Federal Desktop Core Configuration Windows Vista Baseline

For the Federal Agencies



August 2007 fdcc@nist.gov

National Institute of Standards & Technology
Information Technology Laboratory
Computer Security Division

Outline

- Federal Desktop Core Configuration (FDCC)
- OMB memoranda
- In support of the OMB mandate
 - NIST technical resources
 - Windows Vista FDCC baseline

OMB Deep Dive Working Group

Acknowledgement

- DHS
- DISA
- NSA
- NIST
- Microsoft
- OMB
- USAF
- Vendors

Federal Desktop Core Configuration FDCC

- Common core Microsoft Windows configuration driven by OMB
- Based on the DISA, NSA, NIST, USAF, and Microsoft existing guidelines for securing Windows XP and Vista
- Leverage USAF Standard Configuration
 Desktop initiative
 - Deployed and tested across half a million Windows XP systems
- Include security and other settings
 - Internet Explorer 7

Disclaimer

Any mention of commercial products or reference to commercial organizations is for information only; it does not imply recommendation or endorsement by NIST nor does it imply that the products mentioned are necessarily the best available for the purpose.



Implementation of Commonly Accepted Security Configurations for Windows Operating Systems



OFFICE OF THE PRESIDENT
OFFICE OF MANAGEMENT AND BUDGET
WASHINGTON, D.C. 20503

March 22, 2007

M-07-11

MEMORANDUM FOR THE HEADS OF DEPARTMENTS AND AGENCIES

FROM: Clay Johnson

Deputy Director for Management

SUBJECT: Implementation of Commonly Accepted Security Configurations for

Windows Operating Systems

To improve information security and reduce overall IT operating costs, agencies who have Windows XP TM deployed and plan to upgrade to the Vista TM operating system, are directed to adopt the security configurations developed by the National Institute of Standards and Technology (NIST), the Department of Defense (DoD) and the Department of Homeland Security (DHS).

The recent release of the VistaTM operating system provides a unique opportunity for agencies to deploy secure configurations for the first time when an operating system is released. Therefore, it is critical for all Federal agencies to put in place the proper governance structure with appropriate policies to ensure a very small number of secure configurations are allowed to be used.

DoD has worked with NIST and DHS to reach a consensus agreement on secure configurations of the VistaTM operating system, and to deploy standard secure desk tops for Windows XPTM. Information is more secure, overall network performance is improved, and overall operating costs are lower.

Agencies with these operating systems and/or plans to upgrade to these operating systems must adopt these standard security configurations by February 1, 2008. Agencies are requested to submit their draft implementation plans by May 1, 2007 at fisma@omb.eop.gov. With your endorsement we will work with your CIOs on this effort to improve our security for government information. If you have questions about this requirement, please contact Karen Evans, Administrator, E-Government and Information Technology at (202)395-1181 or at fisma@omb.eop.gov.

Implementation of Commonly Accepted Security Configurations for Windows Operating Systems

- "DoD has worked with NIST and DHS to reach a consensus agreement on secure configurations of the VistaTM operating system, and to deploy standard secure desktops for Windows XPTM. "
- "Agencies with these operating systems and/or plans to upgrade to these operating systems must adopt these standard security configurations by February 1, 2008."

Ensuring New Acquisitions Include Common Security Configurations



EXECUTIVE OFFICE OF THE PRESIDENT OFFICE OF MANAGEMENT AND BUDGET WARRINGTON, D.C. 20503

June 1, 2007

M-07-18

MEMORANDUM FOR CHIEF INFORMATION OFFICERS

CHIEF ACQUISITION OFFICERS

CHIEF ACQUISITION OFFICER

FROM: Karen S. Evans

Office of E-Government and Information Technology

Paul A. Denett Faul C. Wenew

Administrator for Federal Procurement Policy

SUBJECT: Ensuring New Acquisitions Include Common Security Configurations

The Office of Management and Budget recently issued policy memorandum M-07-11, "Implementation of Commonly Accepted Security Configurations for Windows Operating Systems," which stated: "agencies with these operating systems [Windows XP and VISTA] and/or plans to upgrade to these operating systems must adopt these standard security configurations by February 1, 2008."

This memorandum provides recommended language for your agency to use in solicitations to ensure new acquisitions include these common security configurations and information technology providers certify their products operate effectively using these configurations. Your agency may determine other specifications and/or language is necessary:

- "a) The provider of information technology shall certify applications are fully functional and operate correctly as intended on systems using the Federal Desktop Core Configuration (FDCC). This includes Internet Explorer 7 configured to operate on Windows XP and Vista (in Protected Mode on Vista). For the Windows XP settings, see: http://csrc.nist.gov/itsee/guidance-WinXP.html, and for the Windows Vista settings, see: http://csrc.nist.gov/itsee/guidance-wista.html.
- b) The standard installation, operation, maintenance, update, and/or patching of software shall not alter the configuration settings from the approved FDCC configuration. The information technology should also use the Windows Installer Service for installation to the default "program files" directory and should be able to silently install and uninstall.
- c) Applications designed for normal end users shall run in the standard user context without elevated system administration privileges."

