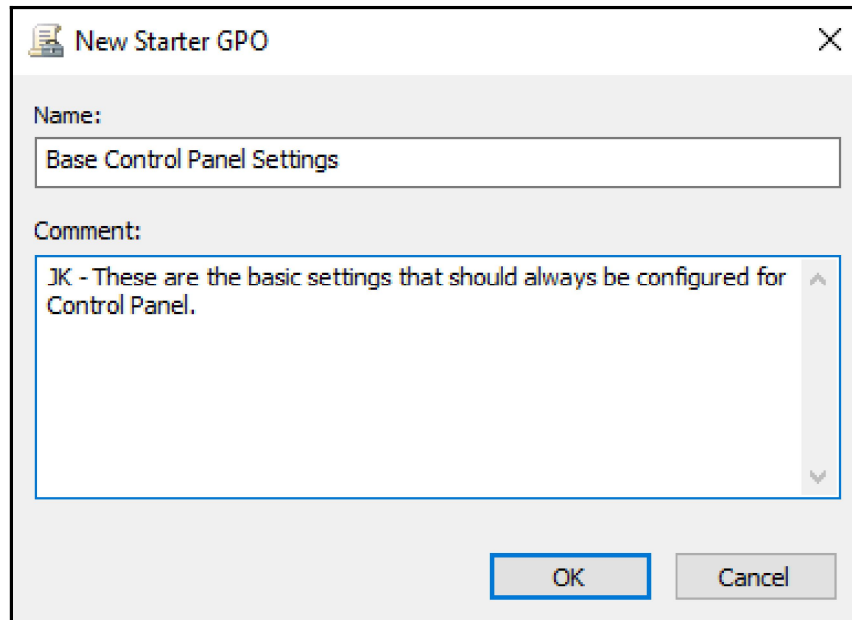
Any ▾

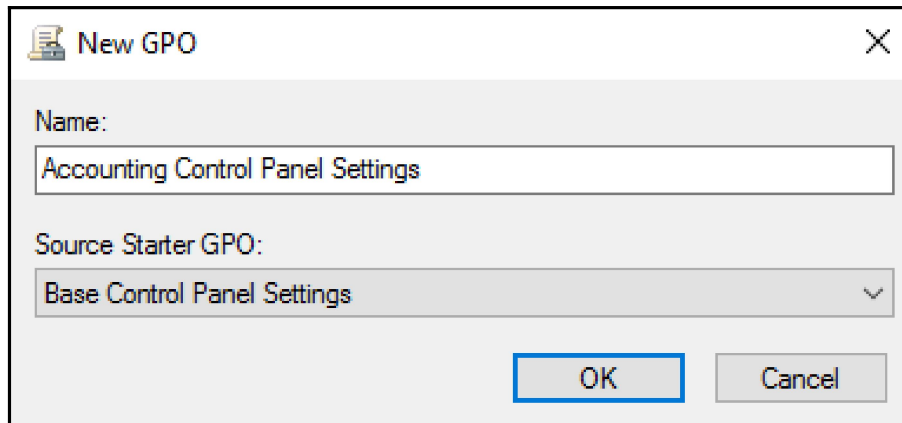
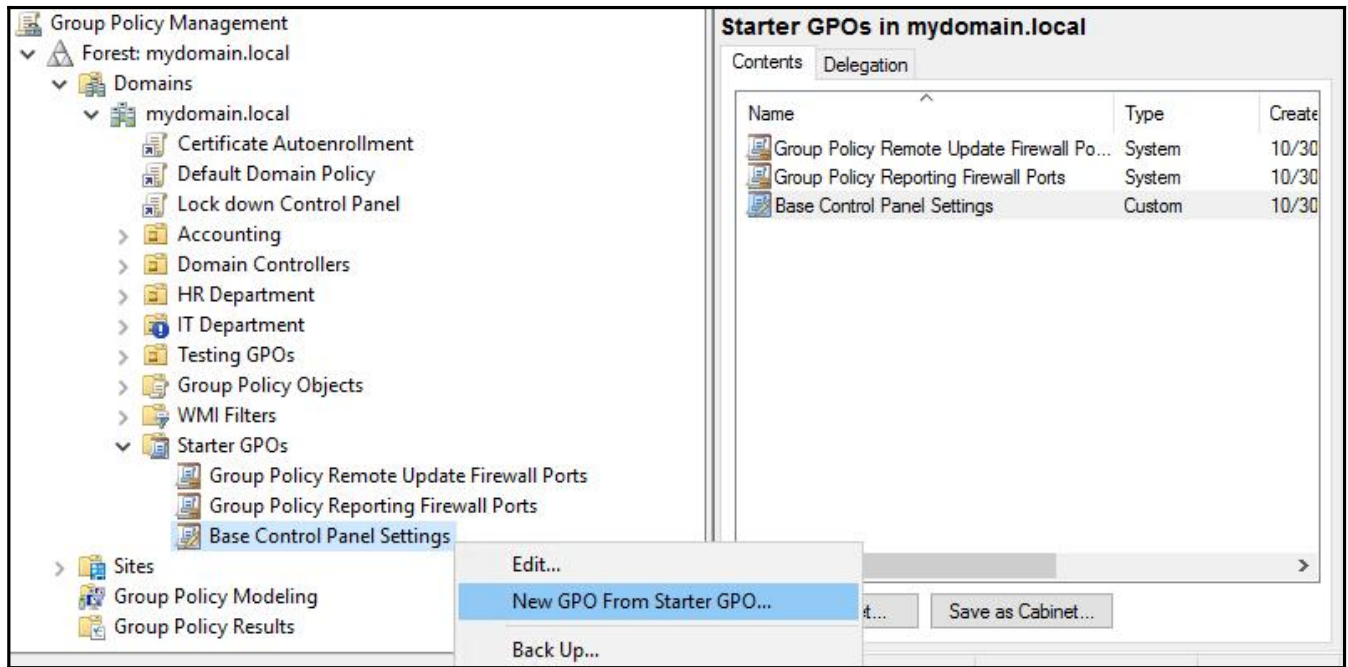
Any ▾

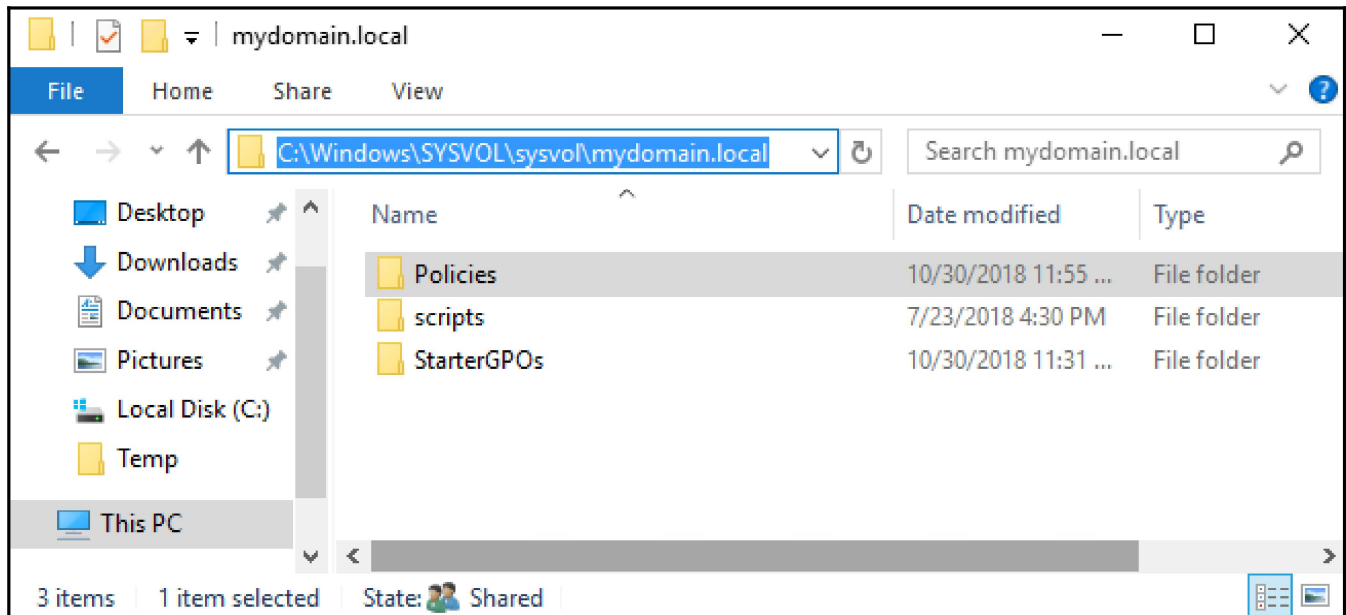
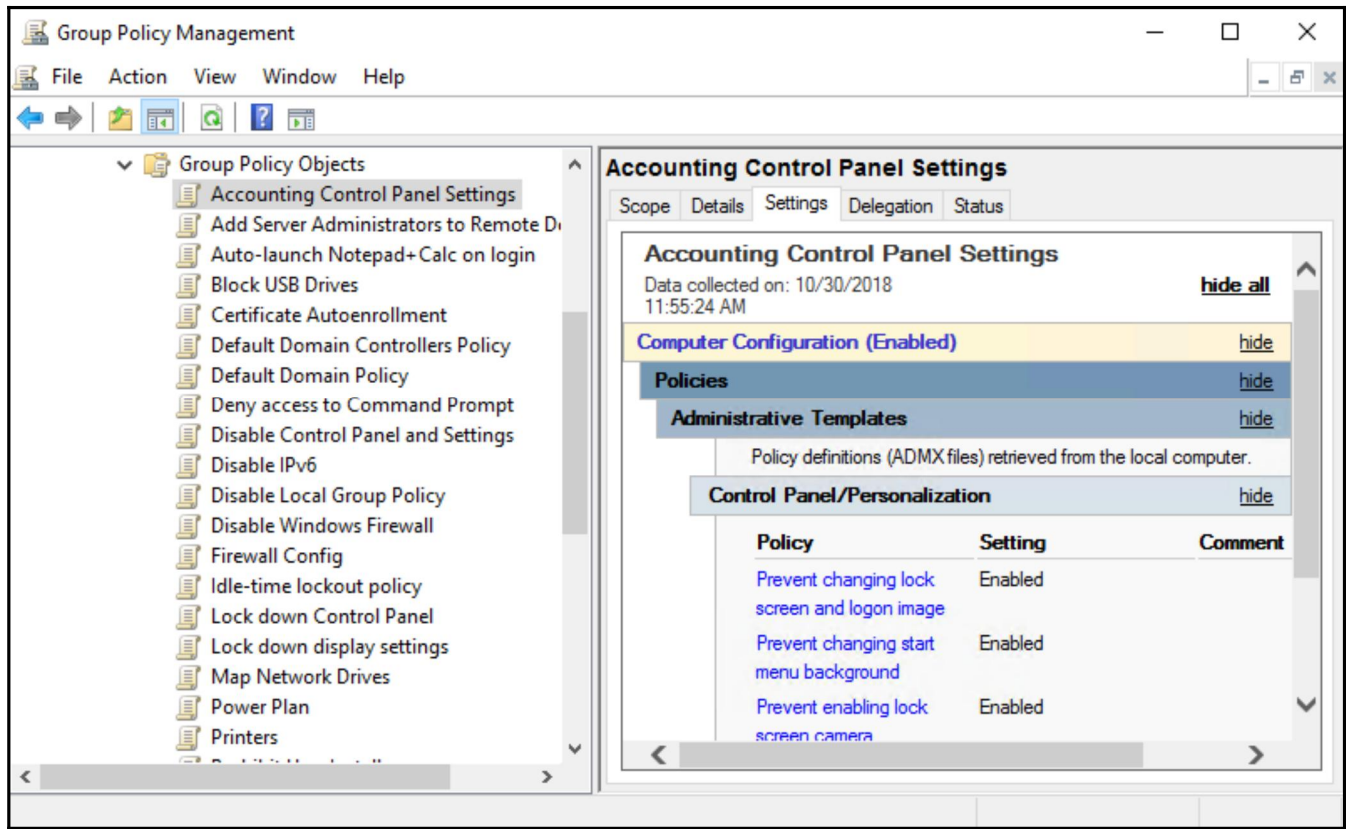


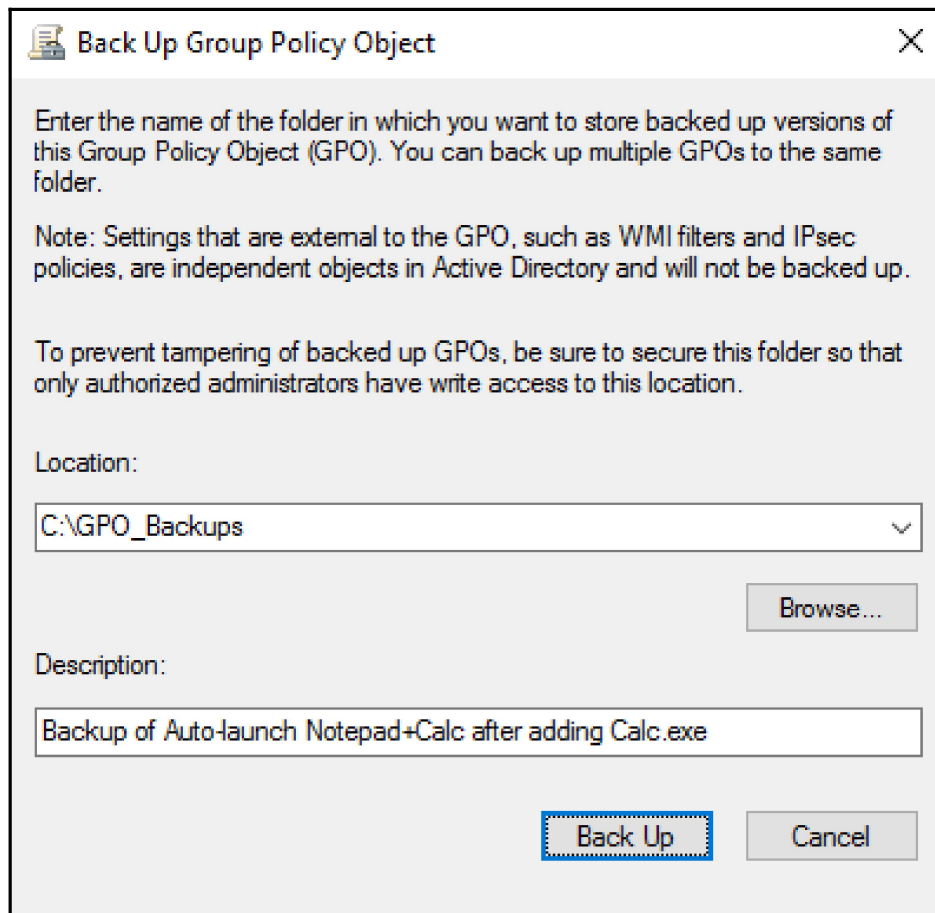
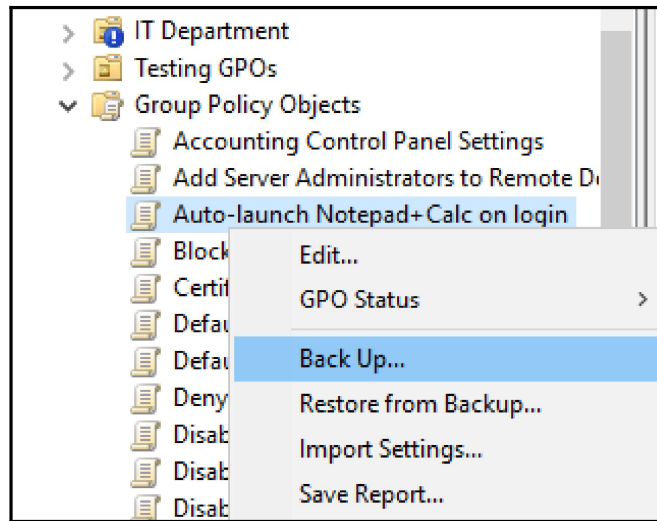


