

How to use the Microsoft Security Compliance Manager to measure best practice against a baseline.

This document uses the Microsoft Security Compliance Manager (SCM) 2 version 2.0.20.0 library 1.0.71901 and Microsoft Windows 7 x64. This demo installs the local GPO backup program for import to the Security Compliance Manager. The Security Compliance Manager is used to compare the local Group Policy Object to the selected baseline (best practice).

Preuss

9/29/2011



Recycle Bin



Gpg4win
Document...

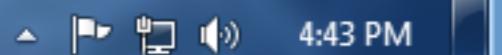


GPA

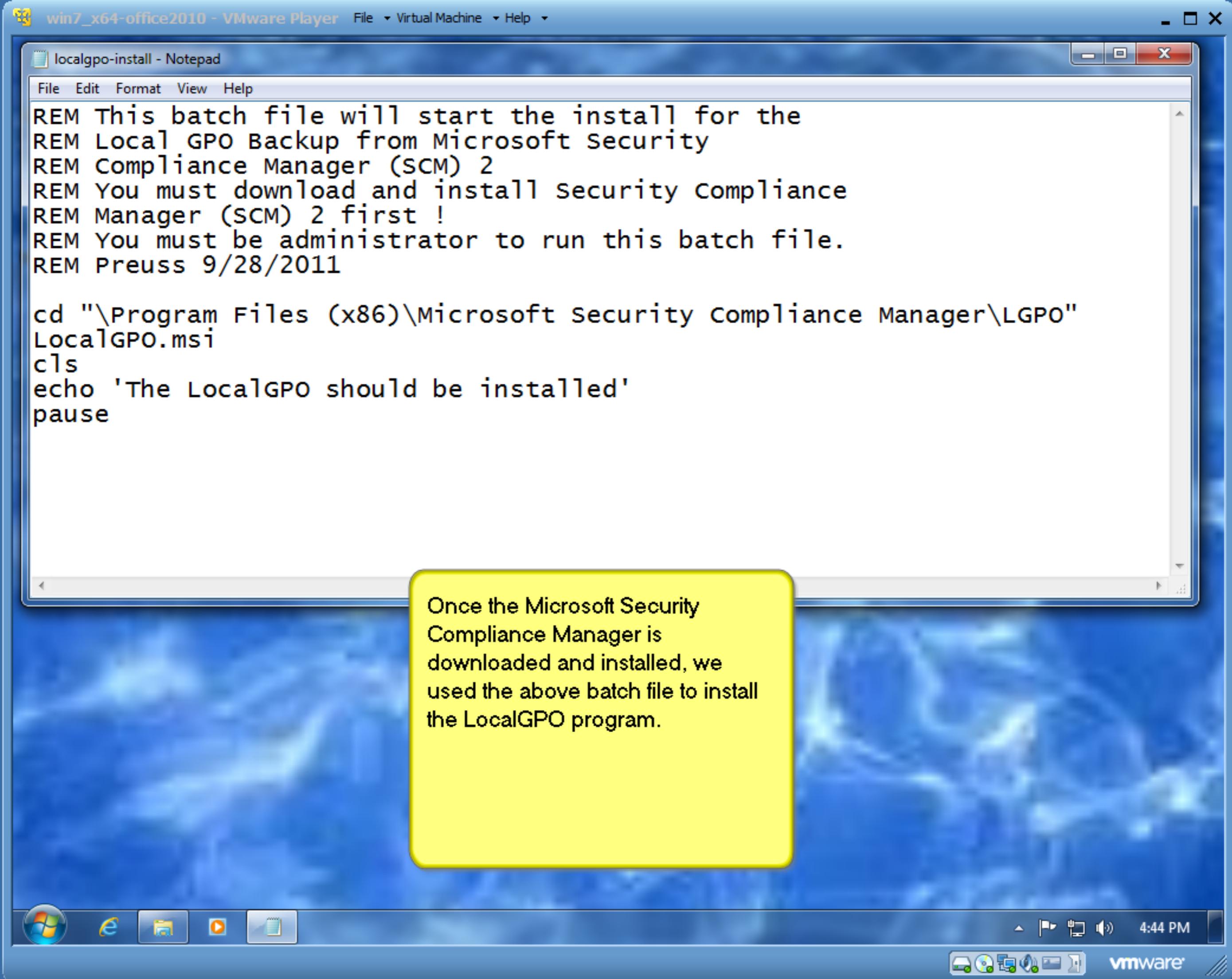


Kleopatra

We need to start Windows 7.



