



Microsoft Windows

Common Criteria Evaluation

Microsoft Windows Server 2008 R2 Hyper-V

Evaluated Configuration Guide

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1 Introduction

Welcome to the *Hyper-V Common Criteria Guide*. This guide describes how to setup the Hyper-V server role on Windows Server 2008 to meet the same security conditions used by the Common Criteria (CC) evaluation.

Microsoft engineering teams, consultants, support engineers, partners, and customers have reviewed and approved this prescriptive guidance to make it:

- **Proven.** Based on field experience.
- **Authoritative.** Offers the best advice available.
- **Accurate.** Technically validated and tested.
- **Actionable.** Provides the steps to success.
- **Relevant.** Addresses real-world security concerns.

This guide is a supplement to the [Hyper-V™ Security Guide](#), the Security Compliance Manager for the [Windows Server 2008 Security Guide](#), and published by Microsoft. It provides the additional installation, configuration, and security information required to reproduce the security level of a Common Criteria-evaluated system.

Important If configuration recommendations in the general technical documentation or Hyper-V, Windows Server 2008, and Windows Server 2003 are not consistent with the instructions in the Hyper-V Evaluation Configuration Guide, the information in the Hyper-V Evaluation Configuration Guide takes precedence and applies.

1.1 Who Should Read This Guide

The *Hyper-V Evaluation Configuration Guide* is primarily for IT professionals, security specialists, network architects, computer engineers, and other IT consultants who plan application or infrastructure development and deployments of Windows Server 2008 for servers in an enterprise environment. The guide is not intended for home users. This guide is for individuals whose jobs may include one or more of the following roles:

- **Security specialist.** Users in this role focus on how to provide security across computing platforms within an organization. Security specialists require a reliable reference guide that addresses the security needs of all segments of their organizations and also offers proven methods to implement security countermeasures. Security specialists identify security features and settings, and then provide recommendations on how their customers can most effectively use them in high risk environments.
- **IT operations, help desk, and deployment staff.** Users in IT operations focus on integrating security and controlling change in the deployment process, and deployment staff focuses on administering security updates quickly. Staff in these roles also troubleshoot security issues related to applications that involve how to install, configure, and improve the usability and

manageability of software. They monitor these types of issues to define measurable security improvements with minimal impact on critical business applications.

- **Network architect and planner.** Users in this role drive the network architecture efforts for computers in their organizations.
- **Consultant.** Users in this role are aware of security scenarios that span all the business levels of an organization. IT consultants from both Microsoft Services and partners take advantage of knowledge transfer tools for enterprise customers and partners.

1.1.1 Skills and Readiness

The following knowledge and skills are required for consultants, operations, help desk and deployment staff, and security specialists who develop, deploy, and secure server systems running Windows Server 2008 in an enterprise organization:

- MCSE on Microsoft Windows Server 2003 or a later certification and two or more years of security-related experience, or equivalent knowledge.
- Experience using Hyper-V Manager.
- Experience in the administration of Windows machines using command line management utilities and scripts.
- Experience in the administration of local users, groups, and policies using command line management utilities.
- Experience configuring Windows Management Instrumentation (WMI) for remote administration.
- Experience using WMI management tools for remote administration including Microsoft Management Console (MMC), eventvwr, and virtmgmt.
- Experience using the Security Configuration Wizard (SCW).
- Experience deploying applications and server computers in enterprise environments.
- In-depth knowledge of the organization's domain and Active Directory environments (OPTIONAL).
- Experience with the Group Policy Management Console and the administration of Group Policy using it (OPTIONAL).

1.2 Section Summaries

This release of the *Hyper-V Evaluation Configuration Guide* consists of this Overview and four sections that discuss how to setup your Hyper-V server role environment to match the security conditions of the evaluated configuration.

1.2.1 Introduction

The overview states the purpose and scope of the guide, defines the guide audience, and indicates the organization of the guide to assist you in locating the information relevant to you. It also describes the user prerequisites for the guidance. Brief descriptions follow for each chapter.

1.2.2 Common Criteria Overview

This chapter introduces the Common Criteria, further describes this guide, and provides an implementation roadmap.

1.2.3 Specifications and References for a CC-evaluated System

This chapter provides specifications and references for implementing a CC-evaluated Hyper-V server role with Windows Server 2008.