2

A number of concurrent activities will further assist your agency's adoption of common security configurations. The National Institute of Standards and Technology (NIST) and the Department of Homeland Security continue to work with Microsoft to establish a virtual machine to provide agencies and information technology providers' access to Windows XP and VISTA images. The images will be pre-configured with the recommended security settings for test and evaluation purposes to help certify applications operate correctly.

Additionally, Part 39 of the Federal Acquisition Regulation (FAR), which requires agencies to include appropriate information technology security policies and requirements when acquiring information technology, will be revised to incorporate requirements for using common security configurations, as appropriate.

More information on how to access the virtual machine and progress to update the FAR will be forthcoming. The Chief Information Officers Council will facilitate the exchange of best practices and lessons learned, and NIST maintains responses to frequently asked questions at: html#FAQ and

http://csrc nist_gov/itsec/guidance_vista.html#FAQ. Questions concerning agency adoption of the Windows XP and VISTA configurations can be sent to fisma@omb.eop.gov. If you have any questions about this memorandum, please contact Daniel Costello at 202-395-7857.

Ensuring New Acquisitions Include Common Security Configurations

- "The provider of information technology shall certify applications are fully functional and operate correctly as intended on systems using the Federal Desktop Core Configuration (FDCC). This includes Internet Explorer 7 configured to operate on Windows XP and Vista (in Protected Mode on Vista)."
- "Applications designed for normal end users shall run in the standard user context without elevated system administration privileges."
- "The National Institute of Standards and Technology (NIST) and the Department of Homeland Security continue to work with Microsoft to establish a virtual machine to provide agencies and information technology providers' access to Windows XP and VISTA images. The images will be pre-configured with the recommended security settings for test and evaluation purposes to help certify applications operate correctly."

OMB Memo for CIOs

Establishment of Windows XP and Vista Virtual Machine and Procedures for Adopting the Federal Desktop Core Configurations

July 31, 2007

MEMORANDUM FOR CHIEF INFORMATION OFFICERS

FROM: Karen Evans

Administrator, Office of E-Government and Information Technology

SUBJECT: Establishment of Windows XP and VISTA Virtual Machine and Procedures for

Adopting the Federal Desktop Core Configurations

The Office of Management and Budget recently issued policy memorandum M-07-11, "Implementation of Commonly Accepted Security Configurations for Windows Operating Systems," which stated: "agencies with these operating systems [Windows XP and VISTA] and/or plans to upgrade to these operating systems must adopt these standard security configurations by February 1, 2008."

As we noted in the June 1, 2007 follow-up policy memorandum M-07-18, "Ensuring New Acquisitions Include Common Security Configurations," a virtual machine would be established "to provide agencies and information technology providers' access to Windows XP and VISTA images." The National Institute of Standards and Technology (NIST), Microsoft, the Department of Defense, and the Department of Homeland Security have now established a website hosting the virtual machine images, which can be found at: http://csrc.nist.gov/fdcc. The website also includes frequently asked questions and other technical information for adopting the Federal Desktop Core Configurations (FDCC).

Your agency can now acquire information technology products that are self-asserted by information technology providers as compliant with the Windows XP & VISTA FDCC, and use NIST's Security Content Automation Protocol (S-CAP) to help evaluate providers' self-assertions. Information technology providers must use S-CAP validated tools, as they become available, to certify their products do not alter these configurations, and agencies must use these tools when monitoring use of these configurations. Related resources (e.g., group policy objects) are also provided to help facilitate agency adoption of the FDCC.

For additional information about this initiative, please call 1-800-FED-INFO. Additional information about the S-CAP can be found at: http://nvd.nist.gov/scap.cfm.

OMB Announcement

OMB Announces Establishment of New Website to Assist Agency Implementation of Secure Configurations



EXECUTIVE OFFICE OF THE PRESIDENT
OFFICE OF MANAGEMENT AND BUDGET
WASHINGTON, D.C. 20503

FOR IMMEDIATE RELEASE

July 31, 2007

Contact: OMB Communications, 202-395-7254

OMB ANNOUNCES ESTABLISHMENT OF NEW WEBSITE TO ASSIST AGENCY IMPLEMENTATION OF SECURE CONFIGURATIONS

WASHINGTON -- The Office of Management and Budget (OMB) amounced today the establishment of a Web site to assist departments and agencies with the implementation of secure configurations to improve the security of their information technology investments.