4:43 PM



win7_x64-office2010 - VMware Player File ▾ Virtual Machine ▾ Help ▾

localgpo-backup - Notepad

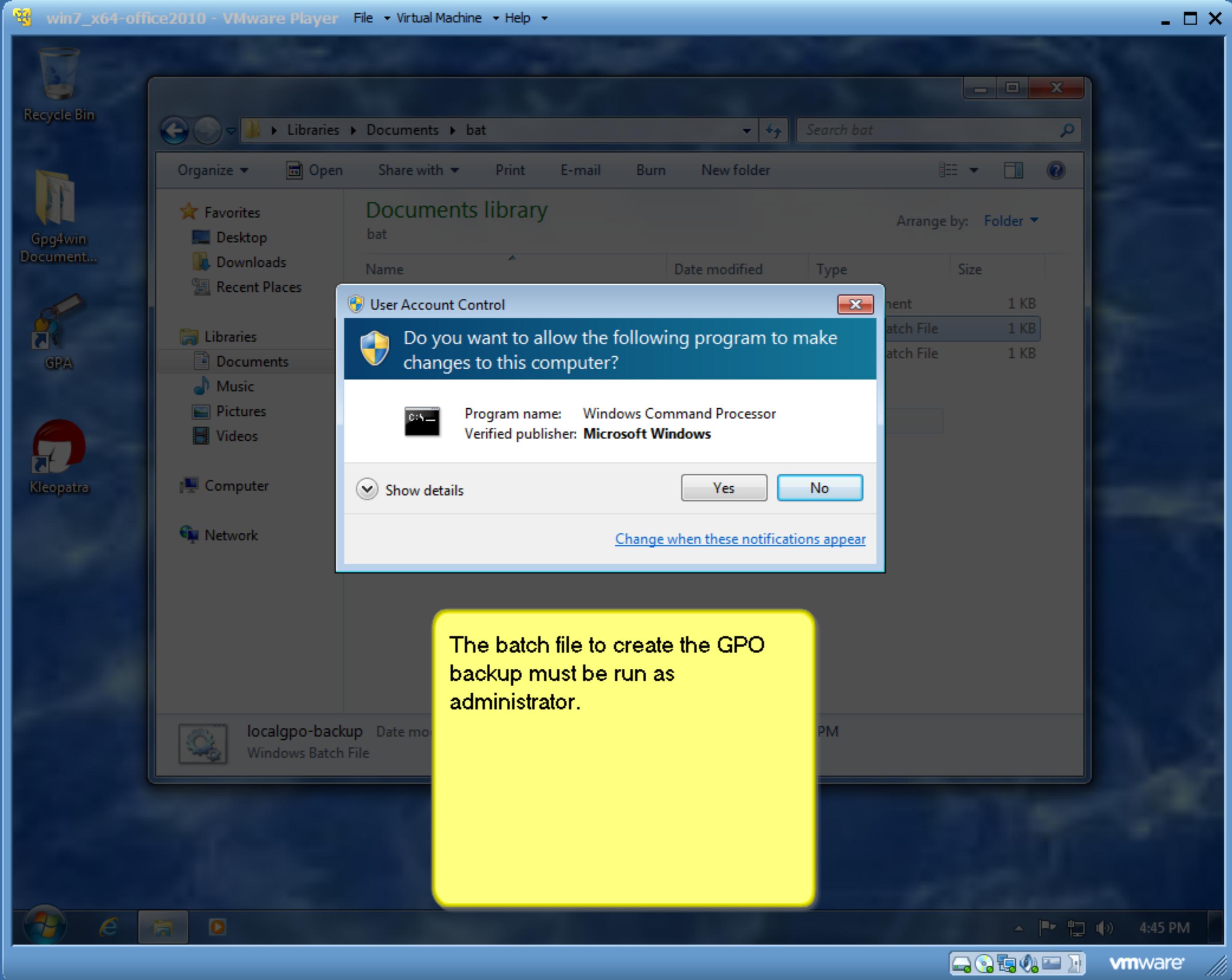
File Edit Format View Help

```
REM This will run the LocalGPO.wsf file to create a
REM GPO backup.
REM The GPO backup may be imported to Security
REM Compliance Manager for comparison
REM Preuss 9/28/2011

cd "\Program Files (x86)\LocalGPO"
cscript LocalGPO.wsf /Path:"%userprofile%\documents" /Export /GPOPack
cls
echo 'The Local GPO backup should be done'
pause
```