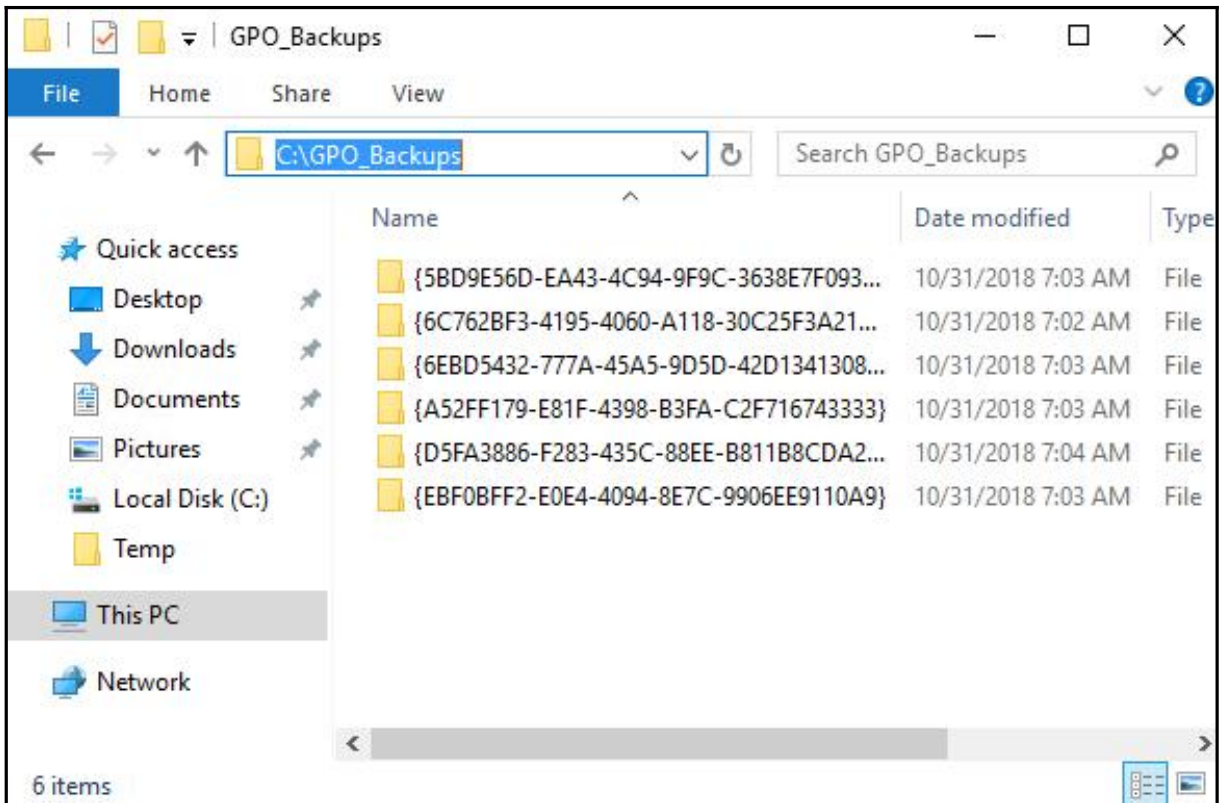


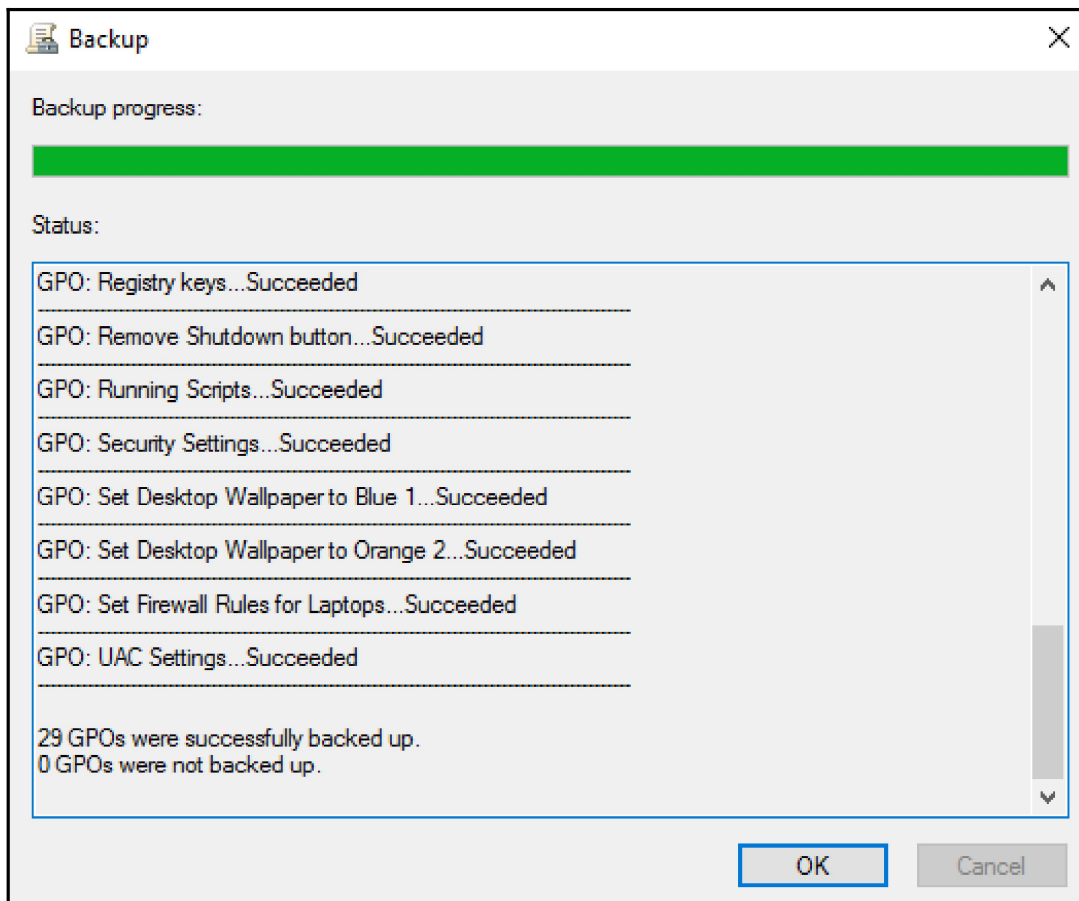


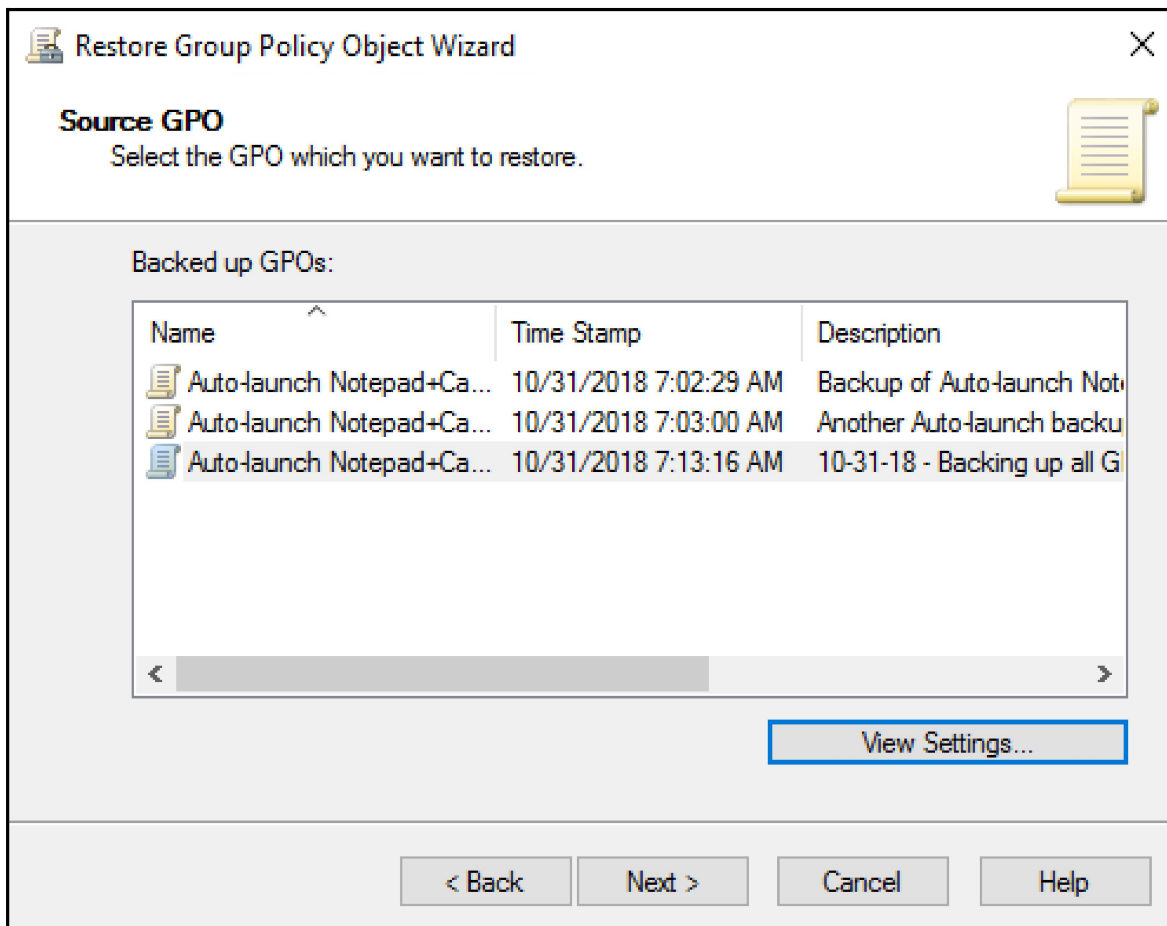


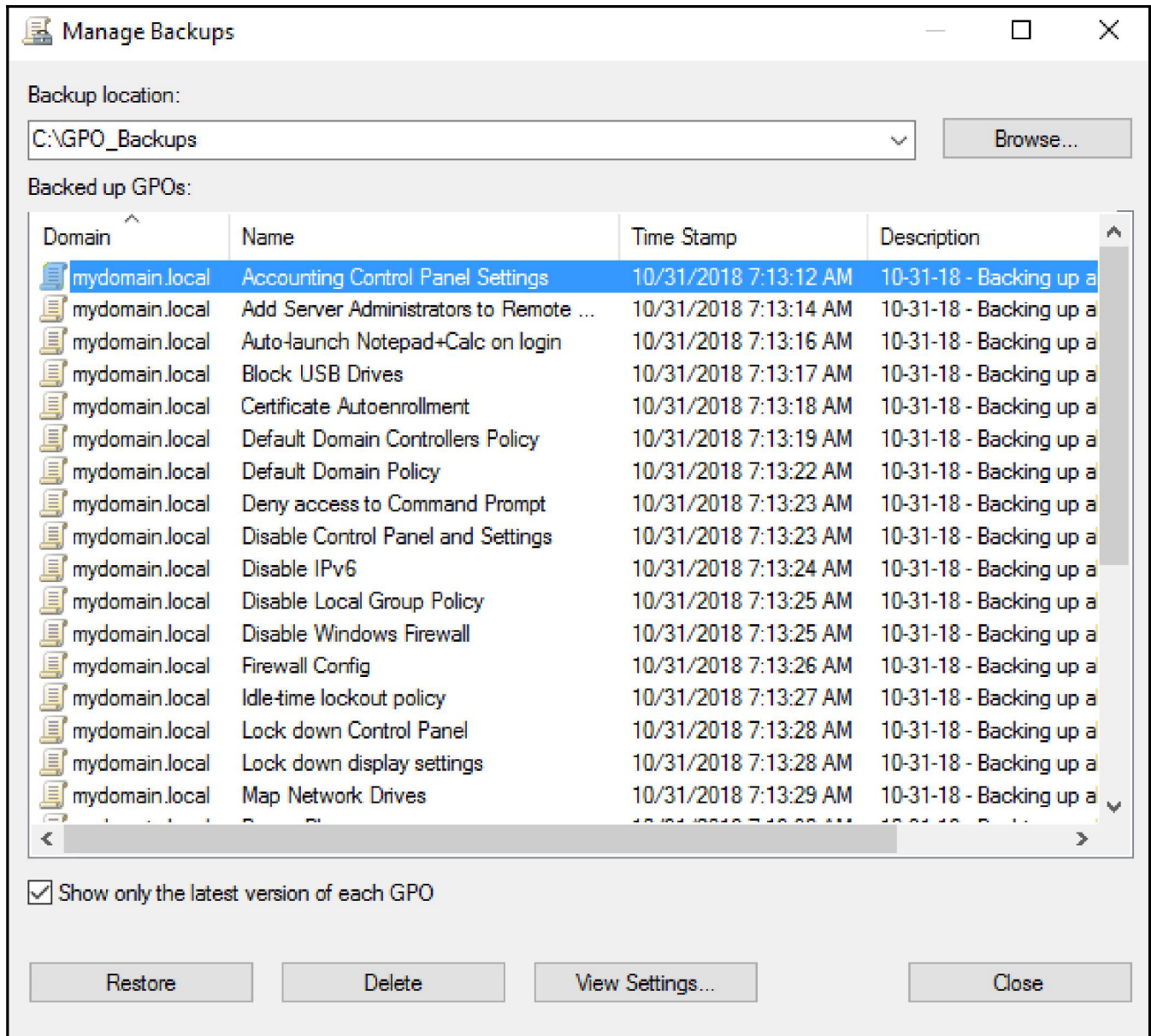












Auto-launch Notepad+Calc on login
Data collected on: 10/31/2018 9:40:35 AM

General

Details

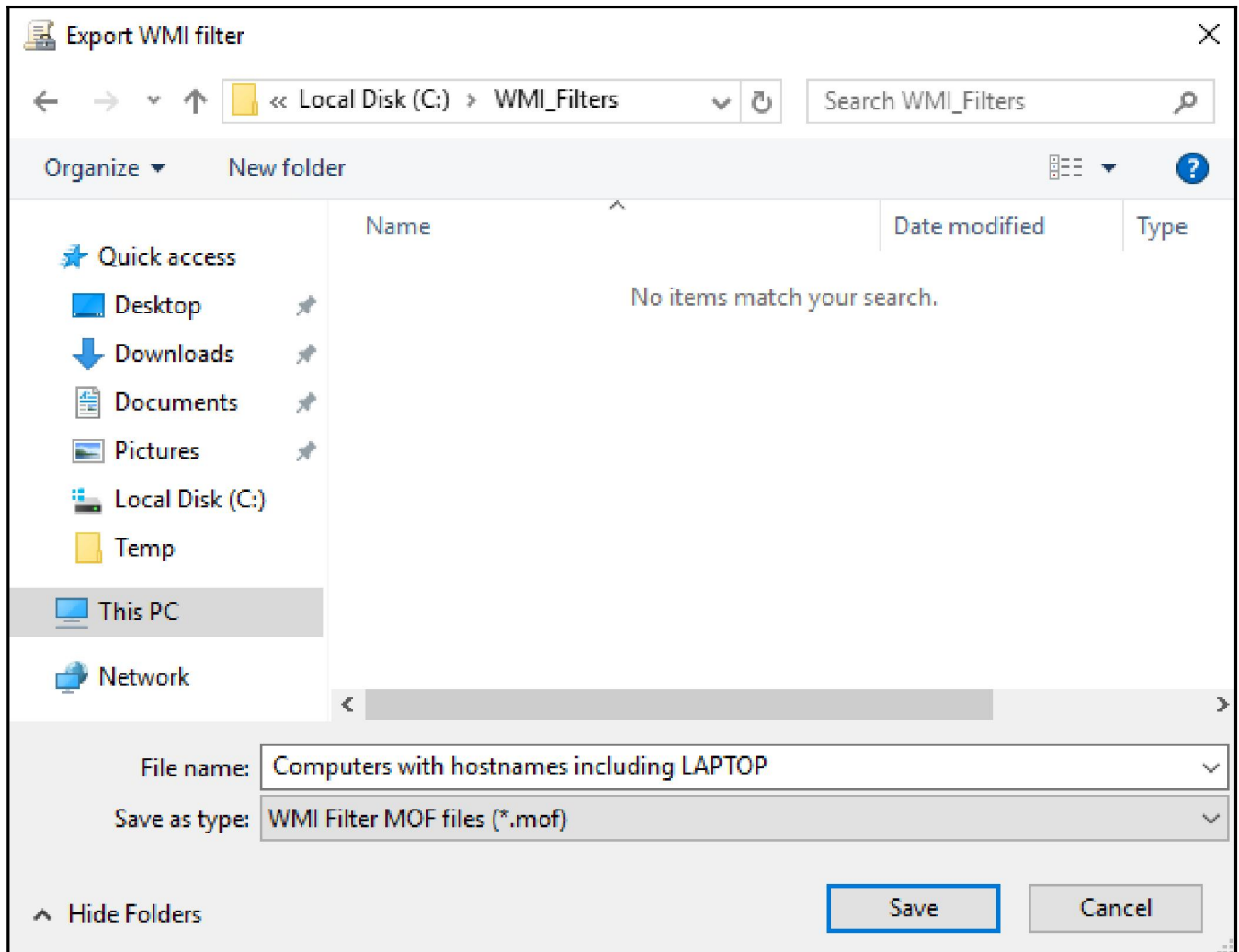
Domain	mydomain.local
Owner	MYDOMAIN\Domain Admins
Created	9/25/2018 9:54:12 AM
Modified	10/31/2018 9:19:40 AM
User Revisions	1 (AD), 1 (SYSVOL)
Computer Revisions	3 (AD), 3 (SYSVOL)
Unique ID	{713A82CF-5C90-427F-95E4-EAA2B3AA4C11}
GPO Status	Enabled

Links

Location	Enforced	Link Status	Path
Accounting Computers	No	Enabled	mydomain.local/Accounting/Accounting Computers
HR Department	No	Enabled	mydomain.local/HR Department
Testing GPOs	No	Enabled	mydomain.local/Testing GPOs

This list only includes links in the domain of the GPO.