1.2.4 Security Policy Assumptions and Conditions

A CC-evaluated implementation of the Hyper-V server role of Windows Server 2008 makes specific assumptions about the required security policy and installation restrictions. Assumptions are items and issues that cannot be formally evaluated under CC but are required to ensure the security level of a CC-evaluated system. Therefore, to reproduce the CC-evaluated implementation of the -V server role of Windows Server 2008, you must review and apply the items in this chapter.

1.2.5 Configuring Elevated Security Functionality

A CC-evaluated implementation of the Hyper-V server role of Windows Server 2008 makes specific assumptions about the security functionality included in the evaluation. To install and configure a CC-evaluated implementation of the Hyper-V server role of Windows Server 2008, you must first use the standard technical documentation and guidance for the product. Then you must review and apply the items in this chapter.

1.3 Style Conventions

This guidance uses the style conventions that are described in the following table.

Element	Meaning
Bold font	Signifies characters typed exactly as shown, including commands, switches, and file names. User interface elements also appear in bold.
<i>Italic font</i>	Titles of books and other substantial publications appear in italic.
<Italic>	Placeholders set in italic and angle brackets <Italic> represent variables.
Monospace font	Defines code and script samples.
Note	Alerts the reader to supplementary information.
Important	Alerts the reader to essential supplementary information.

1.4 Support and Feedback

The Solution Accelerators – Security and Compliance (SASC) team would appreciate your thoughts about this and other Solution Accelerators. Please contribute comments and feedback to secwish@microsoft.com. We look forward to hearing from you.

Solution Accelerators provide prescriptive guidance and automation for cross-product integration. They present proven tools and content to help you plan, build, deploy, and operate information technology with confidence. To view the extensive range of Solution Accelerators and for additional information, visit the [Solution Accelerators](http://go.microsoft.com/fwlink/?LinkId=108308) page on Microsoft TechNet (<http://go.microsoft.com/fwlink/?LinkId=108308>).

2 Common Criteria Overview

This section covers the following topics:

- Introduction to Common Criteria
- Definition of a CC-compliant System
- What This Guide Describes
- Implementation Roadmap

2.1 Introduction to Common Criteria

The Common Criteria for Information Technology (IT) Security Evaluation (abbreviated as Common Criteria or CC) is an international standard (ISO / IEC 15408) for IT security certification. CC provides a general model for evaluation based on constructs for expressing IT security objectives, for selecting and defining IT security requirements, and for writing high-level specifications for products and systems. Common Criteria is used by governments and organizations around the world to assess the security assurance provided by IT products.

The Common Criteria provides a standardized methodology aimed at establishing the level of confidence that may be placed in the product's security features through expressing security requirements and defining rigorous criteria by which products are evaluated. A product that passes a Common Criteria evaluation receives officially recognized certification. Common Criteria certifications are widely recognized among IT professionals, organizations, government agencies, and customers as a seal-of-approval for mission-critical software. Note, however, that if a product is CC-certified, it does not necessarily mean it is completely secure. The process of obtaining a CC certification restricts the security analysis to certain security features taken in the context of specific assumptions about the operating environment and the strength of threats faced by the product in that environment. It is intended to provide a level of assurance about the security functions that have been examined by a neutral third party. The CC evaluation also provides help in deciding if the intended use of the system fits the described capabilities.

Common Criteria evaluations can take place in any certificate issuing member country participating in the Common Criteria Mutual Recognition Arrangement (CCMRA). The issued certificates are then accepted globally.

You can find more information about CC at the following Web site:

<http://www.commoncriteriaportal.org>.

2.2 Definition of a CC-compliant System

A system can be considered to be "CC-compliant" if it matches an evaluated and certified configuration. This implies various requirements concerning hardware and software, as well as the operating environment, users, and the ongoing operating procedures.

The hardware and software matches the configuration used during the evaluation. In the case of an operating system, this also requires that the installed kernel, system, and application software are exactly the same as the ones covered by the evaluation. The documentation (including this guide) will specify permitted variations, such as modifying certain configuration files and settings, and installing software that does not have the capability to affect the security of the system (typically those that do not require elevated privileges). Please refer to Section 5 of this guide for more information.

Stated requirements concerning the operating environment must also be met. Typical requirements include a secure location for the hardware (protected from physical access by unauthorized persons), level of training of the authorized personnel, as well as restrictions concerning permitted network connections.