The new Web site established today hosts "virtual machine images" - tools for the agencies to simulate what will happen when they transition from their current operating environment to the secure Windows XP and VISTA operating systems using these new configurations. Additionally, these images will allow agencies to see what happens to their current applications when operating with the secure operating systems of Windows XP and VISTA. Earlier this year, OMB requested agencies using or planning on upgrading to Windows XP and VISTA to adopt common security configurations. Doing so will improve IT security while reducing operating costs, for example, by managing risk when using file sharing technology. As part of this effort, OMB informed agencies that a new resource -- virtual machine images -- would be established to assist agency planning efforts.

The images contain pre-configured security settings for agencies to use when testing and evaluating their applications to ensure they function effectively and securely when they migrate to these new operating systems. The images were established through a collaborative effort with Microsoft and the National Institute of Standards and Technology (NIST), the Department of Defense, and the Department of Homeland Security.

"This resource facilitates agencies' efforts to implement common security configurations which will boost government's information security, improve system performance, and decrease operating costs," said Karen Evans, Administrator of OMB's Office of E-Government and Information Technology. "We encourage new collaborative efforts, such as this one, with both public and private sector partners to support agency adoption of the Microsoft XP and VISTA configurations."

In addition, NIST's National Checklist Program is working with a number of information technology providers on standardizing security settings for a wide variety of products and environments. NIST maintains over 120 common security configuration guides used by agencies.

Resources

• OMB Memoranda

http://www.whitehouse.gov/omb/memoranda/

 NIST FAQs about Implementation of Commonly Accepted Security Configurations for Windows Operating Systems Memo

http://checklists.nist.gov/faq-common_security_configurations.html

In Support of the OMB Mandate Vista Federal Desktop Core Configuration

FDCC Technical Resources

- NIST FDCC home page http://csrc.nist.gov/fdcc
- Frequently asked questions
- Draft security settings documentation for Windows XP and Vista
- Microsoft Virtual PC virtual hard disks (VHDs)
- Draft Group policy objects
- Draft security content automation protocol (SCAP) content

http://csrc.nist.gov/fdcc

Information Technology Laboratory - Computer Security Division
Computer Security Resource Center - CSRC

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Publications

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FDCC

- Home
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- Contact

NIST Resources

- NIST Security
 Configuration
 Checklist for IT

 Products
- Security Content
 - Automation Protocol
- Guidance for
 Securing Microsoft
 Windows Vista
- ◆ Guidance for Securing Microsoft Windows XP Home Edition: A NIST Security Configuration Checklist
- ◆ Guidance for Securing Microsoft Windows XP Systems for IT Professionals: A NIST Security Configuration Checklist
- NIST Systems
 Administration
 Guidance for
 Windows 2000
 Professional
- FISMA Implementation Project

Federal Desktop Core Configuration FDCC

- In support of the OMB Memoranda
- NIST Frequently Asked Questions FAQs 2007-07-31
- Download the FDCC documentation, group policy objects,
 Microsoft virtual hard disks, and security content automation
 protocol (SCAP) content 2007-07-31

In Support of the OMB Memoranda

Under the direction of OMB and in collaboration with DHS, DISA, NSA, USAF, and Microsoft, NIST has provided the following resources to help agencies test, implement, and deploy the Microsoft Windows XP and Vista Federal Desktop Core Configuration (FDCC) baseline.

- · Technical FAQs for FDCC baseline
- FDCC draft documentation, group policy objects (GPOs), Microsoft virtual hard disks (VHDs), and security content automation protocol (SCAP) content

The VHDs and GPOs should only be used for testing purposes and should not be deployed in an operational environment without extensive testing.

Comments and questions may be addressed to fdcc@nist.gov.

Frequently Asked Questions

Technical FAQs

This frequently asked questions (FAO) document addresses subjects associated with the March 2007 OMB-mandated Federal Desktop Core Configuration (FDCC). Topics include the FDCC, laboratory testing of the FDCC, agency testing of the FDCC, use of the SCAP to evaluate computers for FDCC compliance, deploying the FDCC, and reporting deviations to the FDCC. This FAQ should be considered an addition to the Managing Security Risks Using Common Configurations FAO.