The above batch file will backup
the local group policy to the
logon's home
directory\documents. It will be in
the form ready for Security
Compliance Manager.





win7_x64-office2010 - VMware Player File ▾ Virtual Machine ▾ Help ▾

Microsoft Security Compliance Manager

File View Help Global setting search

Custom Baselines
 GPO Import

Microsoft Baselines
 Internet Explorer 8
 Internet Explorer 9
 Microsoft Office 2003
 Microsoft Office 2010
 Windows 7
 Windows Server 2003
 Windows Server 2008
 Windows Server 2008 R2
 Windows Vista SP2
 Windows XP SP3

Other Baselines

**Microsoft®
Security Compliance
Manager (SCM) 2**

Solution Accelerators

Download Updates

Update details	Download Type
<input checked="" type="checkbox"/> Windows Server 2003 SP2 1.0 Wed, 22 Jun 2011 Windows Server 2003 SP2 - Security & Compliance Baseline	Baseline Package
<input checked="" type="checkbox"/> Windows Server 2008 SP2 1.0 Wed, 22 Jun 2011 Windows Server 2008 SP2 - Security & Compliance Baseline	Baseline Package
<input checked="" type="checkbox"/> Windows Server 2008 R2 SP1 1.0 Wed, 22 Jun 2011 Windows Server 2008 R2 SP1 - Security & Compliance Baseline	Baseline Package
<input checked="" type="checkbox"/> Internet Explorer 9 1.0 Wed, 22 Jun 2011 Internet Explorer 9 - Security & Compliance Baseline	Baseline Package

Page ▾ Download Cancel

We start the Microsoft Security Compliance Manager. We begin by downloading the latest baselines from Microsoft.

M 3 Export knowledge

GPO backups
DCM Configuration Packs
SCAP data files
Microsoft Excel workbooks

Setting details

File View Help Global setting search

Import
 GPO Backup (folder)
 SCM (.cab)

Help
 About
 Help Topics
 Release Notes
 Send Feedback
 Privacy Statement

4:45 PM

To direct input to this virtual machine, press Ctrl+G.

vmware

win7_x64-office2010 - VMware Player File ▾ Virtual Machine ▾ Help ▾

Microsoft Security Compliance Manager

File View Help Global setting search

Custom Baselines
 GPO Import
Microsoft Baselines
 Internet Explorer
 Internet Explorer
 Microsoft Office
 Microsoft Office
 Windows 7
 Windows Server
 Windows Server
 Windows Server
 Windows Vista S
 Windows XP SP3
Other Baselines

Import Baselines Wizard

Select package files

This wizard helps you import baselines into the Microsoft Security Compliance Manager tool.

Package
C:\Users\preuss\Documents\Windows-Server-2003-SP2-Security-Compliance-Baseline.cab

Add Remove

Once the packages are downloaded, we add them to the program.

Setting details SCAP data files Microsoft Excel workbooks

Back Next Cancel

Global setting search

Report
Backup (folder)
.cab
Ip
out
Topics
Notes
Feedback
Statement

4:46 PM

win7_x64-office2010 - VMware Player File ▾ Virtual Machine ▾ Help ▾

Microsoft Security Compliance Manager

File View Help Global setting search

Custom Baselines
 GPO Import
Microsoft Baselines
 Internet Explorer
 Internet Explorer
 Microsoft Office
 Microsoft Office
 Windows 7
 Windows Server
 Windows Server
 Windows Server
 Windows Server
 Windows Vista S
 Windows XP SP3
Other Baselines

Import Baselines Wizard

Baseline details

This wizard helps you import baselines into the Microsoft Security Compliance Manager tool.

Select package files

- Windows-Server-2003-SP2-Security-Compliance-Baseline.cab
 - WS2003SP2 Baseline Attachments
 - WS2003SP2 Certificate Services Server Security Compliance
 - WS2003SP2 DHCP Server Security Compliance
 - WS2003SP2 Domain Controller Security Compliance
 - WS2003SP2 Domain Security Compliance
 - WS2003SP2 File Server Security Compliance
 - WS2003SP2 Internet Authentication Services Security Compliance
 - WS2003SP2 Member Server Security Compliance
 - WS2003SP2 Print Server Security Compliance
 - WS2003SP2 Web Server Security Compliance

Baseline details

Results

Description:
This baseline includes the attachments and guides for Windows Server 2003 SP2.

We selected import at this screen.

Microsoft

ps:

Name	Description
SettingGroup	

modifiable copies of each baseline to be imported.