The operation of the system must be in agreement with defined organizational security policies, to ensure that actions by administrators and users do not undermine the system's security.

2.3 What This Guide Describes

This guide makes a distinction between two types of Hyper-V deployments:

- A deployment for a general-purpose production environment
- A deployment that meets the conditions established for the Common Criteria evaluation of this product (see Section 2.2). The system configuration that meets these conditions is referred to as a CC-compliant system in this guide.

This guide describes the latter type of deployment.

2.4 Configuration Roadmap

This Common Criteria evaluation is based on the English version of Server Core 2008 and the Hyper-V Server Role and its documentation. You must use only the English-version and refer only to the English-version technical documentation when implementing the CC-evaluated version of Hyper-V and Windows Server 2008 R2. To install and configure a CC-evaluated implementation, you must first follow the instructions described in the *Windows 7 - WS08 R2 Common Criteria Supplemental Admin Guidance, which includes instructions on how to deploy and then harden the Windows installation*. Next, refer to

the **Hyper-V R2 Evaluation Configuration Guide** (this document) for supplemental information specific to the Common Criteria requirements that is specific to Hyper-V.

If configuration recommendations in the technical documentation are not consistent with the instructions in the Hyper-V Common Criteria Guide, the information in the Hyper-V Common Criteria Guide takes precedence and applies. For example, if a procedure is described as optional in the [Microsoft Hyper-V Server 2008 Configuration Guide](http://www.microsoft.com/downloads/details.aspx?FamilyId=E1E111C9-FA69-4B4D-8963-1DD87804C04F&displaylang=en) (<http://www.microsoft.com/downloads/details.aspx?FamilyId=E1E111C9-FA69-4B4D-8963-1DD87804C04F&displaylang=en>) but is required in the Hyper-V Evaluation Configuration Guide, that procedure is required to meet the specifications for Common Criteria compliance.

Use the following checklist as a roadmap to configuring a CC-evaluated version of Hyper-V:

1. Understand the definition and purpose of the Common Criteria standard provided in Sections 2.1 and 2.2.
2. Review the CC-evaluated product specifications, documentation references, and summary of evaluated security functionality in Section 3.
3. Review and apply the policy conditions required for a CC-evaluated system provided in Section 4.
4. Install and configure Windows Server 2008 R2 and then the Hyper-V role according to the standard installation documentation [Microsoft Hyper-V Server 2008 Configuration Guide](http://www.microsoft.com/downloads/details.aspx?FamilyId=E1E111C9-FA69-4B4D-8963-1DD87804C04F&displaylang=en) (<http://www.microsoft.com/downloads/details.aspx?FamilyId=E1E111C9-FA69-4B4D-8963-1DD87804C04F&displaylang=en>)
5. Harden the Server Core 2008 installation according to [Windows Server 2008 Security Guide](http://go.microsoft.com/fwlink/?LinkId=92552) (<http://go.microsoft.com/fwlink/?LinkId=92552>)
6. Harden the Hyper-V Server role according to [Hyper-V™ Security Guide](http://technet.microsoft.com/en-us/library/dd569113.aspx) (<http://technet.microsoft.com/en-us/library/dd569113.aspx>)
7. Review and apply the security configuration required for a CC-evaluated system according to this guide.

3 Specification and References for a CC-evaluated System

This section provides specifications and references for implementing a Common Criteria (CC)-evaluated Hyper-V server role with Windows Server 2008. It covers the following topics

- About the Evaluated Version of the Hyper-V Server Role of Windows Server 2008
- How to Obtain the CC-Evaluated Product
- Component Specifications for the CC-Evaluated System

- Technical Documentation Guidance and References
- Evaluated and Non-Evaluated Security Functionality

3.1 About the Evaluated Versions Server 2008

3.1.1 Windows Common Criteria Certifications

General information about the evaluation of this and other Microsoft Windows products can be obtained at <http://technet.microsoft.com/en-us/dd229319.aspx>.