Federal Desktop Core Configuration

1. What is the Federal Desktop Core Configuration (FDCC)?

The Federal Desktop Core Configuration (FDCC) is an OMB-mandated security configuration. The FD operating system soft Desktop Core Configu 2007 memorandum fr a corresponding mem

Chief Information Off

- 2. What operating sys Currently, FDCC setti
- 3. Where can I obtain In general, NIST sugs (SP) guide if one exist not available. Federal: (checklists.nist.gov) t Defense Information 5 guide that could be us 4. do not exist. Federal a Regardless which guid deployed information recommended checkli
- 4. How was the FDCC The Windows Vista F Security Guides for b Vista Security Guide v NSA, and NIST. The DISA, NSA, and NIS The Windows XP FD Security-Limited Fund Internet Explorer 7.0.

FDCC Laboratory Testing

1. What was the objective of the recent NIST test effort?

In support of OMB and Fede DISA, Microsoft, and third-p laboratory testing to verify ac written FDCC policy.

- Pack 2) and Microsof 2. What version of Microsof Internet Explorer 7.0 was tes
- systems other than 3. What if I use a browser of While settings for other brow to use other Web browser so 7.0. If agencies are using Int 2. Why are VHDs be Internet Explorer 7.0.
 - Were any Microsoft Offic Microsoft Office is not instal included in GPOs. The Micro represented in the FDCC doc before laboratory testing. Mic testing after publication of th 3. When will VHDs e
 - 5. To comply with the FDCC the Microsoft Windows F No. The FDCC baseline reco the Microsoft Windows Fire 4 system installation. However, firewall software instead of t
- DoD customization of 6. Is Microsoft Defender an included in the FDCC sett 5

FDCC Agency Testing

1. What are Virtual PCs (VPC), and what is the difference between a VPC and a Virtual Hard Disk (VHD)?

Virtual PC (VPC) is a Microsoft product that allow

instance of an operat instance of an operat (VHD) can utilize the USB ports) in the sar the VHD appears as

- VHDs are very usefu can be installed on a operating systems, V the purposes of ensu 2. How are the St
- over a single physica According to Micros VHDs will be publish http://csrc.nist.gov/f

malfunctioned with t

- What can be dow The FDCC technical policy documentation content files.
- Can I use the VHI

Security Content Automation Protocol

1. What is SCAP?

NIST recently established a suite of interoperable and automatable security standards known as the Security Content Automation Protocol (SCAP). By virtue

of using XML-ba readable. Specific host SCAP refere http://nvd.nist.go

- As part of the iter that both VHDs a and test complian tools were able to settings were pro used for testing c determine if newl
- 3. What settings There are a small at this time. Thes
- 4. Where can I of FDCC SCAP con

FDCC Deployment

1. What are some settings that will impact system functionality that I should test before I deploy the OMB mandated FDCC baseline in an operational environment?

There are a number of settings that will impact system functionality and agencies should test thoroughly before they are deployed in an operational environment.

- Running the system as a standard user some applications may not work properly because they require administrative access to the operating system and application directories and registry keys.
- Minimum 12 characters password and change every 60 days this may impact system usability and interoperability with some enterprise single sign-on password management systems.
- · Wireless service the wireless service is disabled and this will prevent the use of Wi-Fi network interfaces that depend on the built-in wireless
- FIPS 140-2 setting impacts browser interoperability with Web sites that do not support the FIPS 140-2 approved algorithms. This can usually be

Settings

Impact System Functionality

- Operate the system as a standard user
- Accounts: Administrator account status -Disabled
- Wireless Service Disabled
- Maximum password age 60 days
- Minimum password length 12 characters
- Microsoft network client: Digitally sign communications (always) – Enabled
- Network security: LAN Manager authentication level - Send NTLMv2 Response only. Refuse LM and NTLM
- System cryptography: Use FIPS compliant algorithms for encryption, hashing, and signing – Enabled
- Windows Firewall Enabled

http://csrc.nist.gov/fdcc/download fdcc.html



FDCC

- Home
- Disclaimer

Federal Desktop Core Configuration **FDCC**

- DOWNLOAD PAGE -

NIST Resources

- NIST Security Checklist for IT
- Security Content **Automation Protocol**
- Guidance for Securing Microsoft Windows
- Guidance for Securing Microsoft Windows XP Home Edition: A NIST Security Configuration Checklist
- Guidance for Securing Microsoft Windows XP Systems for IT Professionals: A NIST Security Configuration Checklist
- NIST Systems Guidance for Windows 2000 Professional
- FISMA Implementation **Project**
- National Vulnerability <u>Database</u>

WARNING NOTICE

Do not attempt to implement any of the settings without first testing them in a non-operational environment. These recommendations should be applied only Windows XP Professional SP2 and Vista systems and will not work on Windov 9X/ME, Windows NT, Windows 2000 or Windows Server 2003. The security pol have been tested on Windows XP Professional SP2 and Vista systems with a Windows 2003 server and will not work on Windows 9X/ME, Windows NT, Win 2000 or Windows Server 2003.