Back Import Cancel

SCAP data files

Microsoft Excel workbooks

Setting details

4:47 PM

vmware

win7_x64-office2010 - VMware Player File ▾ Virtual Machine ▾ Help ▾

Microsoft Security Compliance Manager

File View Help Global setting search

Custom Baselines
 GPO Import

Microsoft Baselines
 Internet Explorer
 Internet Explorer
 Microsoft Office
 Microsoft Office
 Windows 7
 Windows Server
 Windows Server
 Windows Server
 Windows Vista S
 Windows XP SP3

Other Baselines

Import Baselines Wizard

Results

This wizard helps you import baselines into the Microsoft Security Compliance Manager tool.

Select package files
Baseline details
Results

Windows-Server-2003-SP2-Security-Compliance-Baseline.cab
WS2003SP2 Baseline Attachments was imported successfully.
'WS2003SP2 Certificate Services Server Security Compliance' could not be imported. (The baseline already exists.)
'WS2003SP2 DHCP Server Security Compliance' could not be imported. (The baseline already exists.)
'WS2003SP2 Domain Controller Security Compliance' could not be imported. (The baseline already exists.)
'WS2003SP2 Domain Security Compliance' could not be imported. (The baseline already exists.)
'WS2003SP2 File Server Security Compliance' could not be imported. (The baseline already exists.)
'WS2003SP2 Internet Authentication Services Security Compliance' could not be imported. (The baseline already exists.)
'WS2003SP2 Member Server Security Compliance' could not be imported. (The baseline already exists.)
'WS2003SP2 Print Server Security Compliance' could not be imported. (The baseline already exists.)
'WS2003SP2 Web Server Security Compliance' could not be imported. (The baseline already exists.)

Windows-Server-2008-SP2-Security-Compliance-Baseline.cab
'WS2008SP2 AD Certificate Services Server Security Compliance' could not be imported. (The baseline already exists.)
WS2008SP2 Baseline Attachments was imported successfully.
'WS2008SP2 DHCP Server Security Compliance' could not be imported. (The baseline already exists.)
'WS2008SP2 DNS Server Security Compliance' could not be imported. (The baseline already exists.)
'WS2008SP2 Domain Controller Security Compliance' could not be imported. (The baseline already exists.)
'WS2008SP2 Domain Security Compliance' could not be imported. (The baseline already exists.)
'WS2008SP2 File Server Security Compliance' could not be imported. (The baseline already exists.)
'WS2008SP2 Hyper-V Security Compliance' could not be imported. (The baseline already exists.)
'WS2008SP2 Member Server Security Compliance' could not be imported. (The baseline already exists.)
'WS2008SP2 Network Access Services Server Security Compliance' could not be imported. (The baseline already exists.)
'WS2008SP2 Print Server Security Compliance' could not be imported. (The baseline already exists.)
'WS2008SP2 Terminal Services Security Compliance' could not be imported. (The baseline already exists.)

Back Import Finish

SCAP data files
Microsoft Excel workbooks

File View Help Global setting search

Import
Backup (folder)
.cab
Topics
Notes
Feedback
Privacy Statement

We selected finish at this screen.

win7_x64-office2010 - VMware Player File Virtual Machine Help

Microsoft Security Compliance Manager

File View Help Global setting search

Custom Baselines
GPO Import
Attachments \ Gu
LocalGPO-01 0.0

Microsoft Baselines
Internet Explorer 8
Internet Explorer 9
Microsoft Office 2003
Microsoft Office 2010
Windows 7
Windows Server 2003
Windows Server 2008
Windows Server 2008 R2
Windows Vista SP2
Windows XP SP3

Other Baselines

LocalGPO-01 0.0 166 Setting(s)

Advanced View

Name

Import
[GPO Backup \(folder\)](#)
[SCM \(.cab\)](#)

Export
[Excel \(.xlsm\)](#)
[GPO Backup \(folder\)](#)
[SCAP v1.0 \(.cab\)](#)
[SCCM DCM 2007 \(.cab\)](#)
[SCM \(.cab\)](#)

Baseline
[Associate](#)
[Compare / Merge](#)
[Delete](#)
[Duplicate](#)
[Lock](#)
[Properties](#)

Setting
[Add](#)
[Move](#)

Setting Group
[Add](#)
[Delete](#)
[Properties](#)

Help
[About](#)
[Help Topics](#)
[Release Notes](#)
[Send Feedback](#)
[Privacy Statement](#)

We selected Custom Baselines on the left. We selected GPO Import. We selected LocalGPO-01 0.0 (this is our GPO backup).