3.1.2 Hyper-V Common Criteria Certifications

The Hyper-V server role of Windows Server 2008 contains security technology that meets the requirements of the Common Criteria Evaluation Assurance Level (EAL) 4+. The system configuration that meets these requirements is referred to as the CC-evaluated system in this guide. The complete list of Hyper-V components is provided in the [Hyper-V Attack Surface Reference Workbook](http://download.microsoft.com/download/8/2/9/829bee7b-821b-4c4c-8297-13762aa5c3e4/Windows%20Server%202008%20Hyper-V%20Attack%20Surface%20Reference.xlsx) (<http://download.microsoft.com/download/8/2/9/829bee7b-821b-4c4c-8297-13762aa5c3e4/Windows%20Server%202008%20Hyper-V%20Attack%20Surface%20Reference.xlsx>).

The CC evaluation of the Hyper-V server role of Windows Server 2008 was performed on the specific configuration defined in this guide. Note that this covers the use of additional hardware device drivers. Any deviation from this configuration may result in a non-evaluated system, but does not necessarily mean that the security of the resulting system is reduced. It is the responsibility of the individual organization to determine the potential risks and benefits associated with installing newer product versions or additional software that was not subject to this evaluation, and correspondingly deviating from the evaluated configuration described in this document.

The Target of Evaluation (TOE) for this evaluation of Hyper-V is defined as follows:

Product: *Microsoft Hyper-V Server 2008 R2 (6.1.7600)*

Language: *English*

Underlying processors: *Hardware-assisted virtualization. This is available in processors that include a virtualization option; specifically, Intel VT or AMD Virtualization (AMD-V) – see [Hyper-V Installation Prerequisites](http://technet.microsoft.com/en-us/library/cc731898.aspx) (<http://technet.microsoft.com/en-us/library/cc731898.aspx>) for further details.*

3.1.3 Detailed Hardware Requirements and Supported Guest Operating Systems

3.1.3.1 Memory

The maximum amount of memory that can be used is determined by the type of operating system, as follows:

- For Windows Server 2008 Enterprise and Windows Server 2008 Datacenter, the physical computer can be configured with up to 2 TB of physical memory, and partitions that run either of those editions can be configured with up to 64 GB of memory per partition.

- For Windows Server 2008 Standard, the physical computer can be configured with up to 32 GB of physical memory, and partitions that run either of those editions can be configured with up to 31 GB of memory per partition.

3.1.3.2 Logical CPUs

Hyper-V is supported on physical computers with up to 16 logical processors. A logical processor can be a core processor or a processor using hyper-threading technology. One can configure up to 4 virtual processors on a partition. However, the number of processors supported by a guest operating system might be lower.

The following are some examples of supported systems and the number of logical processors they provide:

- A single-processor/dual-core system provides 2 logical processors.
- A single-processor/quad-core system provides 4 logical processors.
- A dual-processor/dual-core system provides 4 logical processors.
- A dual-processor/quad-core system provides 8 logical processors.
- A quad-processor/dual-core system provides 8 logical processors.
- A quad-processor/dual-core, hyper-threaded system provides 16 logical processors.
- A quad-processor/quad-core system provides 16 logical processors.

3.1.4 Networking

The following networking Hyper-V configurations are supported:

- Each partition can be configured with up to 12 virtual network adapters — 8 can be the “network adapter” type and 4 can be the “legacy network adapter” type. The network adapter type provides better performance and requires a dedicated driver that is included in the integration services packages.
- Each virtual network adapter can be configured with either a static or dynamic MAC address.
- Each virtual network adapter offers integrated virtual local area network (VLAN) support and can be assigned a unique VLAN channel.
- Unlimited number of virtual networks with an unlimited number of partitions per virtual network is also supported.

Important Hyper-V cannot connect a virtual network to a wireless network adapter. As a result, wireless networking capabilities can not be provided to partitions.

3.1.4.1 Storage

The following list of supported Hyper-V physical storage options is supported:

- Direct-attached storage: Serial Advanced Technology Attachment (SATA), external Serial Advanced Technology Attachment (eSATA), Parallel Advanced Technology Attachment (PATA), Serial Attached SCSI (SAS), SCSI, USB, and Firewire.
- Storage area networks (SANs): Internet SCSI (iSCSI), Fibre Channel, and SAS technologies can be used.
- Network-attached storage

The following partition configurations are supported with the following types of virtual storage.