The draft download packages contain recommended security settings; they are n meant to replace well-structured policy or sound judgment. Furthermore, these recommendations do not address site-specific configuration issues. Care must taken when implementing these settings to address local operational and policy concerns.

These recommendations were developed at the National Institute of Standards a Technology, which collaborated with DHS, DISA, NSA, USAF, and Microsoft to prothe Windows XP and Vista FDCC baseline. Pursuant to title 17 Section 105 of the States Code, these recommendations are not subject to copyright protection and the public domain. NIST assumes no responsibility whatsoever for their use by of parties, and makes no quarantees, expressed or implied, about their quality, relia or any other characteristic. We would appreciate acknowledgement if the recommendations are used.

Download Packages

Please read the Download FAQ

Documentation

FDCC Documentation Release 1.0 - Draft [xls, 100K]

SHA-1 Digest: 2CB88444394B73 E69EF411758978 09A1232588A0

SHA-256 Digest: D6ECF963F4D2FA 4AB92BA79D1527 768DDF5ACCC875 872496DE4C4C23 E283CD17

GPO₅

FDCC GPO Release 1.0 - Draft [zip, ~3 MB]

SHA-1 Digest: B46C514BFABD312F A9C1AC149AFA04D 2D15215FC

SHA-256 Digest: 682B097721E068 170AD7CE883BC7 0045803FE6A00A 8C97A60A194C13 CEFCDA5C

VHD Files

Windows XP FDCC VHD Release 1.0 (Click to download) -Draft [zip, ~1.8GB]

Internet Explorer 6 and 7 have a download limitation of 2 GB and 4 GB respectively. Other browsers do not appear to have this limitation.

SHA-1 Digest: E50E4F3B40920D 595FA0481B3AF7 E72C76203249

SHA-256 Digest: 1F20C16989CF30 B5187EA95CD07B A629CF18F0F41D 89E87B8EC8DB9C

Windows Vista FDCC VHD Release 1.0 -(Click to download) -Draft [zip, ~4.5GB]

D768858E

Note:

Internet Explorer 6 and 7 have a download

SCAP Content

FDCC SCAP Content

Windows XP SP2

Windows XP Firewall

Internet Explorer 7.0

Windows Vista

Windows Vista Firewall

The preceding files are intended for use with "SCAP FDCC scanning capable" tools.