Security Filtering



Import WMI filter

Name:
Computers with hostnames including "LAPTOP"

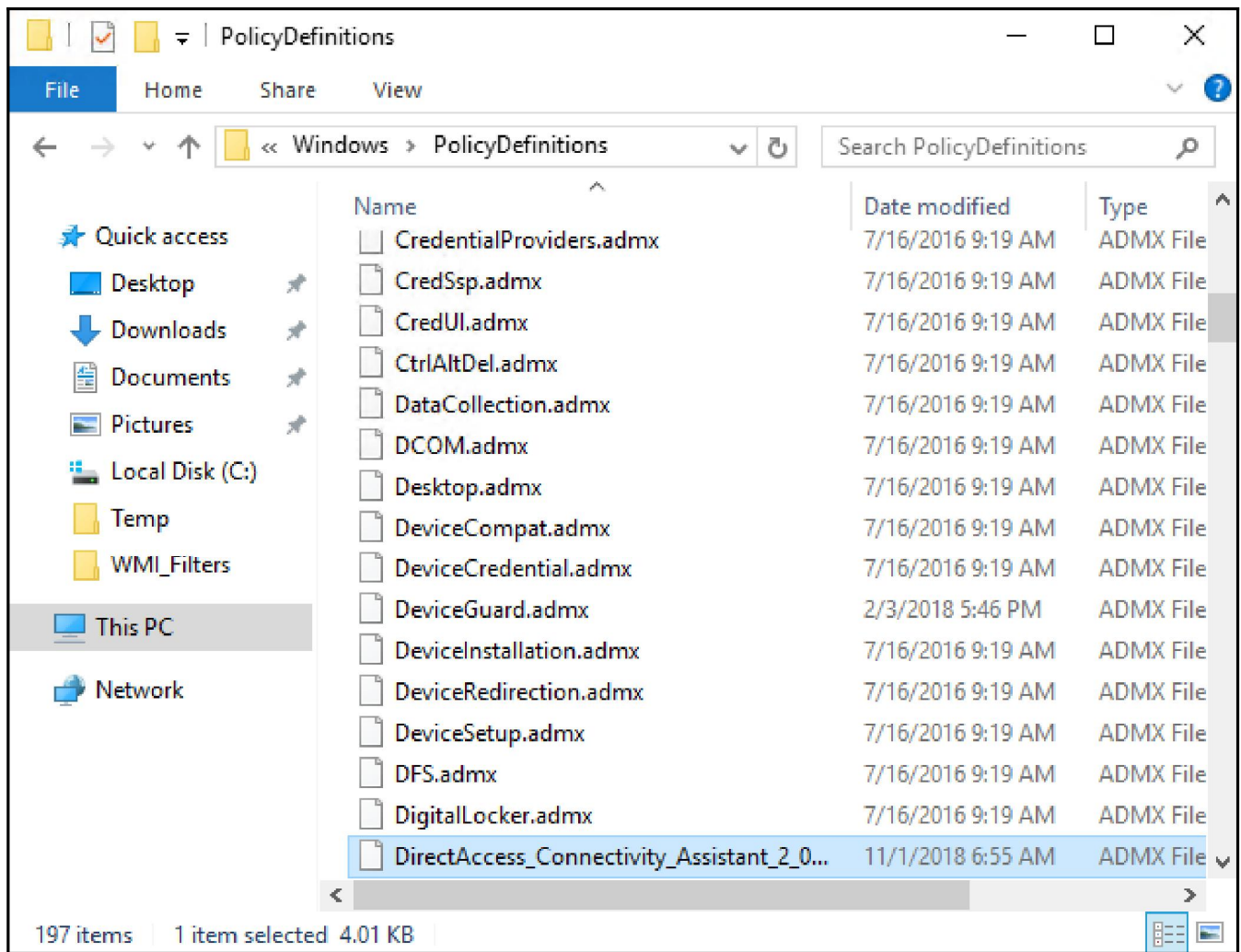
Description:
This WMI Filter applies GPOs only to computers whose hostnames include the word LAPTOP

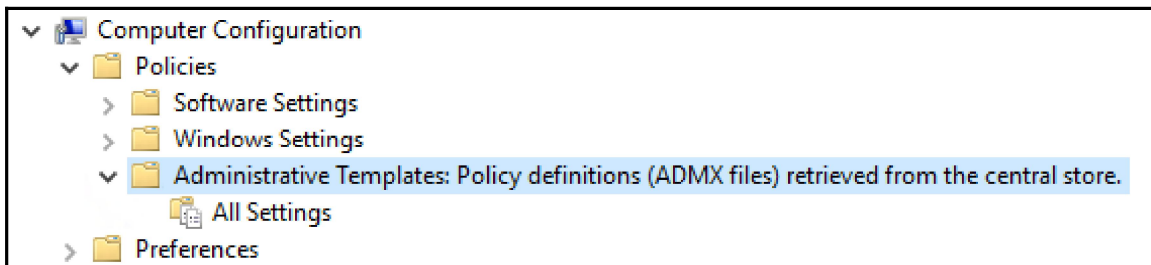
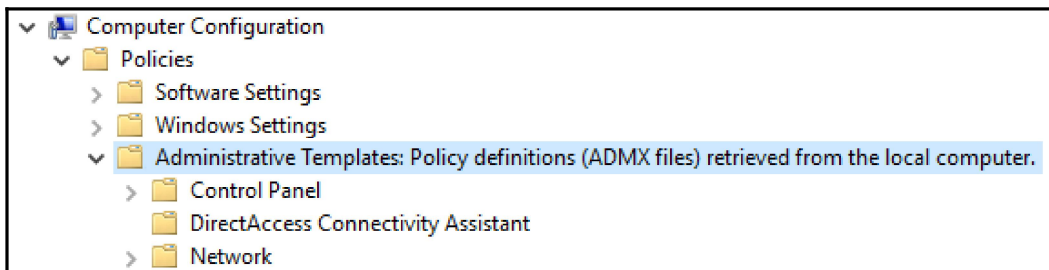
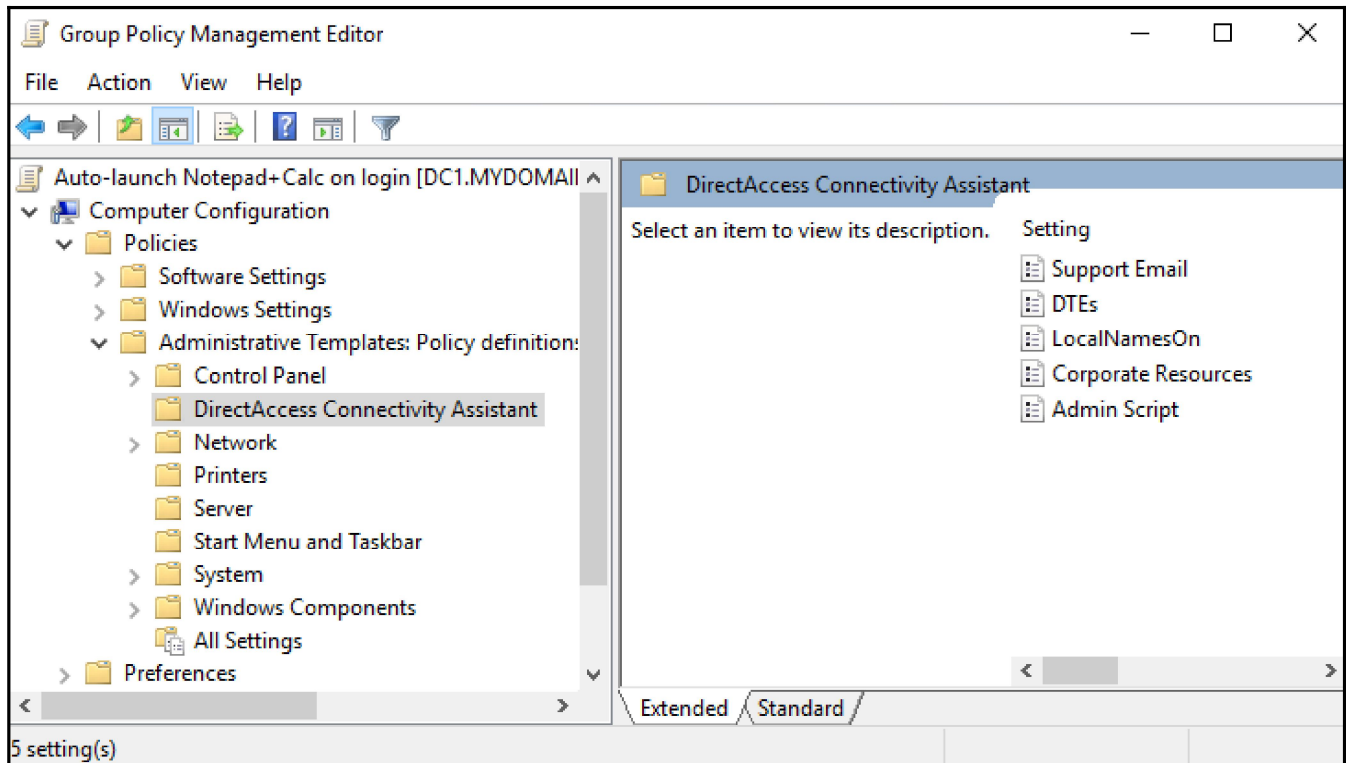
Queries:

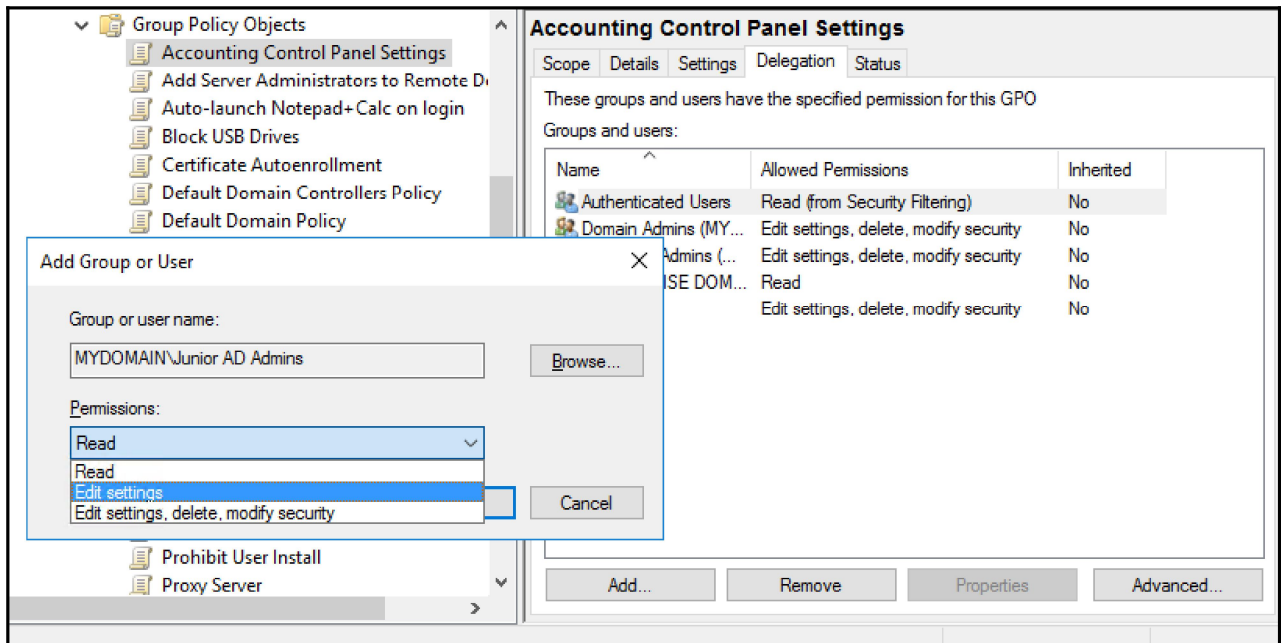
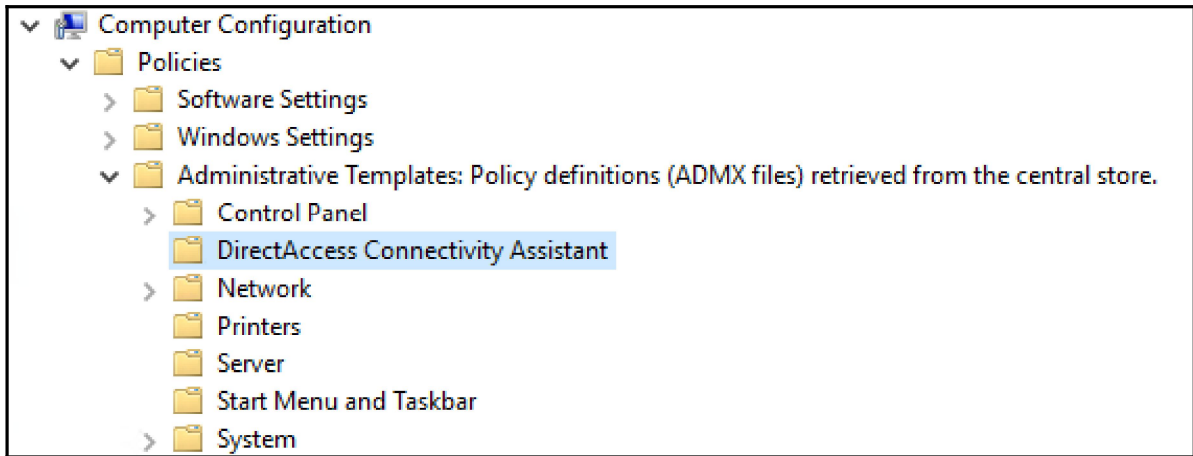
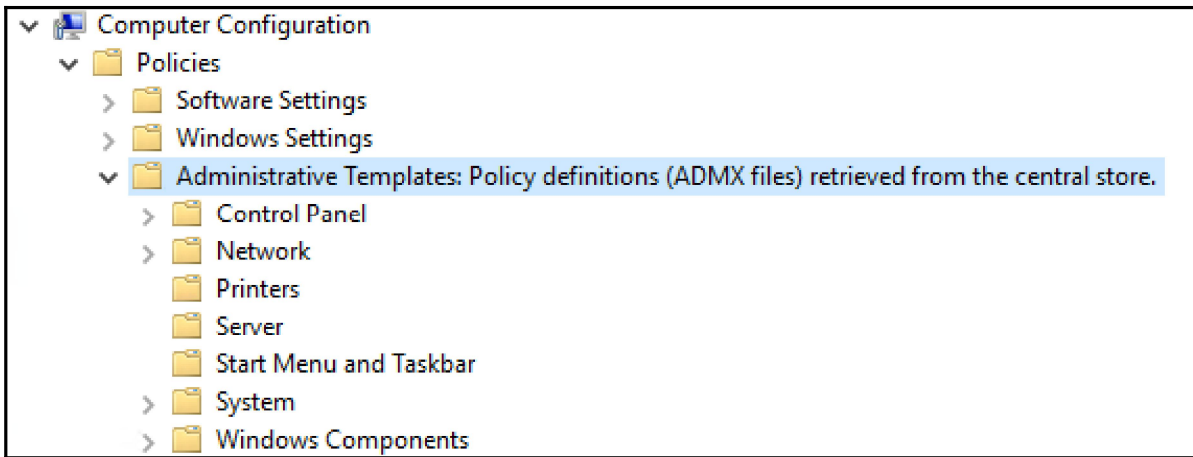
Namespace	Query
root\CIMv2	Select * From Win32_OperatingSystem Where (CSName like '%LAPTOP%')