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win7_x64-office2010 - VMware Player File ▾ Virtual Machine ▾ Help ▾

Microsoft Security Compliance Manager

File View Help Global setting search

Custom Baselines GPO Import Attachments \ Gu LocalGPO-01 0.0

Microsoft Baselines Internet Explorer 8 Internet Explorer 9 Microsoft Office 200 Microsoft Office 2010 Windows 7 Windows Server 200 Windows Server 2000 Windows Server 2008 Windows Vista SP2 Windows XP SP3 Other Baselines

LocalGPO-01 0.0 167 Setting(s)

Advanced View

Name	Default	Microsoft	Customized	Severity	Path
Additional Settings 1 Setting(s)					
RequireLogonToChangePassword 0				None	System Access
Computer Configuration\Windows Settings\Security Settings\Account Policies\Account Lockout Policy 1 Setting(s)					
Account lockout threshold	0			Critical	Computer Configuration\Windows Settings\Security Settings\Account Policies\Account Lockout Policy
Computer Configuration\Windows Settings\Security Settings\Account Policies\Password Policy 6 Setting(s)					
Minimum password age	0			Critical	Computer Configuration\Windows Settings\Security Settings\Account Policies\Password Policy
Maximum password age	42			Critical	Computer Configuration\Windows Settings\Security Settings\Account Policies\Password Policy
Minimum password length					
Password must meet complexity requirements					
Enforce password history					
Store passwords using reversible encryption					
Computer Configuration\Windows Settings\Security Settings\Audit Policy 10 Setting(s)					
Audit Policy: Account Logon: Other Applications					
Audit Policy: Account Logon: Kerberos					
Audit Policy: Account Logon: Credential Validation					
Audit Policy: Account Logon: Kerberos					
Computer Configuration\Windows Settings\Security Settings\Audit Policy 10 Setting(s)					
Audit Policy: Account Management: Create accounts				No Auditing	Computer Configuration\Windows Settings\Security Settings\Audit Policy
Audit Policy: Account Management: Delete accounts				No Auditing	Computer Configuration\Windows Settings\Security Settings\Audit Policy
Audit Policy: Account Management: Modify accounts				No Auditing	Computer Configuration\Windows Settings\Security Settings\Audit Policy
Audit Policy: Account Management: Log on to the system				Success	Computer Configuration\Windows Settings\Security Settings\Audit Policy
Audit Policy: Account Management: Read accounts				No Auditing	Computer Configuration\Windows Settings\Security Settings\Audit Policy
Audit Policy: Account Management: Write accounts				Success	Computer Configuration\Windows Settings\Security Settings\Audit Policy
Computer Configuration\Windows Settings\Security Settings\Advanced Audit Policy Configuration\Audit Policies 1 Setting(s)					
Advanced View					

Import GPO Backup (folder) SCM (.cab)

Export Excel (.xlsm) GPO Backup (folder) SCAP v1.0 (.cab) SCCM DCM 2007 (.cab) SCM (.cab)

Baseline Associate Compare / Merge Delete Duplicate Lock Properties

Setting Add Move

Setting Group Add Delete Properties

Help About Help Topics Release Notes Send Feedback Privacy Statement

To direct input to this virtual machine, press Ctrl+G.

4:47 PM

win7_x64-office2010 - VMware Player File ▾ Virtual Machine ▾ Help ▾

Microsoft Security Compliance Manager

File View Help Global setting search

Custom Baselines

- GPO Import
- Attachments \ Gu
- LocalGPO-01 0.0

Microsoft Baselines

- Internet Explorer 8
- Internet Explorer 9
- Microsoft Office 2007
- Microsoft Office 2010
- Windows 7
- Windows Server 2008
- Windows Server 2008 R2
- Windows Server 2008 SP2
- Windows Vista SP2
- Windows XP SP3

Other Baselines

LocalGPO-01

Advanced

Name

- Additional
- RequireLogon
- Computer
- Account lockout
- Computer
- Minimum password length
- Maximum password age
- Minimum password age
- Password must be changed
- Enforce password history
- Start password

Compare Baselines

Select a baseline from the following list to compare it with 'LocalGPO-01' baseline.