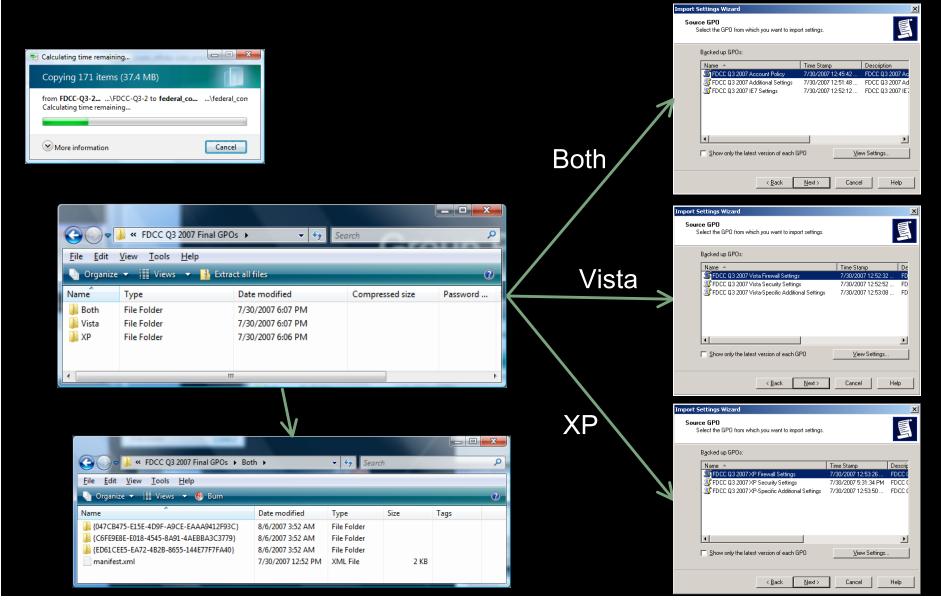
FDCC Security Settings

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A1 🔻 🏂 Policy Path					
Policy Path	Policy Setting Name	FDCC Windows Vista	FDCC Windows XP	CCE Reference	Comment
1	. oney coming name				
Computer Configuration\Windows Settings\Security Settings\Account 2 Policies\Password Policy	Enforce password history	24 passwords remembered	24 passwords remembered	CCE-60	
Computer Configuration\Windows Settings\Security Settings\Account Policies\Password Policy	Maximum password age	60 days	60 days	CCE-871	
Computer Configuration\Windows Settings\Security Settings\Account 4 Policies\Password Policy	Minimum password age	1 day	1 day	CCE-324	
Computer Configuration\Windows Settings\Security Settings\Account Policies\Password Policy	Minimum password length	12 characters	12 characters	CCE-100	
Computer Configuration\Windows Settings\Security Settings\Account Policies\Password Policy	Password must meet complexity requirement	Enabled	Enabled	CCE-633	
Computer Configuration\Windows Settings\Security Settings\Account Policies\Password Policy	Store passwords using reversible encryption for all users in the domain	Disabled	Disabled	CCE-479	
Computer Configuration\Windows Settings\Security Settings\Account 8 Policies\Account Lockout Policy	Account lockout duration	15 minutes	15 minutes	CCE-754	
Computer Configuration\Windows Settings\Security Settings\Account 9 Policies\Account Lockout Policy	Account lockout threshold	5 invalid logon attempts	5 invalid logon attempts	CCE-658	
Computer Configuration\Windows Settings\Security Settings\Account 10 Policies\Account Lockout Policy	Reset lockout counter after	15 minutes	15 minutes	CCE-733	
Computer Configuration\Windows Settings\Security Settings\Account 11 Policies\Kerberos Policy	Enforce user logon restrictions	Enabled	Enabled	CCE-227	
Computer Configuration\Windows Settings\Security Settings\Account 12 Policies\Kerberos Policy	Maximum lifetime for service ticket	600 minutes	600 minutes	CCE-6	
Computer Configuration\Windows Settings\Security Settings\Account 13 Policies\Kerberos Policy	Maximum lifetime for user ticket	10 hours	10 hours	CCE-37	
Computer Configuration\Windows Settings\Security Settings\Account 14 Policies\Kerberos Policy	Maximum lifetime for user ticket renewal	7 days	7 days	CCE-33	
Ready FDCC_Security_Settings	FDCC_Other_Settings	-		Count 6	100% (=) (+)
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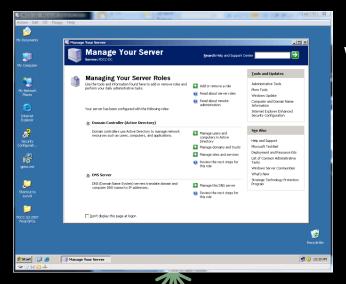
FDCC Other Settings

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	Policy Path				×
Policy Path	B Policy Setting Name	C FDCC Windows Vista	FDCC Windows XP	CCE Reference	F Comment
1	Folicy Setting Name	PDCC Willdows Vista	FDCC Willdows XF	CCL Reference	Comment
	Turn on Mapper I/O (LLTDIO) driver	Disabled	(Not Applicable)	CCE-947	
	Turn on Responder (RSPNDR) driver	Disabled	(Not Applicable)	CCE-1134	
Computer	Turn Off Microsoft Peer-to-Peer Networking Services	Enabled	Enabled	CCE-86	
Computer Configuration\Administrative Templates\Network\Network 5 Connections	Prohibit installation and configuration of Network Bridge on your DNS domain network		Enabled	CCE-896	
	Prohibit use of Internet Connection Firewall on your DNS domain network	Enabled	Enabled		
	Prohibit use of Internet Connection Sharing on your DNS domain network	Enabled	Enabled	CCE-672	
Computer Configuration\Administrative Templates\Network\Network Connections\Windows 8 Firewal\Domain Profile	Windows Firewall: Allow file and printer sharing exception		Disabled	CCE-555	
	Windows Firewall: Allow ICMP exceptions	(Not Applicable)	Enabled: Allow inbound echo requests	CCE-277	
Computer	Windows Firewall: Allow local port exceptions	(Not Applicable)	Disabled	CCE-370	
H → ► FDCC_Security_Settings FI	DCC_Other_Settings		I	11	
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Group Policy Objects (GPOs)