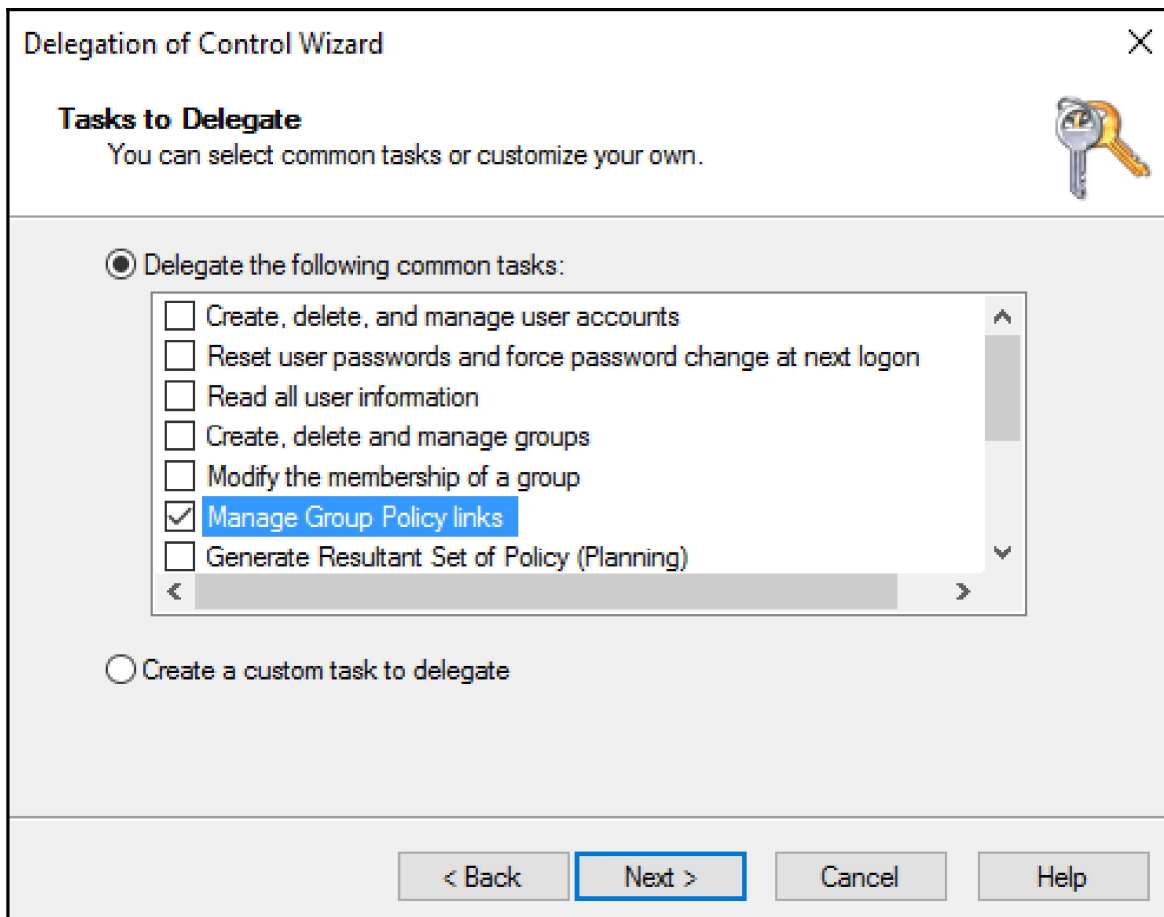
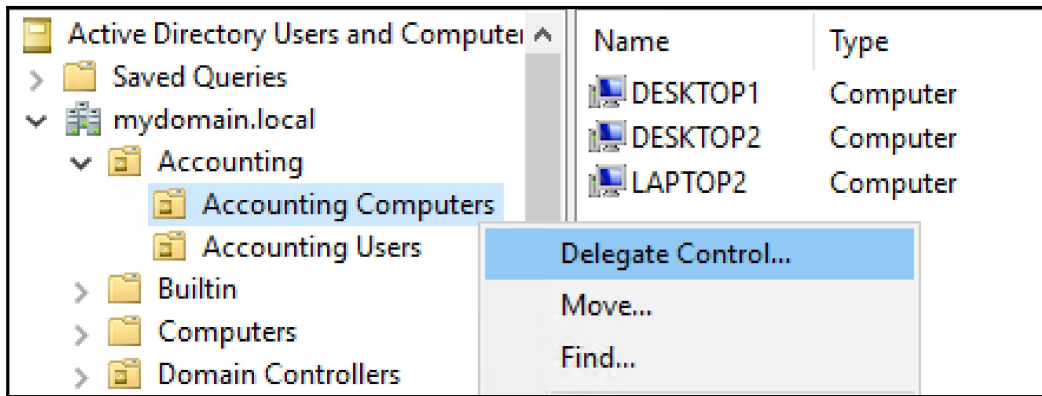
Add
Remove
Edit

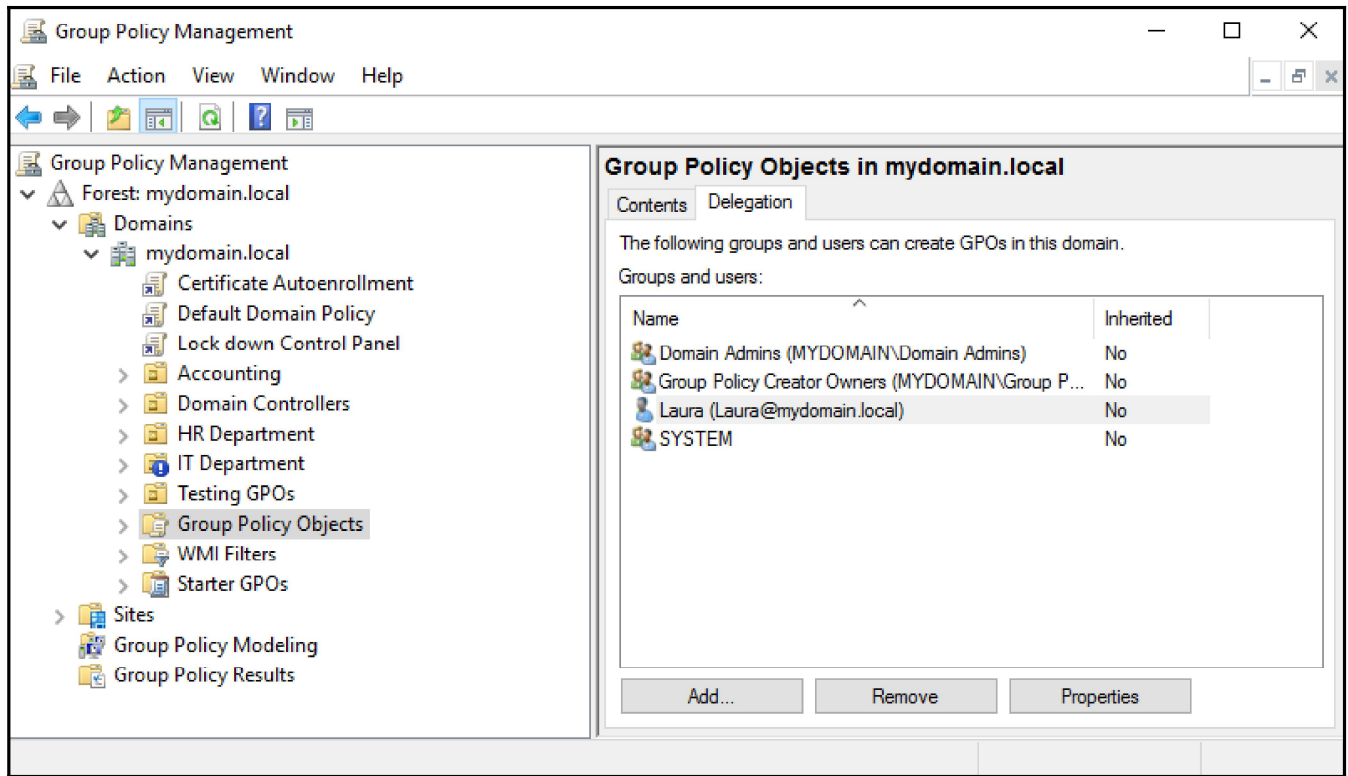
Import Cancel



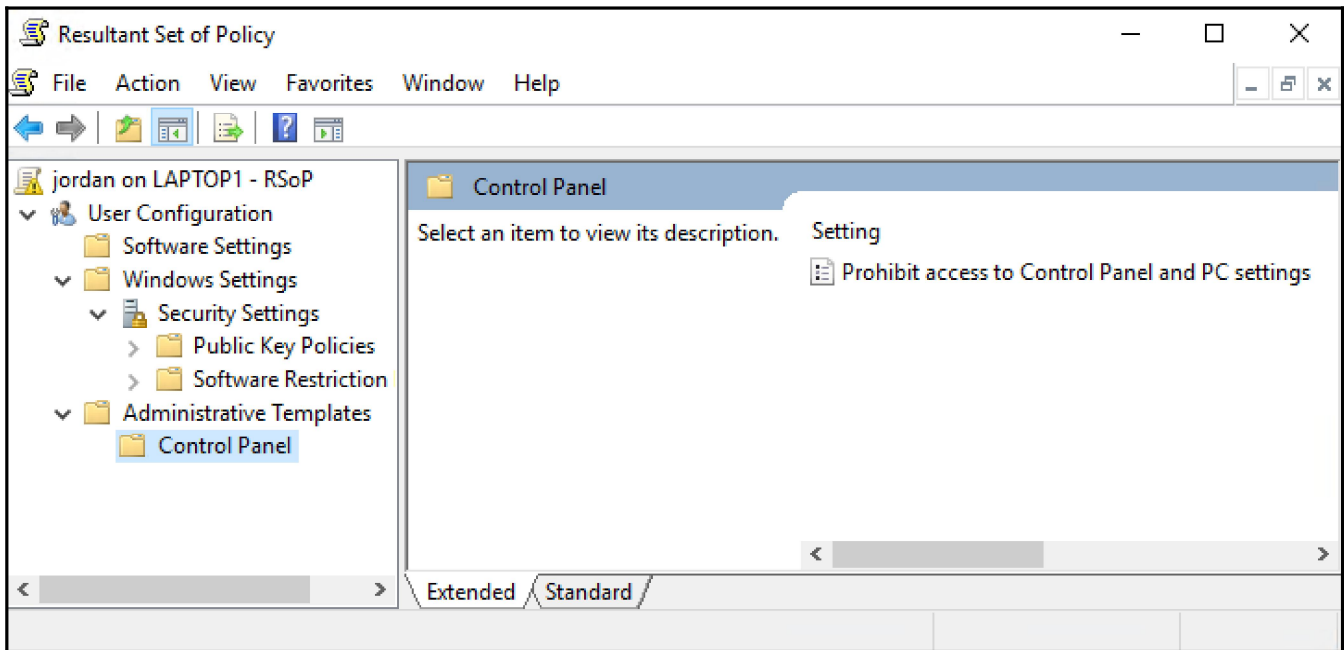








Chapter 09: Group Policy Troubleshooting




```
Command Prompt

RSOP data for MYDOMAIN\jordan on LAPTOP1 : Logging Mode
-----

OS Configuration:           Member Workstation
OS Version:                 10.0.17134
Site Name:                  N/A
Roaming Profile:           N/A
Local Profile:              C:\Users\jordan
Connected over a slow link?: No

USER SETTINGS
-----
CN=Jordan,OU=Accounting Users,OU=Accounting,DC=mydomain,DC=local
Last time Group Policy was applied: 11/5/2018 at 6:28:49 AM
Group Policy was applied from:    DC1.mydomain.local
Group Policy slow link threshold: 500 kbps
Domain Name:                     MYDOMAIN
Domain Type:                     Windows 2008 or later

Applied Group Policy Objects
-----
    Disable Control Panel and Settings
    Map Network Drives
    Proxy Server

The following GPOs were not applied because they were filtered out
-----
Local Group Policy
    Filtering: Not Applied (Empty)

Set Desktop Wallpaper to Orange 2
    Filtering: Not Applied (Unknown Reason)






Set Desktop Wallpaper to Blue 1
    Filtering: Not Applied (Unknown Reason)
```

Block USB Drives

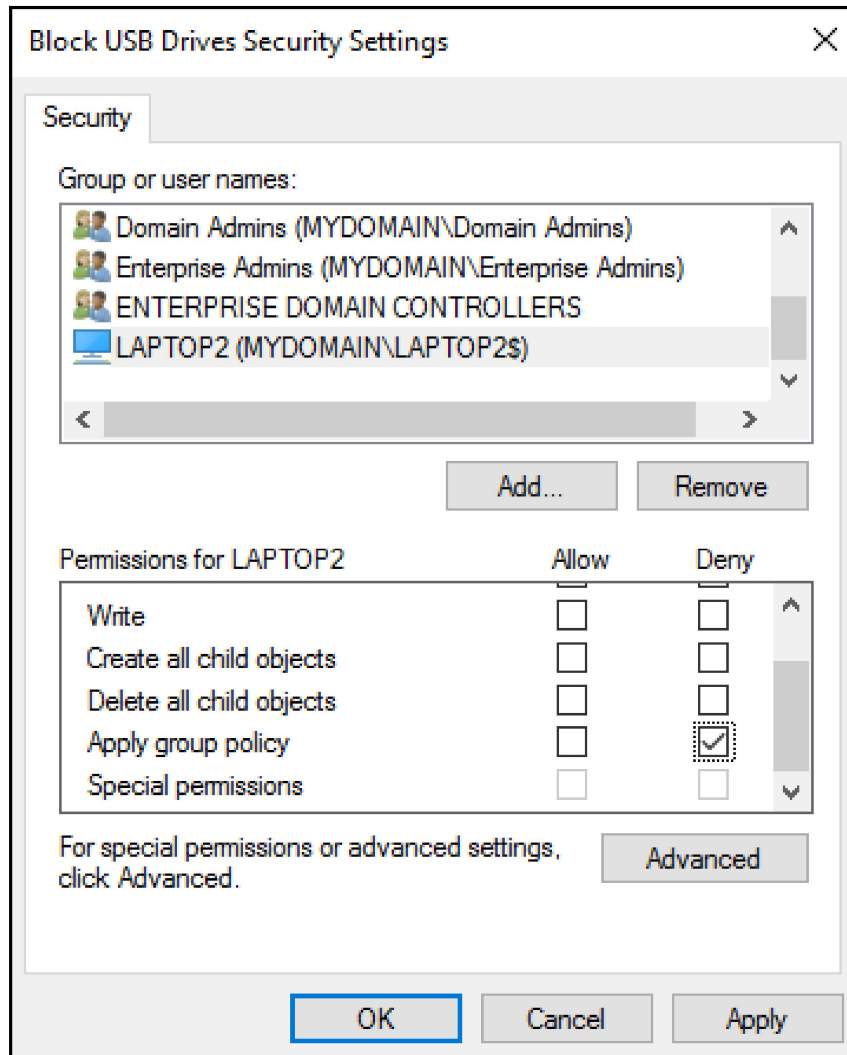
Scope Details Settings Delegation Status

These groups and users have the specified permission for this GPO

Groups and users:

Name	Allowed Permissions	Inherited
 Authenticated Users	Read (from Security Filtering)	No
 Domain Admins (MYDOM...	Edit settings, delete, modify security	No
 Enterprise Admins (MYDO...	Edit settings, delete, modify security	No
 ENTERPRISE DOMAIN ...	Read	No
 SYSTEM	Edit settings, delete, modify security	No

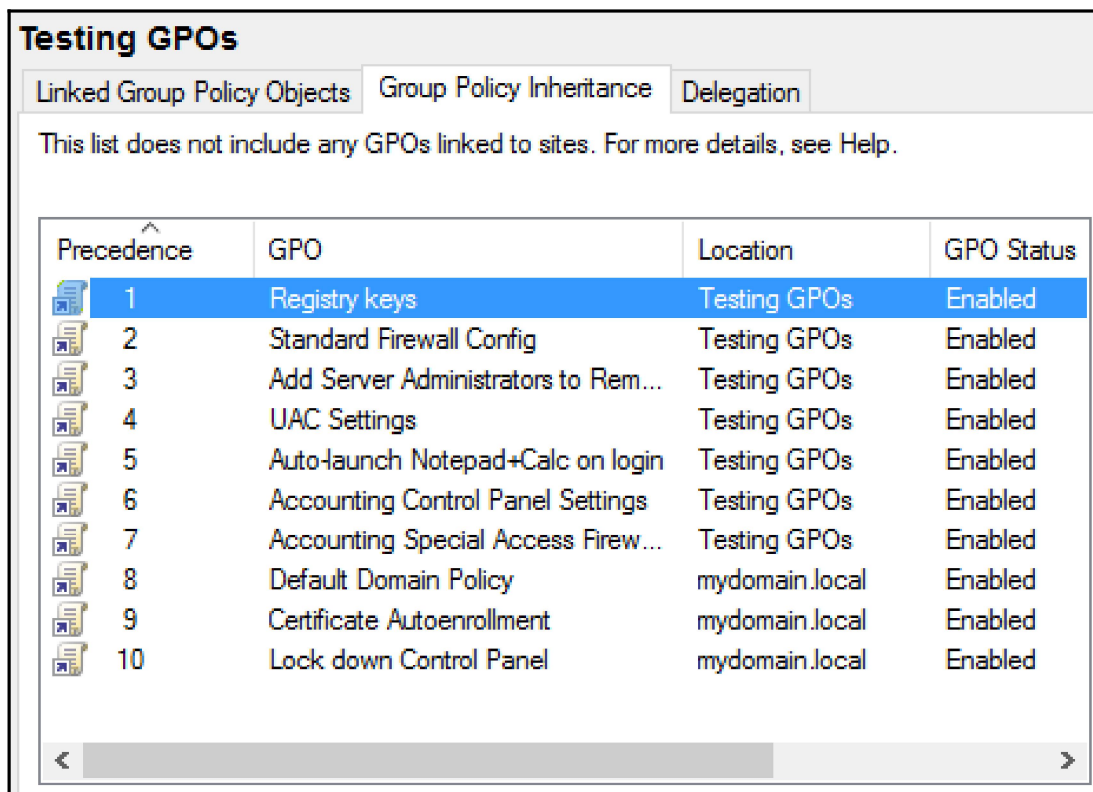
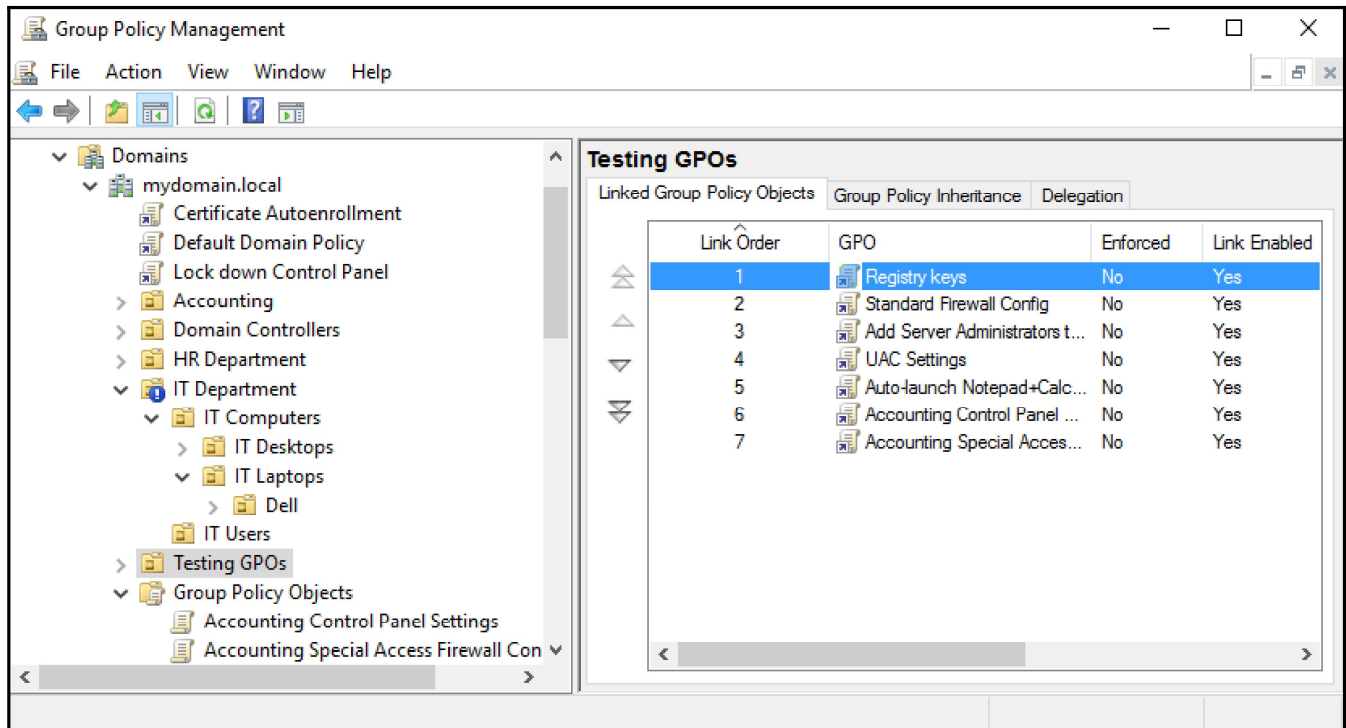
Add... Remove Properties Advanced...

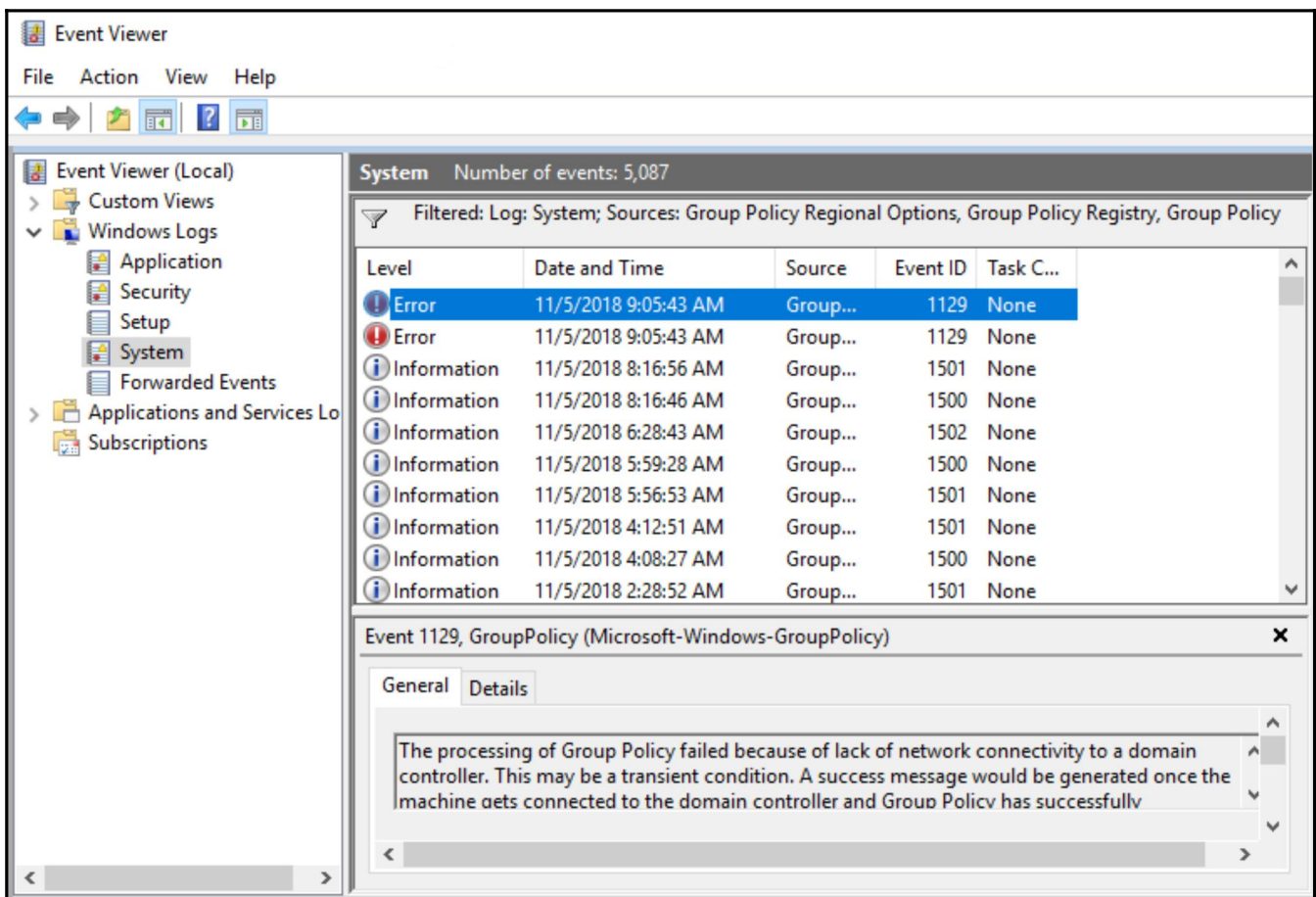
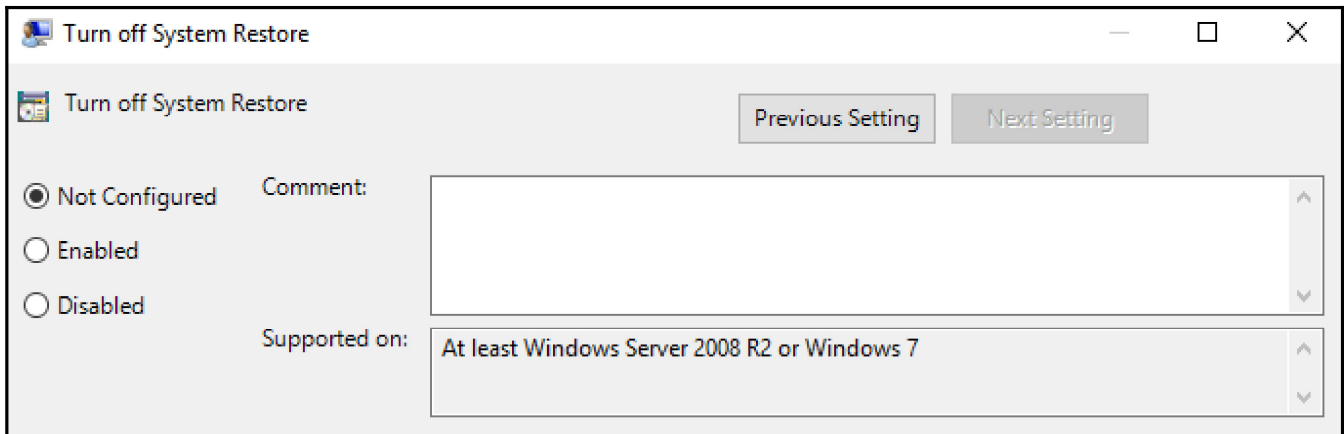


Block USB Drives

Scope	Details	Settings	Delegation	Status
Domain:	mydomain.local			
Owner:	Domain Admins (MYDOMAIN\Domain Admins)			
Created:	10/23/2018 9:10:40 AM			
Modified:	11/5/2018 7:07:20 AM			
User version:	0 (AD), 0 (SYSVOL)			
Computer version:	0 (AD), 0 (SYSVOL)			
Unique ID:	{7DE65654-956A-48CF-B0A4-70367A893316}			
GPO Status:	<div style="border: 1px solid black; padding: 2px;"> Enabled ▼ All settings disabled Computer configuration settings disabled Enabled User configuration settings disabled </div>			
Comment:				

- ▼ Domains
 - ▼ mydomain.local
 - 📄 Certificate Autoenrollment
 - 📄 Default Domain Policy
 - 📄 Lock down Control Panel
 - > 📁 Accounting
 - > 📁 Domain Controllers
 - > 📁 HR Department
 - ▼ 📁 IT Department
 - ▼ 📁 IT Computers
 - > 📁 IT Desktops
 - ▼ 📁 IT Laptops
 - > 📁 Dell
 - 📁 IT Users
 - ▼ 📁 Testing GPOs