- Virtual hard disks of up to 2040 GB. Hyper-V can use fixed virtual hard disks, dynamically expanding virtual hard disks, and differencing disks.
- Virtual IDE devices. Each partition supports up to 4 IDE devices. The startup disk (sometimes referred to as the boot disk) must be attached to one of the IDE devices. The startup disk can be either a virtual hard disk or a physical disk.
- Virtual SCSI devices. Each partition supports up to 4 virtual SCSI controllers, and each controller supports up to 64 disks. This means that each partition can be configured with as many as 256 virtual SCSI disks.
- Physical disks. Physical disks attached directly to a partition (sometimes referred to as pass-through disks) have no size limitation other than what is supported by the guest operating system.
- Partition storage capacity. Using virtual hard disks, each partition supports up to 512 TB of storage. Using physical disks, this number is even greater depending on what is supported by the guest operating system.
- Partition snapshots. Hyper-V supports up to 50 snapshots per partition.

3.1.4.2 Peripheral Hardware Components

The following peripheral (physical and virtual) hardware components that can be used with Hyper-V:

- DVD Drive
 - A partition has 1 virtual DVD drive by default when you create the partition. Partitions can be configured with up to 3 DVD drives, connected to an IDE controller. (Partitions support up to 4 IDE devices, but one device must be the startup disk.)
 - A virtual DVD drive can access CDs and DVDs, either .iso files or physical media. However, only one partition can be configured to access a physical CD/DVD drive at a time.

- Virtual COM Port
 - Each partition is configured with 2 virtual serial (COM) ports that can be attached to a named pipe to communicate with a local or remote physical computer.

Important: No access to a physical COM port is available from a partition.

- Virtual Floppy Drive
 - Each partition is configured with 1 virtual floppy drive, which can access virtual floppy disk (.vfd) files.

Important: No access to a physical floppy drive is available from a partition.

3.1.4.3 Integration Services (Enlightenments)

Integration services are available for supported guest operating systems as described in the following table.

Guest operating system	Device and service support
Windows Server 2008 [R2] (64-bit editions)	Drivers: IDE, SCSI, networking, video, and mouse Services: operating system shutdown, time synchronization, data exchange, heartbeat, and online backup
Windows Server 2008 (x86 editions)	Drivers: IDE, SCSI, networking, video, and mouse Services: operating system shutdown, time synchronization, data exchange, heartbeat, and online backup
Windows Server 2003 (x64 editions) with Service Pack 2	Drivers: IDE, SCSI, networking, video, and mouse Services: operating system shutdown, time synchronization,

Guest operating system	Device and service support
	data exchange, heartbeat, and online backup
Windows Server 2003 (x86 editions) with Service Pack 2	Drivers: IDE, SCSI, networking, video, and mouse Services: operating system shutdown, time synchronization, data exchange, heartbeat, and online backup
Windows 2000 Server with Service Pack 4	Drivers: IDE, networking, video, and mouse Services: operating system shutdown, time synchronization, data exchange, and heartbeat
Windows 2000 Advanced Server with Service Pack 4	Drivers: IDE, networking, video, and mouse Services: operating system shutdown, time synchronization, data exchange, and heartbeat
Suse Linux Enterprise Server 10 (x64 edition) with Service Pack 1 or 2	Drivers only: IDE, SCSI, networking, and mouse
Suse Linux Enterprise Server 10 (x86 edition) with Service Pack 1 or 2	Drivers only: IDE, SCSI, networking, and mouse
Windows Vista (64-bit editions) with Service Pack 1	Drivers: IDE, SCSI, networking, video, and mouse Services: operating system shutdown, time synchronization, data exchange, heartbeat, and online backup
Windows Vista (x86 editions) with Service Pack 1	Drivers: IDE, networking, video, and mouse Services: operating system shutdown, time synchronization, data exchange, heartbeat, and online backup
Windows XP Professional (x86 editions) with Service Pack 2 or 3	Drivers: IDE, SCSI, networking, video, and mouse Services: operating system shutdown, time synchronization, data exchange, and heartbeat
Windows XP Professional x64 Edition with Service Pack 2	Drivers: IDE, SCSI, networking, video, and mouse Services: operating system shutdown, time synchronization, data exchange, and heartbeat

3.1.4.4 Supported Guest Operating Systems

Refer to [http://technet.microsoft.com/en-us/library/cc794868\(WS.10\).aspx](http://technet.microsoft.com/en-us/library/cc794868(WS.10).aspx) for the support set of client guest operating systems and server operating systems that can run as virtual machines using Hyper-V.