- Custom Baselines
 - GPO Import
- Microsoft Baselines
 - Internet Explorer 8
 - Internet Explorer 9
 - Microsoft Office 2007 SP2
 - Microsoft Office 2010
 - Windows 7
 - Win7-Bitlocker-EC 1.0
 - Win7-Bitlocker-SSLF 1.0
 - Win7-EC-Desktop 1.0
 - Win7-EC-Domain 1.0
 - Win7-EC-Laptop 1.0
 - Win7-EC-User 1.0
 - Win7-SSLF-Desktop 1.0
 - Win7-SSLF-Domain 1.0
 - Win7-SSLF-Laptop 1.0**
 - Win7-SSLF-User 1.0
 - Windows Server 2003 SP2
 - Windows Server 2008 R2 SP1
 - Windows Server 2008 SP2
 - Windows Vista SP2
 - Windows XP SP3

Other Baselines

OK Cancel

We select the baseline we wish to compare our Group Policy.

Audit Policy: A

Audit Policy: A

Computer Configuration\Windows Settings\Security Settings\Advanced Audit Policy Configuration\Audit Policies

File ▾ Virtual Machine ▾ Help ▾

Import

 - GPO Backup (folder)
 - SCM (.cab)

Export

 - Excel (.xlsm)
 - GPO Backup (folder)
 - SCAP v1.0 (.cab)
 - SCCM DCM 2007 (.cab)
 - SCM (.cab)

Baseline

 - Associate
 - Compare / Merge
 - Delete
 - Duplicate
 - Lock
 - Properties

Setting

 - Add
 - Move

Setting Group

 - Add
 - Delete
 - Properties

Help

 - About
 - Help Topics
 - Release Notes
 - Send Feedback
 - Privacy Statement

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Compare Baselines

Summary

Baseline A: Local GPO-01

Baseline B: Win7-SSL E-Lantop 1

Total unique settings compared: 22

Total settings in common: 10

Total settings not in common: 13

Settings that differ (104)

Name	Baseline A	Baseline B	UI Path	
Network security: Force logoff when logon hours exp	Disabled	NotDefined	Computer Configuration\Windows Settings\Security	
Accounts: Rename administrator account	Administrator	NotDefined	Computer Configuration\Windows Settings\Security	
Accounts: Rename guest account	Guest	NotDefined	Computer Configuration\Windows Settings\Security	
Accounts: Administrator account status	Severity:Critical	Severity:None	Computer Configuration\Windows Settings\Security	
Accounts: Guest account status	Severity:Critical	Severity:None	Computer Configuration\Windows Settings\Security	
Recovery console: Allow automatic administrative log	Severity:Critical	Severity:None	Computer Configuration\Windows Settings\Security	
Recovery console: Allow floppy copy and access to a	Severity:Importa	Severity:None	Computer Configuration\Windows Settings\Security	
Interactive logon: Number of previous logons to calc	10	2	Computer Configuration\Windows Settings\Security	

Settings that match (0)

This is the result of the comparison. We do not want to upload a screen shot of each setting. We select the Export to Excel button at the bottom right.

This is the result of the comparison. We do not want to upload a screen shot of each setting. We select the Export to Excel button at the bottom right.

Settings only in Baseline A (10)

Settings only in Baseline B (112)

[Export to Excel](#)

Close

Computer Configuration\Windows Settings\Security Settings\Advanced Audit Policy Configuration\Audit Policies

[Send Feedback](#)

Privacy Statement

File View Help

Global setting search

- Compare Baselines

Summary

Baseline A: LocalGPO-01 0.0

Baseline B: Win7-SSLF-Laptop 1

Total unique settings compared: 104

Total settings in common: 104

Total settings not in common: 0

Settings that differ (104)

Name
Network security: Fore
Accounts: Rename ad
Accounts: Rename gu

Settings that differ (104)