Testing GPOs

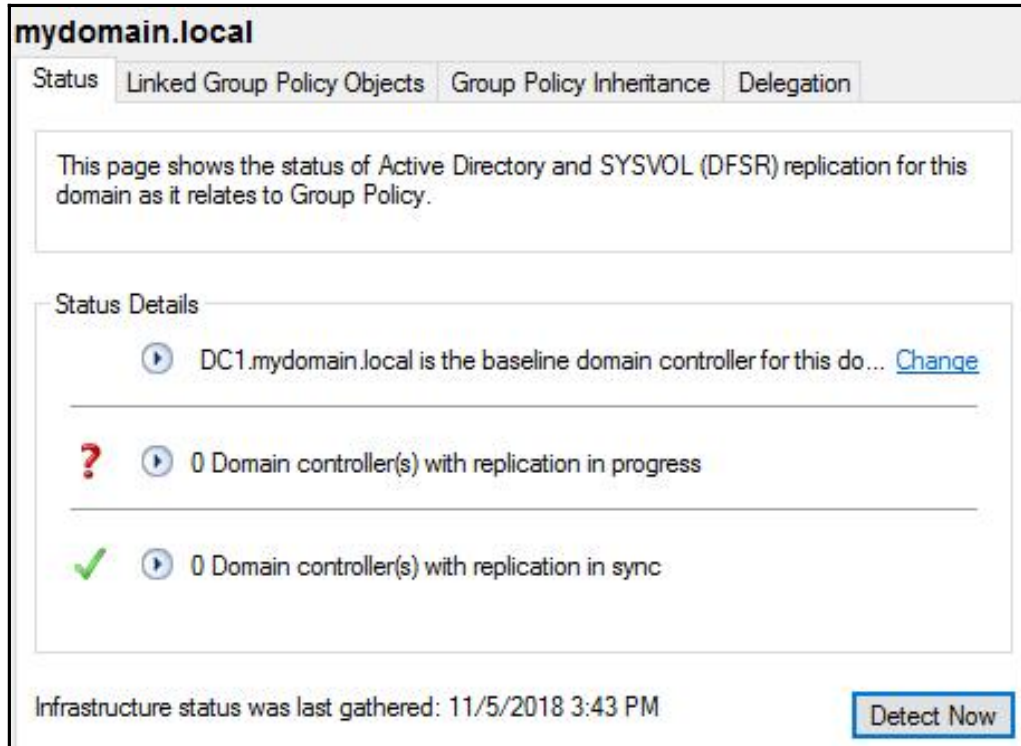
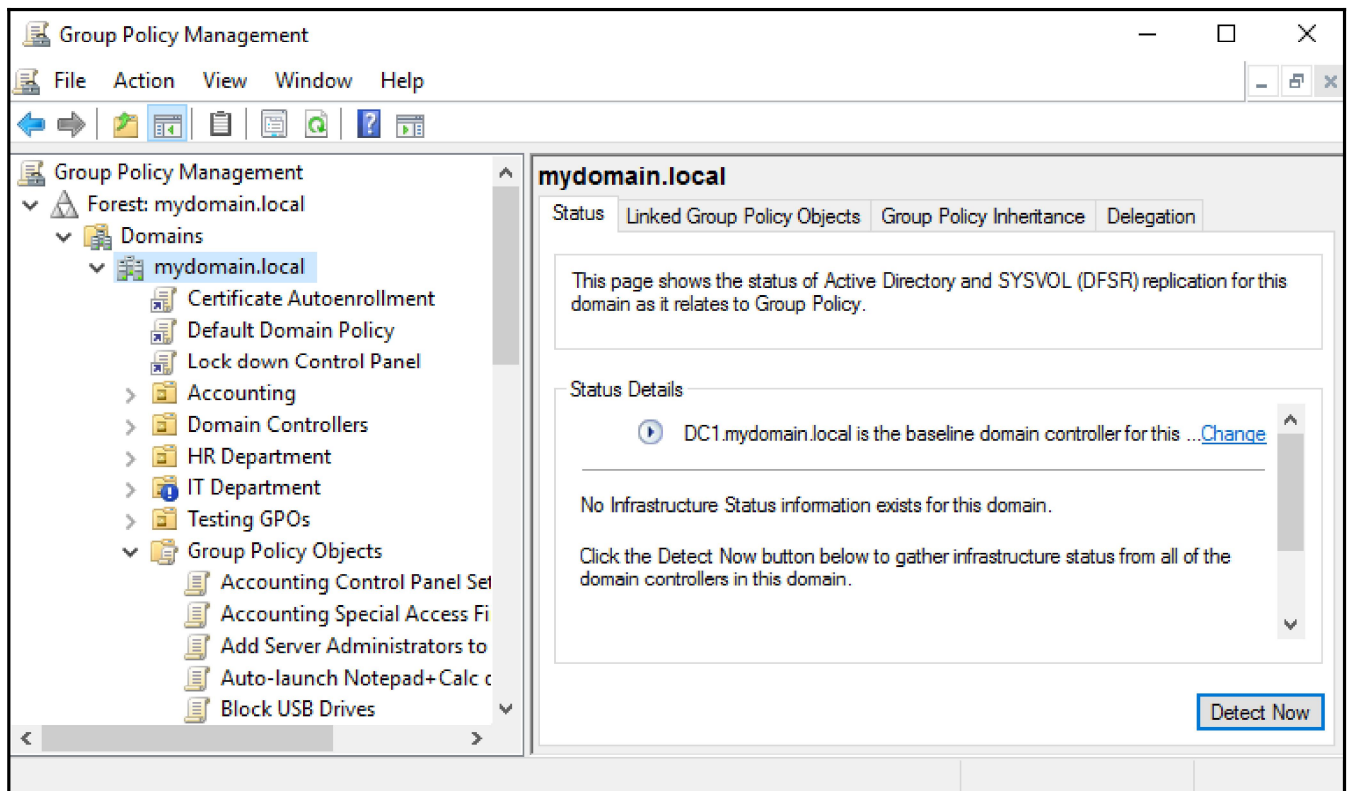
- Group Policy Objects
 - Accounting Control Panel Settings
 - Accounting Special Access Firewall Con
 - Add Server Administrators to Remote D
 - Auto-launch Notepad+ Calc on login
 - Block USB Drives
 - Certificate Autoenrollment
 - Default Domain Controllers Policy
 - Default Domain Policy
 - Deny access to Command Prompt
 - Disable Control Panel and Settings
 - Disable Local Group Policy
 - Disable Windows Firewall
 - IT Power Settings**
 - Standard Firewall Config
 - Idle-time lockout policy
 - Lock down Control Panel

IT Power Settings

Scope	Details	Settings	Delegation	Status
Domain:	mydomain.local			
Owner:	Domain Admins (MYDOMAIN\Domain Admins)			
Created:	11/5/2018 10:28:16 AM			
Modified:	11/5/2018 10:28:17 AM			
User version:	0 (AD), 0 (SYSVOL)			
Computer version:	0 (AD), 0 (SYSVOL)			
Unique ID:	{0599F30D-4634-4AD8-8C67-34ED43676FF3}			
GPO Status:	Enabled			
Comment:				

IT Power Settings

Scope	Details	Settings	Delegation	Status
Domain:	mydomain.local			
Owner:	Domain Admins (MYDOMAIN\Domain Admins)			
Created:	11/5/2018 10:28:16 AM			
Modified:	11/5/2018 10:39:02 AM			
User version:	4 (AD), 4 (SYSVOL)			
Computer version:	6 (AD), 6 (SYSVOL)			
Unique ID:	{0599F30D-4634-4AD8-8C67-34ED43676FF3}			
GPO Status:	Enabled			
Comment:				

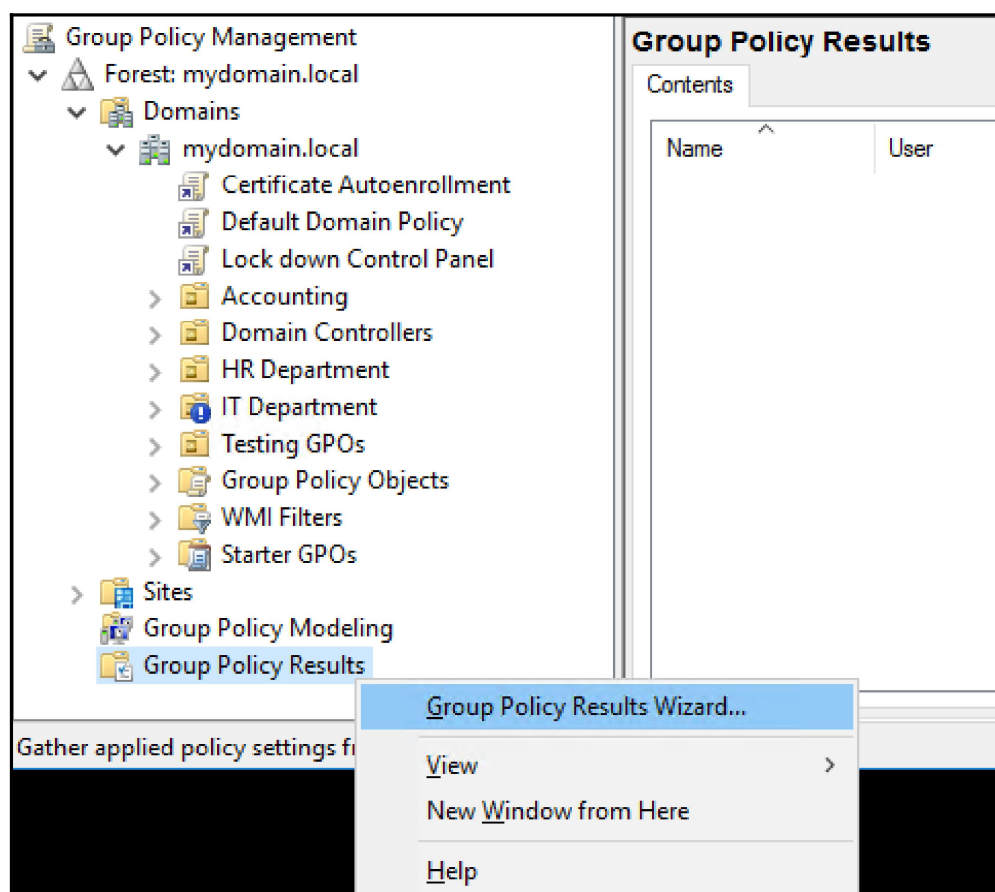


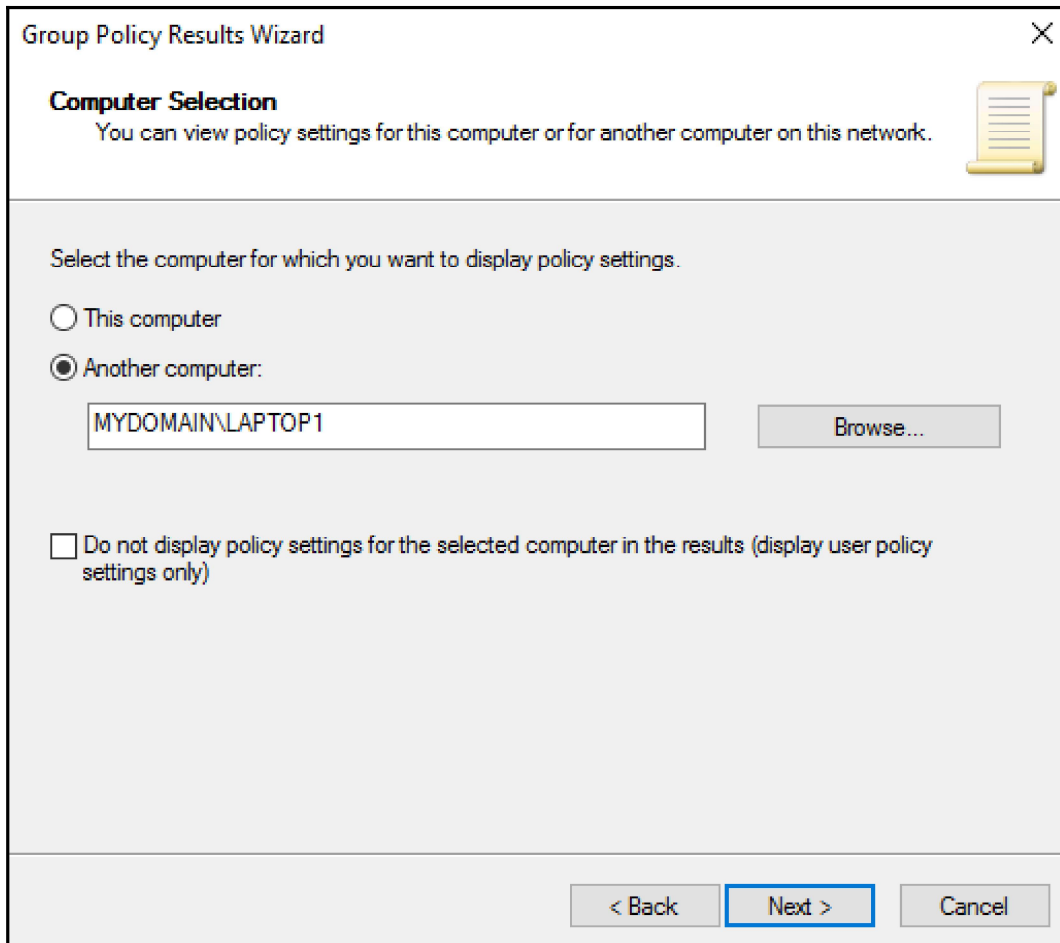

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.

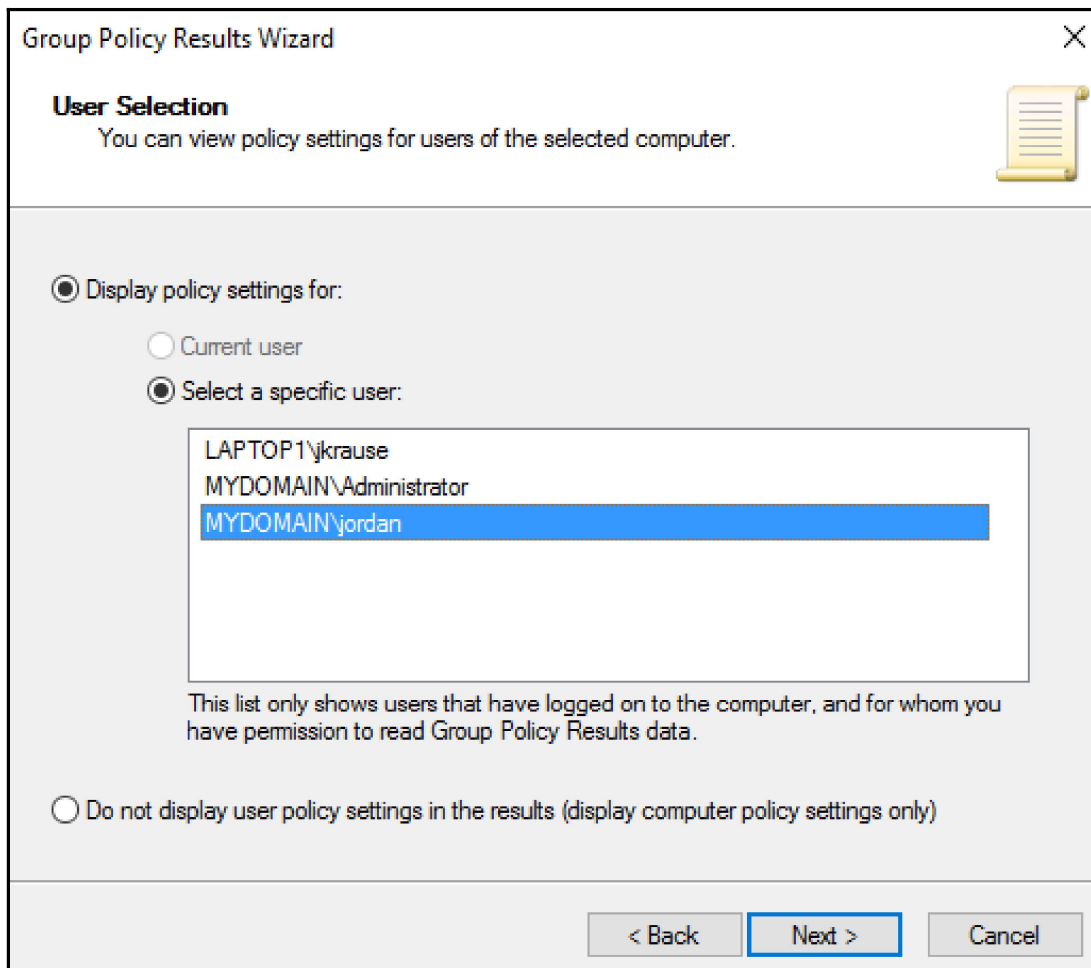
C:\Users\Administrator>dfsrmig /getmigrationstate

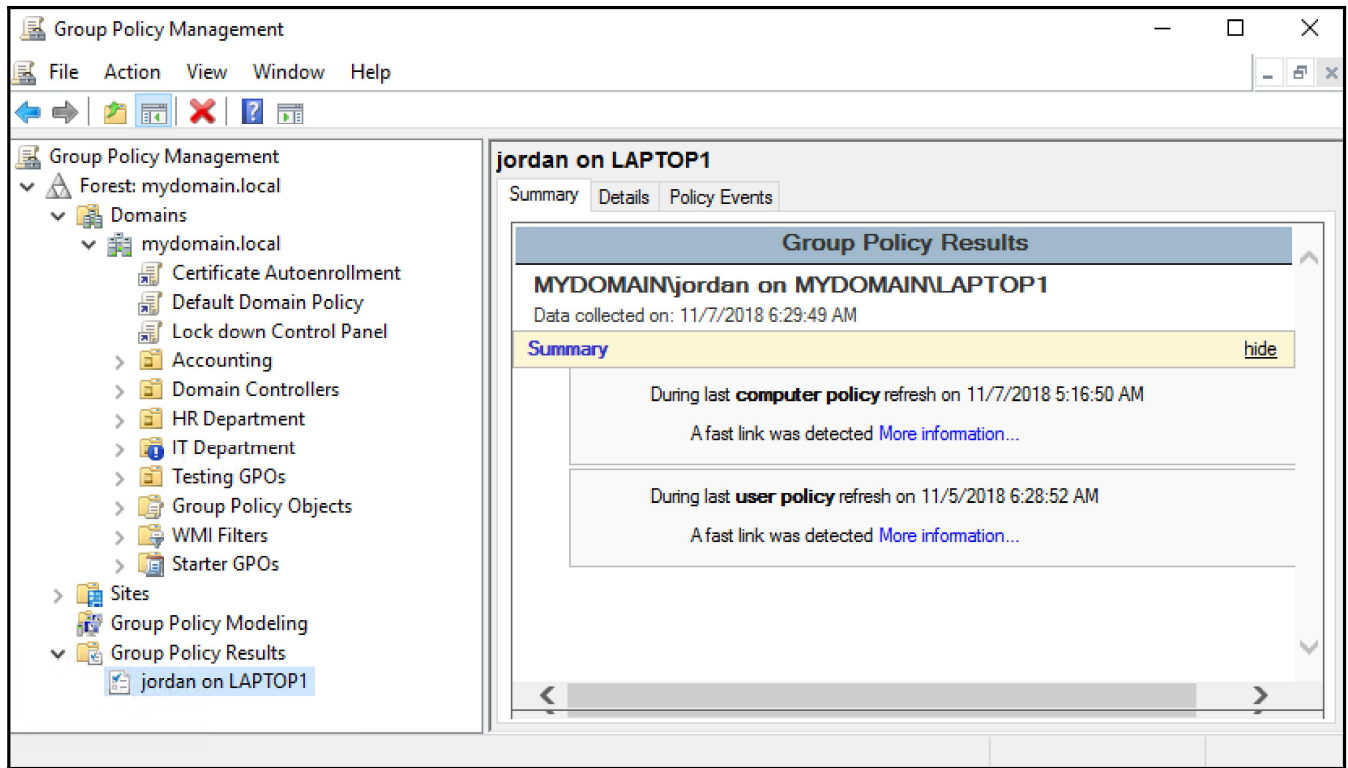
All domain controllers have migrated successfully to the Global state ('Eliminated').
Migration has reached a consistent state on all domain controllers.
Succeeded.