3.2 How to Obtain the CC-Evaluated Product

The Common Criteria evaluation of Microsoft Hyper-V Server 2008 R2 has assessed the distribution method for the evaluated version of the TOE to ensure that a distribution path is available that allows users to verify the authenticity of the software.

3.2.1 Product Versions

The Windows versions including the Microsoft Hyper-V Server 2008 R2 covered by this evaluation are:

Product:	<i>Microsoft Windows Server 2008 R2 Standard Edition</i> <i>Microsoft Windows Server 2008 R2 Enterprise Edition</i> <i>Microsoft Windows Server 2008 R2 Datacenter</i> <i>Microsoft Hyper-V Server 2008 R2</i>
Language:	<i>English</i>
Version:	<i>6.1.7600</i>

The first three versions refer to Windows Server 2008 R2 editions where Hyper-V is available as a server role that must be enabled and configured via the Server Manager. The last version refers to a stand-alone Windows Server 2008 R2 where the Hyper-V role is enabled by default.

3.2.2 Hyper-V Evaluation Configuration Guide

This guide is obtained from <http://technet.microsoft.com/en-us/dd229319.aspx>.

Administrators who wish to run the validated configuration must first validate the authenticity and integrity of the guidance provided in this document by sending mail to wincc@microsoft.com and requesting a digitally signed copy of this guide. Authorized Microsoft personnel will respond with a digitally signed S/MIME message containing this guide. Administrators must verify the digital signature of the message and use the guide included in the response. Most email clients have built-in means to verify the digital signature of S/MIME messages.

The following guidance documents may also be validated for authenticity and integrity by sending mail to wincc@microsoft.com as noted above:

- Hyper-V Security Guide
- Server Core Installation Option Getting Started Guide
- Microsoft Windows 7 – Windows Server 2008 R2 Common Criteria Supplemental Admin Guidance

3.2.3 Product Distribution Method

The distribution method covered by this evaluation is physical installation media (e.g. DVD) manufactured by Microsoft for the Standard, Enterprise or Datacenter product versions and a download for the stand-alone Microsoft Hyper-V Server 2008 R2 product version .

The installation media must be obtained from an authorized Microsoft representative.

In the case of the stand-alone Microsoft Hyper-V Server 2008 R2 edition, a download is available at <https://www.microsoft.com/downloads/en/details.aspx?FamilyID=48359DD2-1C3D-4506-AE0A-232D0314CCF6>.

The following steps describe how to verify the authenticity of the installation media or download contents.

3.2.4 Verifying SHA-1 Hash Sums

SHA-1, a cryptographic hash sum mechanism, can be used to verify the authenticity of the installation media contents by computing hash sums of the installation media files and comparing those hash sums with the hash sums indicated in section “7 Appendix: Installation Media Hash Sum” of this document.

In the case of the stand-alone Microsoft Hyper-V Server 2008 R2 edition, the hash sum for the download file is: d9 88 32 63 24 7a e2 87 7f c8 e4 0a 0c b7 fa fe d2 02 f1 62.

On an existing installation of Windows Server, the following command can be executed at the command prompt in order to generate a SHA-1 hash over the file represented by <filename>:

```
certutil -hashfile <filename>
```

On other operating platforms, a variety of free, publicly available utilities can be used, including the File Checksum Integrity Verifier can be obtained at <http://support.microsoft.com/default.aspx?scid=kb;en-us;841290>. The command to be executed for a single file using the File Checksum Integrity Verifier is:

```
fciv -sha1 <filename>.
```

3.3 Evaluated and Non-Evaluated Security Functionality

3.3.1 Evaluated Security Functionality

3.3.1.1 Evaluated Security Functionality Provided by Hyper-V Components

3.3.1.1.1 Generation of Hyper-V audit records

The hypervisor layer and other Hyper-V components in the root partition are able to generate auditable events. Those events are stored and managed by the Server 2008 audit function. Security relevant events generated by the hypervisor are signaled to the root partition and the root partition generates and records the audit record for those events. The security relevant events signaled by the hypervisor are:

- The creation of a partition

- The deletion of a partition
- A failure condition detected internal to the hypervisor component

In addition to those events the Hyper-V specific components within the root partition are capable to generate audit records for the following events:

- Modifications to the Hyper-V AzMan policy
- Access checks performed by AzMan

Each audit records is sent to the Event Logger in the Server 2008 Server Core in the root partition, which inserts the time and data and stores the record in the event log.