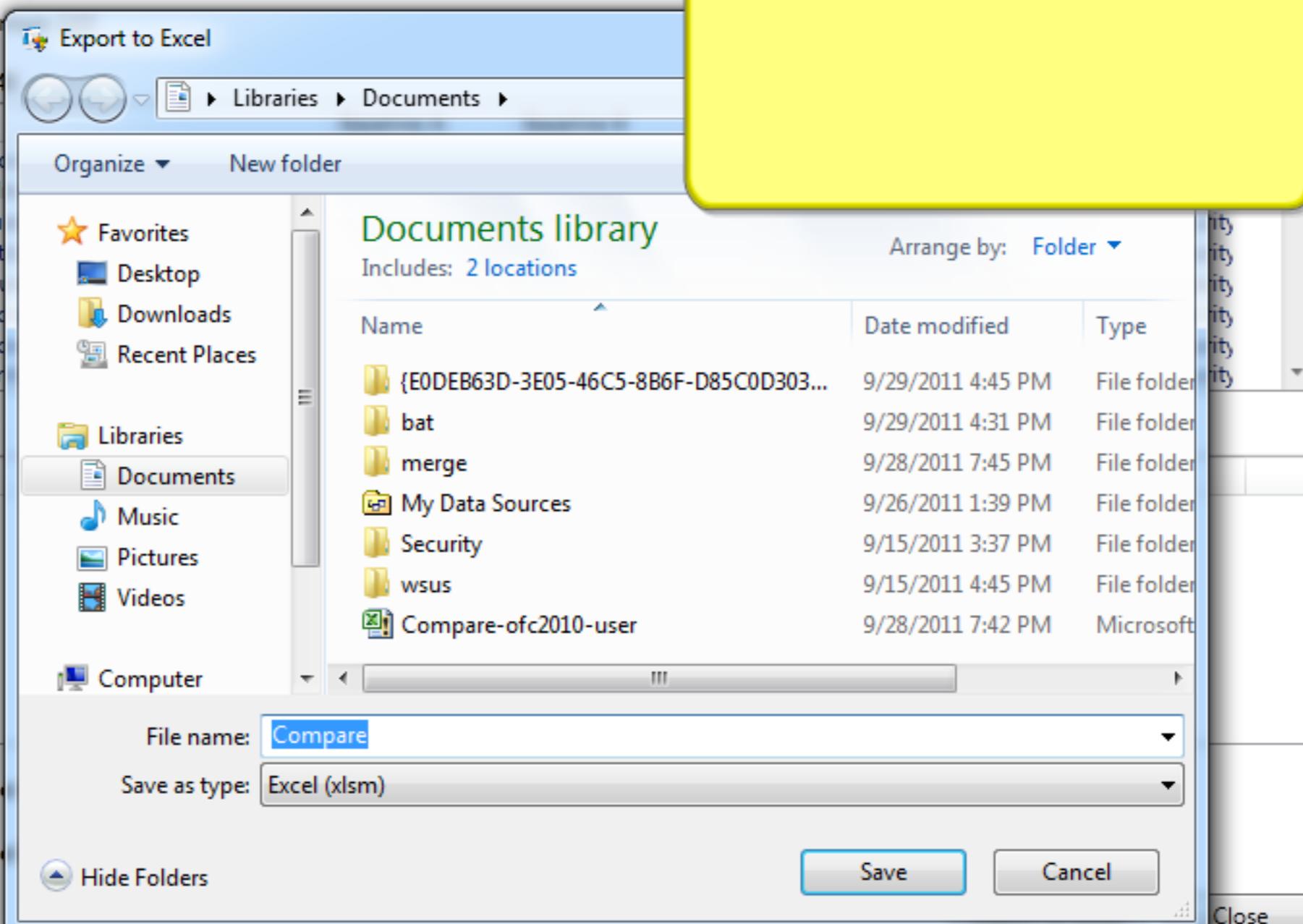
- Name
- Network security: For
- Accounts: Rename ad
- Accounts: Rename gu
- Accounts: Administrat
- Accounts: Guest accou
- Recovery console: Allc
- Recovery console: Allc
- Interactive logon: Nur

Settings that match (0)