C:\Users\Administrator>
```









jordan on LAPTOP1

Summary Details Policy Events

- Settings** [hide](#)
- Policies** [hide](#)
 - Windows Settings [hide](#)
 - Security Settings [show](#)
- Administrative Templates** [show](#)
- Preferences** [hide](#)
 - Windows Settings [hide](#)
 - Registry [show](#)
- Control Panel Settings** [hide](#)
 - Local Users and Groups [show](#)
- Group Policy Objects** [hide](#)
- Applied GPOs** [hide](#)
 - Accounting Control Panel Settings [{228A3E54-A114-49E5-9888-893340C022A1}] [hide](#)

Link Location	mydomain.local/Testing GPOs
Extensions Configured	Registry
Enforced	No
Disabled	None

jordan on LAPTOP1

Summary Details Policy Events

Type	Date	Time	Source	Category	Event ID	User	Computer
Information	11/7/...	3:28:5...	ScceCli	None	1704	N/A	LAPTOP1.my...
Information	11/6/...	11:16:...	ScceCli	None	1704	N/A	LAPTOP1.my...
Information	11/5/...	7:04:5...	ScceCli	None	1704	N/A	LAPTOP1.my...
Information	11/5/...	2:17:3...	ScceCli	None	1704	N/A	LAPTOP1.my...
Information	11/4/...	9:38:3...	ScceCli	None	1704	N/A	LAPTOP1.my...
Information	11/3/...	4:59:3...	ScceCli	None	1704	N/A	LAPTOP1.my...
Information	11/3/...	12:20:...	ScceCli	None	1704	N/A	LAPTOP1.my...
Information	11/2/...	7:41:3...	ScceCli	None	1704	N/A	LAPTOP1.my...
Information	11/1/...	3:02:3...	ScceCli	None	1704	N/A	LAPTOP1.my...
Information	10/31/...	10:23:...	ScceCli	None	1704	N/A	LAPTOP1.my...
Information	10/31/...	5:44:3...	ScceCli	None	1704	N/A	LAPTOP1.my...
Information	10/30/...	1:05:3...	ScceCli	None	1704	N/A	LAPTOP1.my...
Information	11/7/...	5:46:5...	GroupPoli...	None	1501	MYDOMA...	LAPTOP1.my...
Information	11/7/...	5:16:5...	GroupPoli...	None	1500	NT AUTH...	LAPTOP1.my...
Information	11/7/...	4:01:5...	GroupPoli...	None	1501	MYDOMA...	LAPTOP1.my...
Information	11/7/...	3:28:5...	GroupPoli...	None	1500	NT AUTH...	LAPTOP1.my...
Information	11/7/...	2:16:5...	GroupPoli...	None	1501	MYDOMA...	LAPTOP1.my...
Information	11/7/...	1:40:4...	GroupPoli...	None	1500	NT AUTH...	LAPTOP1.my...
Information	11/7/...	12:31:...	GroupPoli...	None	1501	MYDOMA...	LAPTOP1.my...
Information	11/6/...	11:52:...	GroupPoli...	None	1500	NT AUTH...	LAPTOP1.my...
Information	11/6/...	10:46:...	GroupPoli...	None	1501	MYDOMA...	LAPTOP1.my...
Information	11/6/...	10:04:...	GroupPoli...	None	1500	NT AUTH...	LAPTOP1.my...

Group Policy Modeling Wizard

User and Computer Selection

You can view simulated policy settings for a selected user (or a container with user information) and computer (or a container with computer information).

Example container name: CN=Users,DC=mydomain,DC=local
Example user or computer: MYDOMAIN\Administrator

Simulate policy settings for the following:

User information

Container: Browse...

User: MYDOMAIN\Laura Browse...

Computer information

Container: Browse...

Computer: MYDOMAIN\LAPTOP1 Browse...

Skip to the final page of this wizard without collecting additional data

< Back Next > Cancel

Advanced Simulation Options

You can select additional options for your simulation.



Simulate policy implementation for the following:

Slow network connection (for example, a dial-up connection)

Loopback processing

Replace

Merge

Site:

Holland



Alternate Active Directory Paths

You can simulate changes to the network location of the selected user and computer.



Enter new network locations for which to simulate policy settings.

User location:

OU=Accounting Users,OU=Accounting,DC=mydomain,DC=local

Browse...

Computer location:

OU=Accounting Computers,OU=Accounting,DC=mydomain,DC=local

Browse...

Restore to Defaults

Group Policy Management

- ▼ Forest: mydomain.local
 - ▼ Domains
 - ▼ mydomain.local
 - Certificate Autoenrollment
 - Default Domain Policy
 - Lock down Control Panel
 - > Accounting
 - > Domain Controllers
 - > HR Department
 - > IT Department
 - > Testing GPOs
 - > Group Policy Objects
 - > WMI Filters
 - > Starter GPOs
 - > Sites
 - ▼ Group Policy Modeling
 - Laura on LAPTOP1
 - ▼ Group Policy Results
 - jordan on LAPTOP1

Laura on LAPTOP1

Summary Details Query

Component Status [hide](#)

Component Name	Status
Group Policy Infrastructure	Success
Registry	Success
Security	Success

Settings [hide](#)

Policies [hide](#)

- Windows Settings** [hide](#)
- Security Settings** [show](#)
- Administrative Templates** [show](#)

Group Policy Objects [hide](#)

Applied GPOs [hide](#)

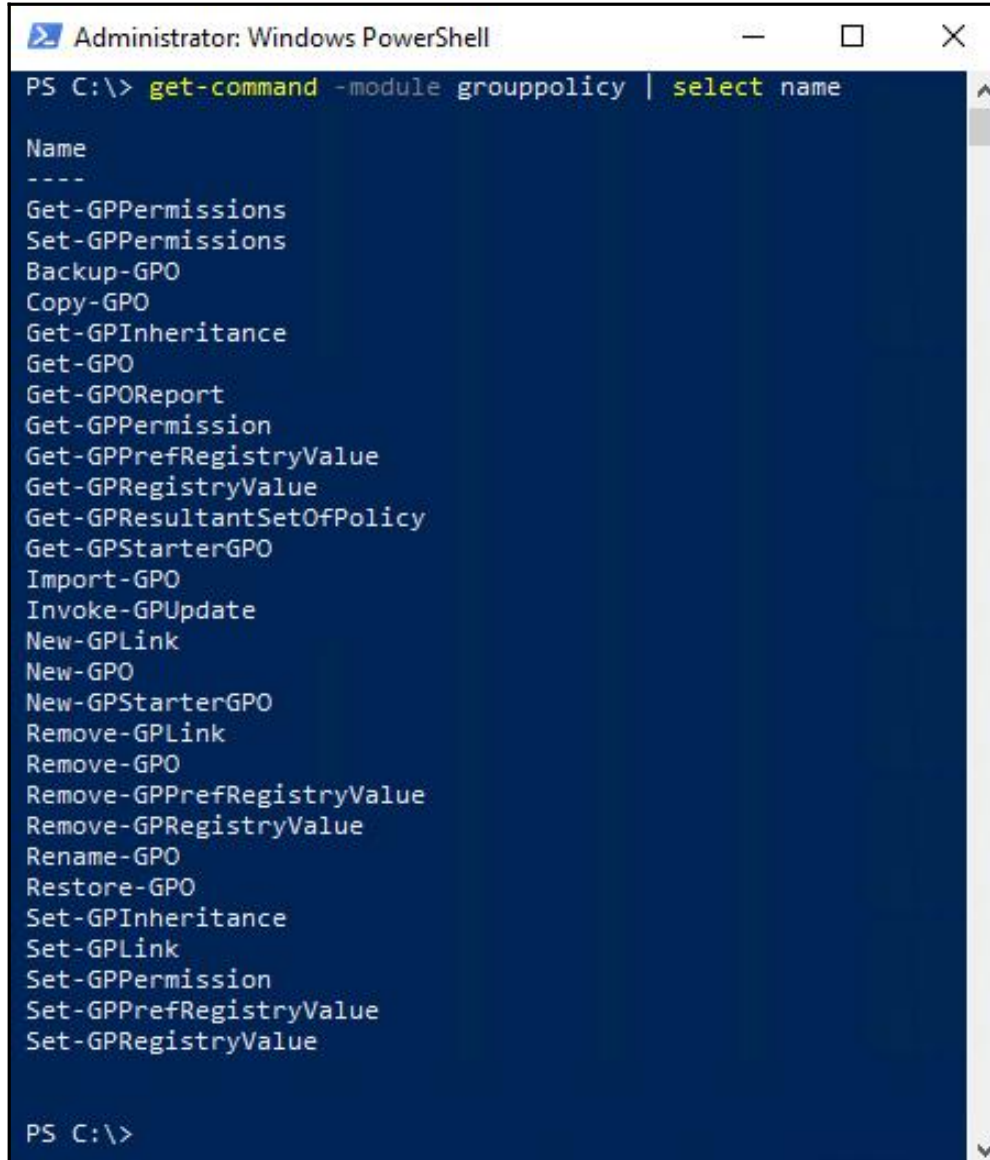
- Auto-launch Notepad+Calc on login [{713A82CF-5C90-427F-95E4-EAA2B3AA4C11}] [show](#)
- Default Domain Policy [{31B2F340-016D-11D2-945F-00C04FB984F9}] [show](#)

Denied GPOs [hide](#)

- Certificate Autoenrollment [{7956C089-4BA2-49BF-9616-E9A88AF0FF0B}] [show](#)

WMI Filters [hide](#)

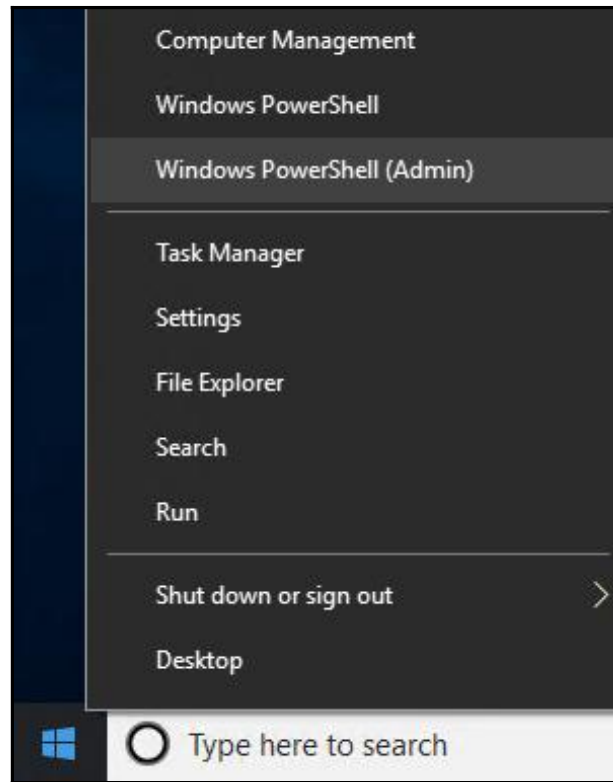
Chapter 10: PowerShell for Group Policy Administration

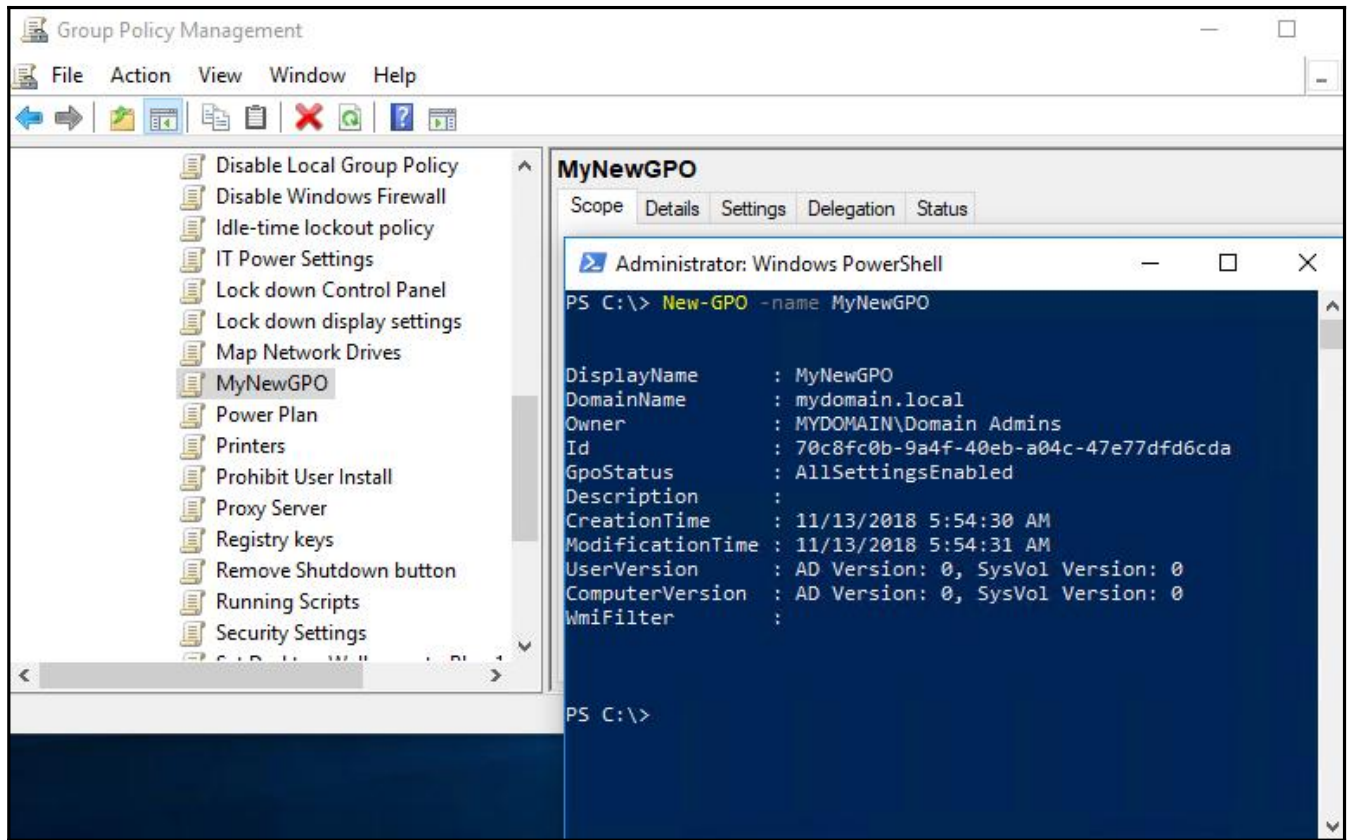


```
Administrator: Windows PowerShell
PS C:\> get-command -module grouppolicy | select name

Name
----
Get-GPPermissions
Set-GPPermissions
Backup-GPO
Copy-GPO
Get-GPInheritance
Get-GPO
Get-GPOReport
Get-GPPermission
Get-GPPrefRegistryValue
Get-GPRegistryValue
Get-GPResultantSetOfPolicy
Get-GPStarterGPO
Import-GPO
Invoke-GPUdate
New-GPLink
New-GPO
New-GPStarterGPO
Remove-GPLink
Remove-GPO
Remove-GPPrefRegistryValue
Remove-GPRegistryValue
Rename-GPO
Restore-GPO
Set-GPInheritance
Set-GPLink
Set-GPPermission
Set-GPPrefRegistryValue
Set-GPRegistryValue