3.3.1.1.2 Security Management Functionality

Hyper-V can be managed either directly using the management functions within the root partition, or remotely using a client that connects to the WMI and performs the management activities using this interface. In both cases the administrative user that wants to perform management activities is authenticated by the Server 2008 authentication function and gets his Server 2008 managed privileges assigned. Those define the management activities he is allowed to perform.

Hyper-V specific configuration data is stored in objects that are protected by the standard Server 2008 access control functions. Access to those objects is therefore managed by the access control management functions of Server 2008.

4 Security Policy Assumptions and Conditions

A CC-evaluated implementation of the Hyper-V server role of Windows Server 2008 Core makes specific assumptions about the required security policy and installation restrictions. Assumptions are items and issues that cannot be formally evaluated under CC but are required to ensure the security level of a CC-evaluated system. Therefore, to reproduce the CC-evaluated implementation of the Hyper-V server role of Windows Server 2008 Core, you must review and apply the items in this chapter.

This chapter covers the following topics:

- Security Policy Assumptions
- Installation and Configuration Constraints

4.1 Security Policy Assumptions

The Microsoft Windows Server 2008 R2 Hyper-V Security Target (http://www.commoncriteriaportal.org/products_ALL.html) specifies security policy assumptions for the target of evaluation (TOE) on which the evaluation of the TOE is based. Therefore, to comply with the

CC-evaluated system, enforcing and maintaining the conditions defined in the assumptions listed below is mandatory.

4.1.1 Assumption for the System Environment

It is assumed that the non-IT environment provides the TOE with appropriate physical security commensurate with the value of the IT assets protected by the TOE.

4.1.2 Assumption for System Administrators

Authorized administrators of the TOE are assumed to be knowledgeable and trustworthy to follow this guidance and not misuse their privileges.

It is assumed that properly trained trusted administrators will create and manage the configuration data of partitions.

It is assumed that the administrator installs and configures the TOE in accordance with the guidance provided for the installation and configuration of the TOE.

4.1.3 Assumption for Connectivity and Remote Administration

It is assumed that remote administration is performed only using properly protected communication links.

It is also assumed that any other IT product that may be used to support the authentication of administrators, used to protect communication links, or used to assist administrators in their administrative tasks is trusted to perform its security related functions correctly and does not include side effects that may allow unauthorized persons to perform administrative functions on the TOE or perform administrative functions other than those explicitly initiated by the trusted administrator.

4.1.4 Assumption for Partition User Connectivity

It is assumed that the IT environment is configured in a way that allows users provisioned and entitled to connect to a specific partition, other than the root partition, to do so and access all the information contained within the partition in strict correspondence to the rights assigned to each user. Note that Hyper-V ensures partition isolation that prevents users from one partition to interfere with users or resources from another partition – see Section 0.

4.1.5 Assumption for Software

It is assumed that no additional software than the one specified in the configuration guidance is installed in the root partition of Hyper-V.

4.1.6 Assumption for Hardware

It is assumed that the underlying hardware of the TOE operates correctly as described in the hardware manuals and does not expose undocumented critical side effects.

4.1.7 Assumption for Memory Management

It is assumed that the Windows Server 2008 instance which is running in the root partition provides memory management services to other components running in the server instance or the root partition

with kernel-mode privileges. The assumption also covers that a dedicated and functionally-complete kernel memory management API to these components is exposed; in particular, the kernel memory manager ensures that any new request for allocating memory coming through the API is serviced by zeroizing the memory pages before making them available to the requestor.

4.1.8 Assumption for Physical Network

It is assumed the physical networks that the Windows Server 2008 instance which is running in the root partition have controls that protect against attacks on the physical layer (layer 1) and against attacks on the data link layer (layer 2).

4.1.9 Assumption for Live Migration

It is assumed that the operational environment will ensure the confidentiality and integrity of the data transferred during Live Migration. This can be accomplished by a separate physical network between the clustered machines.

5 Installation and Configuration

5.1.1 Installing the TOE

5.1.1.1 Server Core Installation

Administrators choosing the Server Core Installation option for Microsoft Windows Server 2008 R2 or Microsoft Hyper-V Server 2008 R2 must follow the step-by-step procedure outlined in the [Server Core Installation Option Getting Started Guide](http://technet.microsoft.com/en-us/library/cc753802.aspx) (<http://technet.microsoft.com/en-us/library/cc753802.aspx>) for the Windows Server 2008 R2 server running the Hyper-V role. The installation media must be verified as discussed in section 3.2 How to Obtain the CC-Evaluated Product.