GPOs Test Environment



Windows Server 2003
- AD/DNS - GPOs -

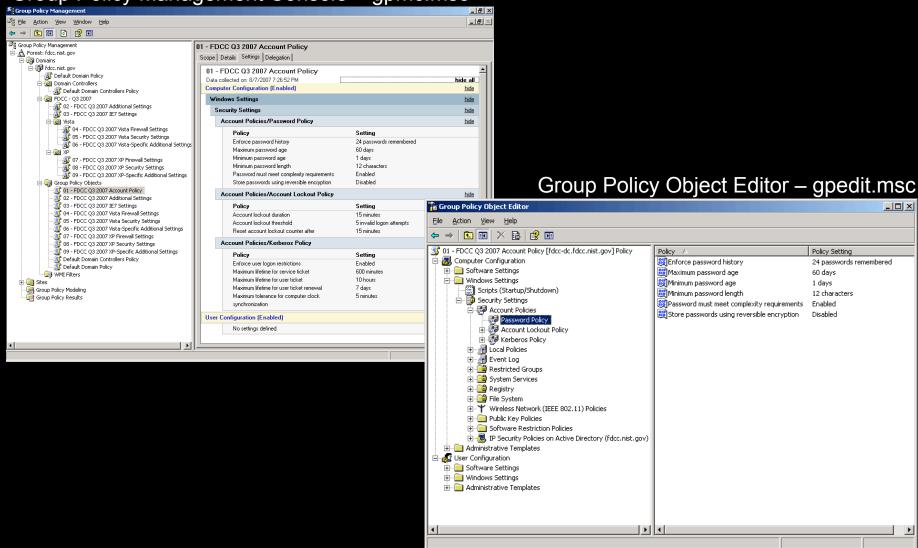
Windows Vista Client Windows XP Client





FDCC GPOs

Group Policy Management Console – gpmc.msc





Download FDCC VHD Files

1. I am having trouble downloading the VHD files with Microsoft Internet Explorer. How can I download the VHD files?

There are known file size limitations when downloading via Internet Explorer (IE) 6 and 7. More specifically, IE 6 has a 2GB file size limit, and IE 7 has a 4GB file size limit. At present, no update is available for IE. However, other browsers and utilities have been used to successfully download the VHD files. Mozilla Firefox, Opera Web Browser, Curl, and GNU wget have all been confirmed as supporting download of the VHD files.

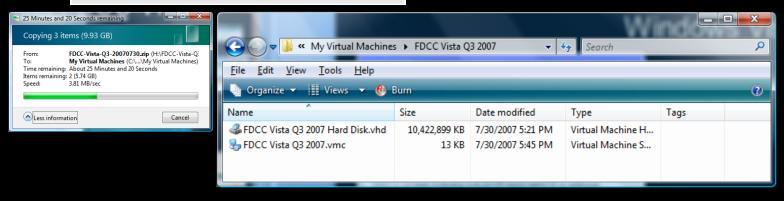
2. Does NIST intend to have HTTP mirror or FTP alternate download sites available?

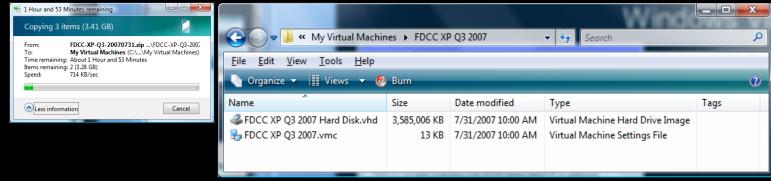
NIST is currently evaluating both HTTP mirror and FTP as additional mechanisms to download the VHD files. Additional and alternate sites will be linked to the download site as they become available.

NTFS Disk Space Requirement:

Vista: 4.5 GB + 10 GB + Swap

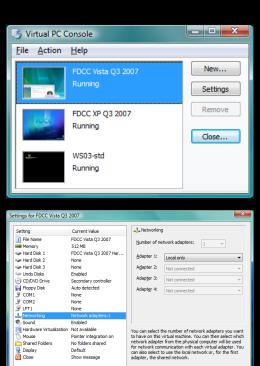
XP: 1.8 GB + 3.5 GB + Swap



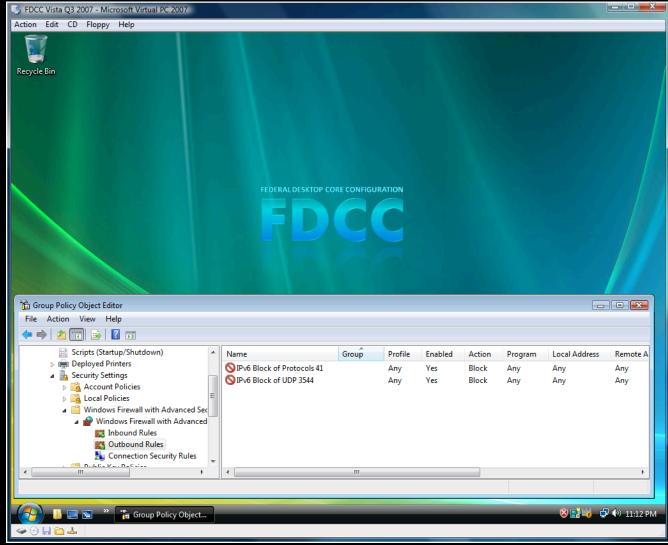


Vista FDCC VPC

- 1. Microsoft
 Virtual PC
 2007
- 2. fdcc admin
- 3. P@ssw0rd123456



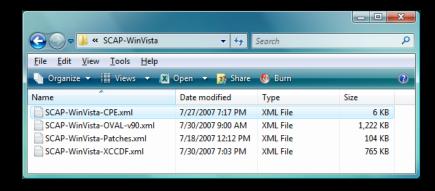
OK Cancel



SCAP Content

http://nvd.nist.gov/scapchecklists.cfm

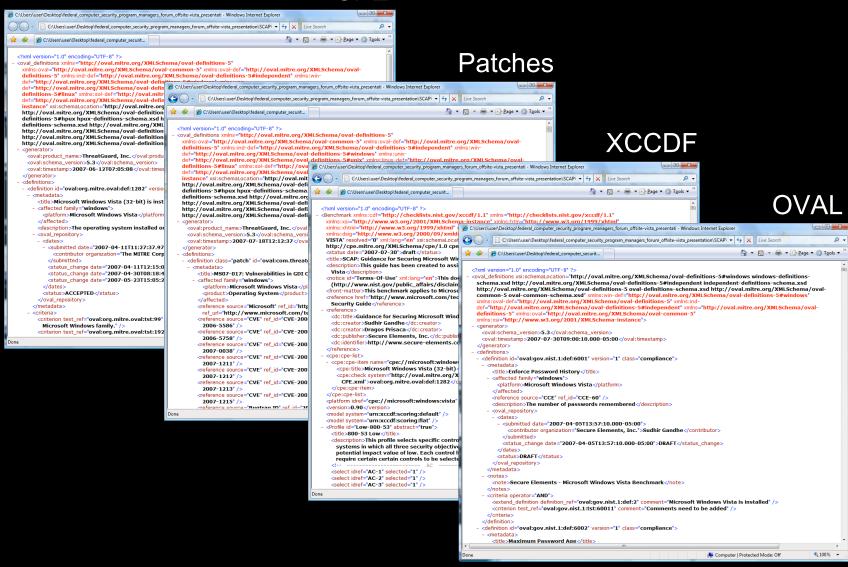
Microsoft Windows Vista	SCAP-WinVista.zip (v0.90) released 7/31/2007 SHA1 Digest SHA256 Digest	2 secure elements	*Threat Guard	Includes a Federal Desktop Core Configuration profile
Microsoft Windows XP Professional	SCAP-WinXPPro.zip (vo.90) released 7/31/2007 SHA1 Digest SHA256 Digest	National Institute of Standards and Tachnology	* ThreatGuard	Includes a Federal Desktop Core Configuration profile. The FISMA compliance policies are complete. The DISA policies are substantial but still under development by Mitre.
Microsoft Windows Vista Firewall	SCAP-WinVistaFirewall.zip (v0.12) released 7/31/2007 SHA1 Digest SHA256 Digest	2 secure elements	Patches are located in the OSs zip files.	Includes a Federal Desktop Core Configuration profile
Windows Vista	(v0.12) released 7/31/2007 SHA1 Digest	9 secure elements 9 secure elements		Federal Desktop Core Configuration profile
Windows Vista Firewall Microsoft Windows XP	(v0.12) released 7/31/2007 SHA1 Digest SHA256 Digest SCAP-WinXPFirewall.zip (v0.18) released 7/31/2007 SHA1 Digest		in the OSs zip files. Patches are located	Federal Desktop Core Configuration profile Includes a Federal Desktop Core Configuration



Common Platform Enumeration – CPE Open Vulnerability Assessment Language – OVAL eXtensible Configuration Checklist Description Format – XCCDF

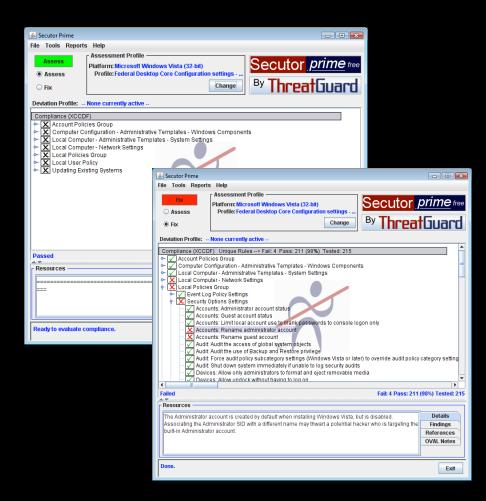
SCAP Content

CPE



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Verify and Test



Demo & Questions