PS C:\>
```





The screenshot shows the Group Policy Management console for the domain 'mydomain.local'. The left pane shows the hierarchy: Forest: mydomain.local > Domains > mydomain.local > IT Department > MyNewGPO. The right pane shows the configuration for 'MyNewGPO'.

MyNewGPO Configuration:

- Scope: Details
- Links: Display links in this location: mydomain.local
- The following sites, domains, and OUs are linked to this GPO:

Location	Enforced	Link Enabled
IT Department	No	Yes
- Security Filtering: The settings in this GPO can only apply to the following groups, users, and computers.

Below the console, a PowerShell window shows the command and output for creating the GPO link:

```

Administrator: Windows PowerShell
PS C:\> New-GPlink -name MyNewGPO -target "ou=IT Department,dc=mydomain,dc=local"

GpoId      : 70c8fc0b-9a4f-40eb-a04c-47e77dfd6cda
DisplayName : MyNewGPO
Enabled    : True
Enforced   : False
Target     : OU=IT Department,DC=mydomain,DC=local
Order      : 1
  
```

The screenshot shows the Group Policy Objects console. The left pane shows the hierarchy: Group Policy Objects > Starter GPOs > My New Starter GPO. The right pane shows the configuration for 'My New Starter GPO'.

My New Starter GPO Configuration:

- Modified: 11/13/2018 6:22:22 AM
- Starter GPO version: User:0 Computer:0

Below the console, a PowerShell window shows the command and output for creating the starter GPO:

```

Administrator: Windows PowerShell
PS C:\> New-GPStarterGPO -Name "My New Starter GPO"

DisplayName : My New Starter GPO
Id          : e3a48254-a879-4810-bc38-5d0257623afc
Owner       : BUILTIN\Administrators
CreationTime : 11/13/2018 6:22:22 AM
ModificationTime : 11/13/2018 6:22:22 AM
  
```


The screenshot shows the Group Policy Management console with the 'HR Department' GPO selected. The 'Group Policy Inheritance' tab is active, displaying a table of linked GPOs:

Link Order	GPO	Enforced	Link Enabled
1	Set Firewall Rules fo...	No	Yes
2	Disable Windows Fir...	No	Yes
3	Auto-launch Notepa...	No	Yes

An Administrator: Windows PowerShell window is open, showing the execution of the following command:

```
PS C:\> Set-GPInheritance -Target "ou=HR Department,dc=mydomain,dc=local" -IsBlocked Yes
```

The output of the command is:

```
Name : hr department
ContainerType : OU
Path : ou=hr department,dc=mydomain,dc=local
GpoInheritanceBlocked : Yes
```

The screenshot shows the Group Policy Management console with the 'MyNewGPO' selected. The 'Links' tab is active, showing the following configuration:

Display links in this location: mydomain.local

The following sites, domains, and OUs are linked to this GPO:

Location	Enforced	Link Enabled
IT Department	No	Yes

The 'Security Filtering' tab is also active, showing the following groups, users, and computers:

Name
Server Administrators (MYDOMAIN\Server Administrators)

An Administrator: Windows PowerShell window is open, showing the execution of the following command:

```
PS C:\> Set-GPPermissions -Name "MyNewGPO" -PermissionLevel gpoapply -TargetName "Server Administrators" -TargetType group
```

The output of the command is:

```
DisplayName : MyNewGPO
DomainName : mydomain.local
```

```
Administrator: Windows PowerShell
PS C:\> Get-GPO MyNewGPO

DisplayName       : MyNewGPO
DomainName        : mydomain.local
Owner             : MYDOMAIN\Domain Admins
Id                : 70c8fc0b-9a4f-40eb-a04c-47e77dfd6cda
GpoStatus         : AllSettingsEnabled
Description       :
CreationTime      : 11/13/2018 5:54:30 AM
ModificationTime  : 11/13/2018 6:45:18 AM
UserVersion       : AD Version: 0, SysVol Version: 0
ComputerVersion   : AD Version: 0, SysVol Version: 0
WmiFilter         :

PS C:\>
```

```
Administrator: Windows PowerShell
PS C:\> Get-GPO -ALL | select DisplayName

DisplayName
-----
Add Server Administrators to Remote Desktop Users
IT Power Settings
Disable Control Panel and Settings
Accounting Control Panel Settings
Prohibit User Install
Security Settings
Running Scripts
Set Firewall Rules for Laptops
Default Domain Policy
Printers
Deny access to Command Prompt
Configure Slow Link Detection
Disable Local Group Policy
Proxy Server
Power Plan
UAC Settings
Default Domain Controllers Policy
MyNewGPO
Auto-launch Notepad+Calc on login
Certificate Autoenrollment
Block USB Drives
Registry keys
Lock down display settings
Lock down Control Panel
Remove Shutdown button
Standard Firewall Config
```

MyNewGPO

Data collected on: 11/13/2018 7:06:49 AM [hide all](#)

General [hide](#)

Details [hide](#)

Domain	mydomain.local
Owner	MYDOMAIN\Domain Admins
Created	11/13/2018 5:54:30 AM
Modified	11/13/2018 6:45:18 AM
User Revisions	0 (AD), 0 (SYSVOL)
Computer Revisions	0 (AD), 0 (SYSVOL)
Unique ID	{70C8FC0B-9A4F-40EB-A04C-47E77DFD6CDA}
GPO Status	Enabled

Links [hide](#)

Location	Enforced	Link Status	Path
IT Department	No	Enabled	mydomain.local/IT Department

This list only includes links in the domain of the GPO.

Security Filtering [hide](#)

The settings in this GPO can only apply to the following groups, users, and computers:

Name
MYDOMAIN\Server Administrators

Delegation

MYDOMAIN\jordan on MYDOMAIN\LAPTOP1

file:///C:/RSOP_Reports/Jordan_LAPTOP1.html

Group Policy Results

MYDOMAIN\jordan on MYDOMAIN\LAPTOP1
Data collected on: 11/13/2018 7:20:16 AM

Summary

During last **computer policy** refresh on 11/13/2018 7:04:47 AM

- ✔ No Errors Detected
- ⚠ A fast link was detected [More information...](#)

During last **user policy** refresh on 11/5/2018 6:28:52 AM

- ⚠ A fast link was detected [More information...](#)

Computer Details

General

Computer name: MYDOMAIN\LAPTOP1
 Domain: mydomain.local
 Site: GrandRapids
 Organizational Unit: mydomain.local/Testing GPOs
 Security Group Membership: show

Component Status [hide](#)

Component Name	Status	Time Taken	Last Process Time	Event Log
Group Policy	Success	1 Second(s) 464	11/13/2018 7:04:47 AM	View Log
Infrastructure		Millisecond(s)		

```

Administrator: Windows PowerShell
PS C:\> Get-GPResultantSetOfPolicy -user MyDomain\Jordan -computer LAPTOP1
-ReportType HTML -Path C:\RSOP_Reports\Jordan_LAPTOP1.html

RsopMode       : Logging
Namespace      : \\LAPTOP1\Root\Rsop\NS78D6C634_3547_425D_8B51_12277D0D4B62
LoggingComputer : LAPTOP1
LoggingUser    : MyDomain\Jordan
LoggingMode    : UserAndComputer

PS C:\>
  
```

```
Administrator: Windows PowerShell
PS C:\> Get-GPPermissions -name "MyNewGPO" -all

Trustee      : Server Administrators
TrusteeType  : Group
Permission   : GpoApply
Inherited    : False

Trustee      : Domain Admins
TrusteeType  : Group
Permission   : GpoEditDeleteModifySecurity
Inherited    : False

Trustee      : Enterprise Admins
TrusteeType  : Group
Permission   : GpoEditDeleteModifySecurity
Inherited    : False

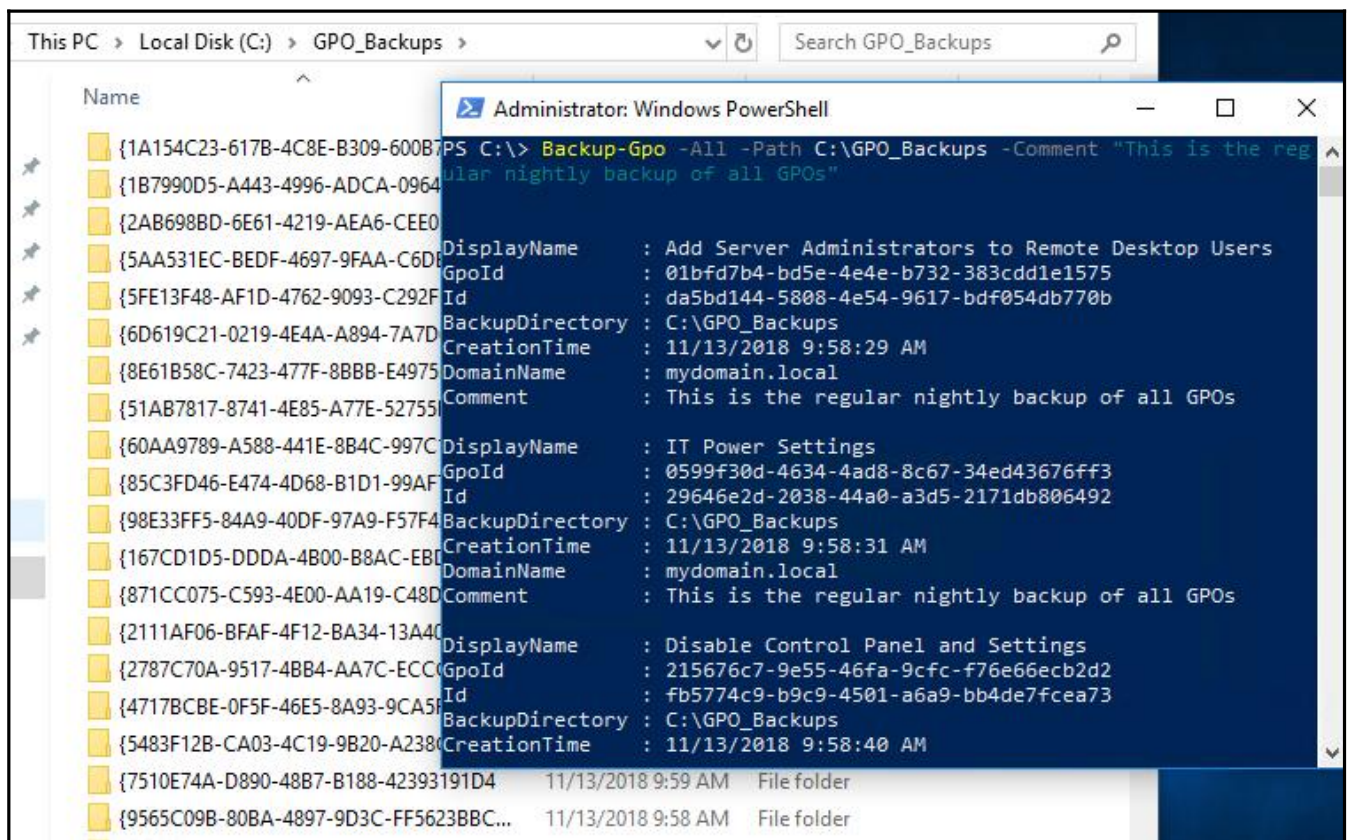
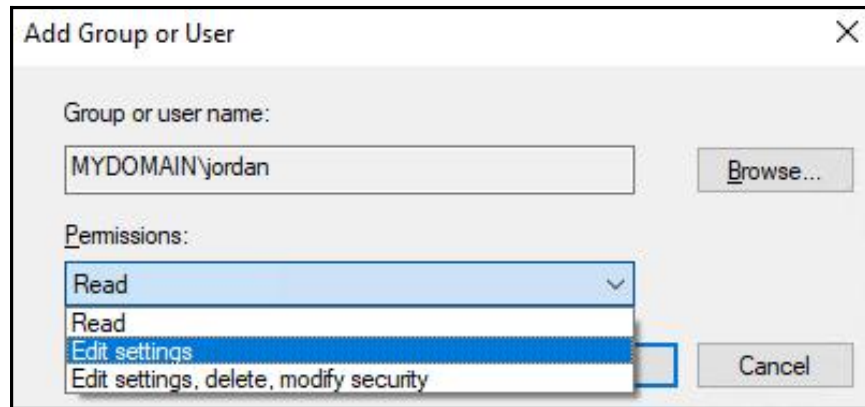
Trustee      : ENTERPRISE DOMAIN CONTROLLERS
TrusteeType  : WellKnownGroup
Permission   : GpoRead
Inherited    : False

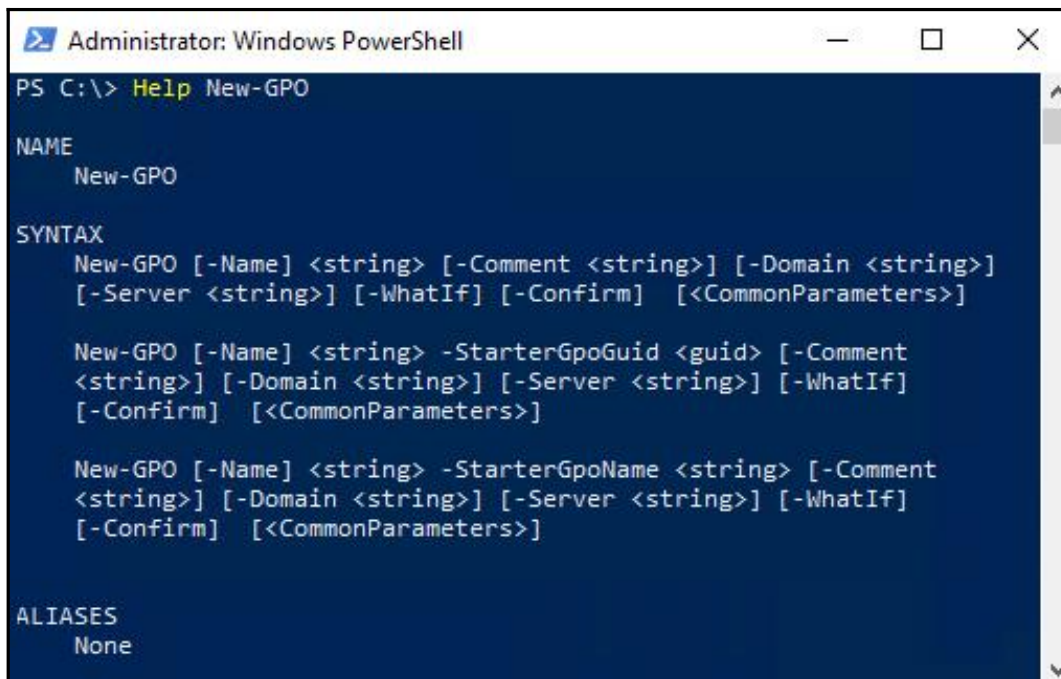
Trustee      : SYSTEM
TrusteeType  : WellKnownGroup
Permission   : GpoEditDeleteModifySecurity
Inherited    : False
```

```
Administrator: Windows PowerShell
PS C:\> Get-GPPermissions -name "Map Network Drives" -TargetType User
-TargetName "Jackson"

Trustee      : Jackson
TrusteeType  : User
Permission   : GpoEdit
Inherited    : False

PS C:\>
```





The image shows a screenshot of a Windows PowerShell window titled "Administrator: Windows PowerShell". The prompt is "PS C:\> Help New-GPO". The output displays the help text for the New-GPO command, including its name, syntax, and aliases.

```
PS C:\> Help New-GPO

NAME
    New-GPO

SYNTAX
    New-GPO [-Name] <string> [-Comment <string>] [-Domain <string>]
    [-Server <string>] [-WhatIf] [-Confirm] [<CommonParameters>]

    New-GPO [-Name] <string> -StarterGpoGuid <guid> [-Comment
    <string>] [-Domain <string>] [-Server <string>] [-WhatIf]
    [-Confirm] [<CommonParameters>]

    New-GPO [-Name] <string> -StarterGpoName <string> [-Comment
    <string>] [-Domain <string>] [-Server <string>] [-WhatIf]
    [-Confirm] [<CommonParameters>]

ALIASES
    None
```