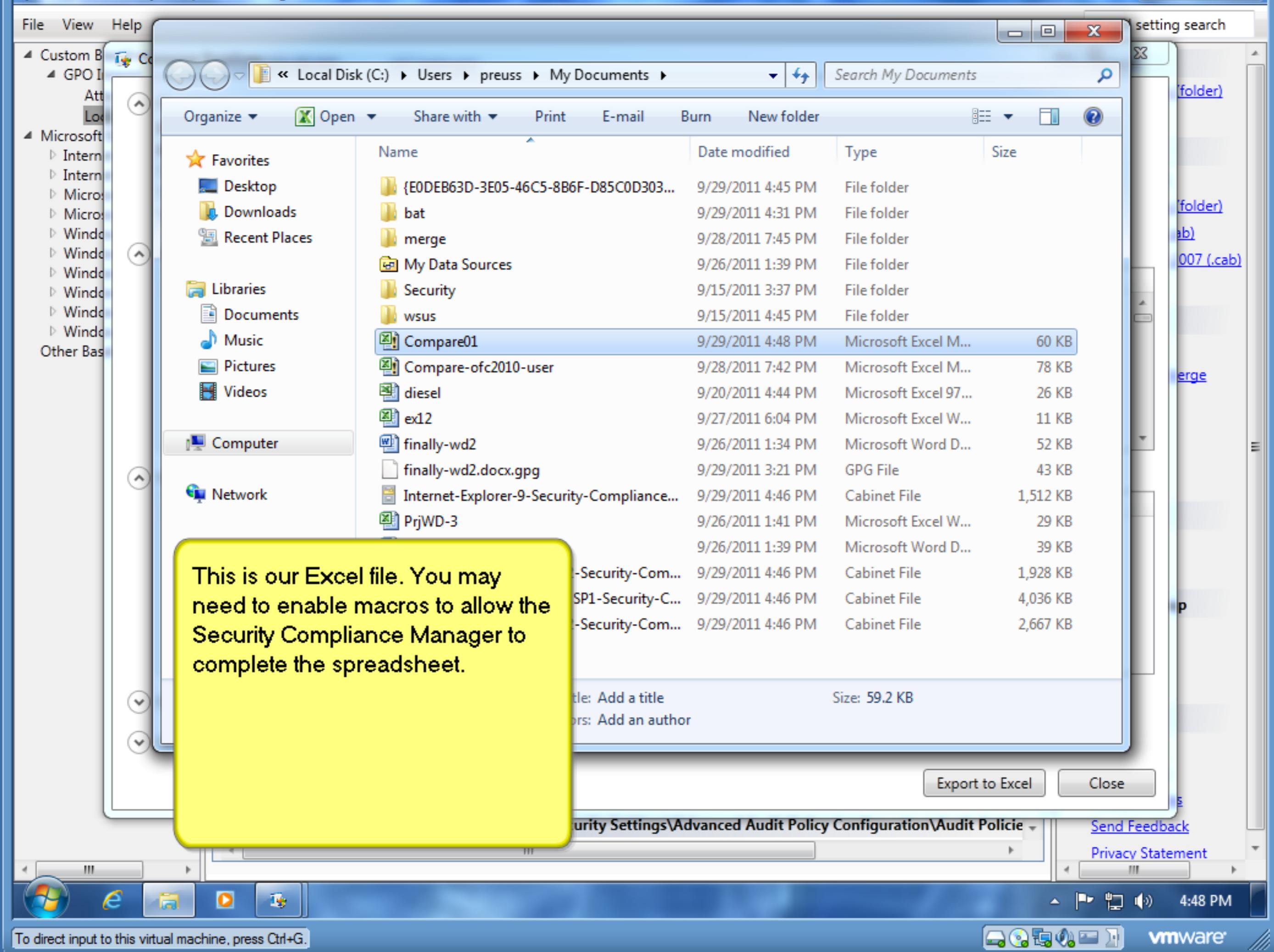
Name

▼ Settings only in Baseline

▼ Settings only in Baseline



We need to name our Excel file.



win7_x64-office2010 - VMware Player File Virtual Machine Help

Compare01 - Microsoft Excel Table Tools

File Home Insert Page Layout Formulas Data Review View Design

Paste Font Alignment Number Styles Cells Editing

A2 Network security: Force logoff when logon hours expire

	A	B	C	D
1	Name	Option	LocalGPO-01 0.0	Win7-SSLF-Laptop 1.0
2	Network security: Force logoff when logon hours expire	Disabled		NotDefined
3	Accounts: Rename administrator account	Administrator		NotDefined
4	Accounts: Rename guest account			NotDefined
5	Interactive logon: Number of previous logons to cache (in case domain controller is not available)	2		
6	Interactive logon: Prompt user to change password before expiration	14		
7	Interactive logon: Smart card removal behavior	On		LockWorkstation
8	User Account Control: Behavior of the elevation prompt for administrators in Admin Approval Mode	forconsentfornon- wsbinaries		Promptforcredentials
9	User Account Control: Behavior of the elevation prompt for standard users		Promptforcredentials	Automaticallydenyelevation quests
10	Interactive logon: Do not display last user name	Disabled		Enabled
11	User Account Control: Admin Approval Mode for the Built-in Administrator account	Disabled		Enabled
12	Interactive logon: Message title for users attempting to log on			NotDefined
	Interactive logon: Message text for users			NotDefined

Differ Match OnlyInA OnlyInB Copyright

Ready 100% 4:48 PM

Windows Internet Explorer VMware

This is the spreadsheet showing our Group Policy settings under LocalGPO and the Best Practices under Win7-SSLF.