Once the Server Core installation is complete, enable the Hyper-V role by issuing the following command at a command prompt:

```
start /w ocsetup Microsoft-Hyper-V
```

Important Before you enable the Hyper-V role, ensure that you have enabled the required hardware-assisted virtualization and hardware-enforced Data Execution Prevention (DEP) BIOS settings.

Once the Hyper-V role is enabled download the following security updates to a location that can be accessed by the Server Core installation:

1. MS10-019 (<http://www.microsoft.com/technet/security/Bulletin/MS10-019.msp>)
2. MS10-020 (<http://www.microsoft.com/technet/security/Bulletin/MS10-020.msp>)
3. MS10-033 (<http://www.microsoft.com/technet/security/Bulletin/MS10-033.msp>)
4. MS10-046 (<http://www.microsoft.com/technet/security/Bulletin/MS10-046.msp>)
5. MS10-051 (<http://www.microsoft.com/technet/security/Bulletin/MS10-051.msp>)
6. MS10-054 (<http://www.microsoft.com/technet/security/Bulletin/MS10-054.msp>)
7. MS10-073 (<http://www.microsoft.com/technet/security/Bulletin/MS10-073.msp>)
8. MS10-085 (<http://www.microsoft.com/technet/security/Bulletin/MS10-085.msp>)

9. KB2492505 (<http://support.microsoft.com/kb/2492505>)
10. MS10-010 (<http://www.microsoft.com/technet/security/Bulletin/MS10-010.msp>)
11. MS10-102 (<http://www.microsoft.com/technet/security/Bulletin/MS10-102.msp>)
12. MS11-047 (<https://technet.microsoft.com/en-us/security/bulletin/ms11-047>)

The first six security updates in this list represent the Critical updates released as of September 14, 2010 applicable to the Server Core installation option of Windows Server 2008 R2 for x64-based systems. The next three updates were also included in the Common Criteria evaluated version of Windows Server 2008 R2. The last three security updates are applicable only to the Hyper-V R2 role.

All twelve updates, and only these twelve updates, are required if you wish to replicate the configuration used during the Common Criteria testing of Hyper-V R2. However, it is a best practice to keep your software up to date with the current security updates.

After the security updates are downloaded, update the Server Core installation by issuing the following command at a command prompt for each update:

```
wusa <security-update-pathname>
```

Administrators are advised to familiarize themselves with and follow the guidance in Chapter 1 of [Hyper-V™ Security Guide](http://go.microsoft.com/fwlink/?LinkId=92552) (<http://go.microsoft.com/fwlink/?LinkId=92552>) for setting up the Hyper-V role using default installation options that result in minimal attack surface.

Important Chapter 2 in Hyper-V™ Security Guide introduces ways for delegating the management of virtual machines. Administrators must not attempt to configure any of the tools described in this section. Instead, the installing administrators must follow the procedure in this document.

5.1.1.2 Full Installation

Administrators choosing the Full Installation option for Windows Server 2008 R2 follow the instructions in the *Windows 7 – Windows Server 2008 R2 Common Criteria Supplemental Admin Guidance* for installing other computers in the IT environment, using installation media or the download as verified above in section 3.2 How to Obtain the CC-Evaluated Product.

If the Full Installation is intended to be a TOE installation, then the Hyper-V role must be enabled and the security updates (10) and (11) noted in section “5.1.1.1 Server Core Installation” must be applied. It is acceptable in the case of a TOE installation to minimize the other server roles and software that are applied. For example, the TOE installation can be domain-joined to apply the baseline via Group Policy.

Important In section 5.2 Hardening Windows Server 2008 R2 for *Windows 7 – Windows Server 2008 R2 Common Criteria Supplemental Admin Guidance* the **“Windows Server 2008 R2 Security Baseline 1.0”** baseline was used during the Hyper-V R2 Common Criteria evaluation.

Important In 8 Appendix: Installing the IT environment additional information is provided for following the *Windows 7 – Windows Server 2008 R2 Common Criteria Supplemental Admin Guidance*.

5.1.2 Verifying the TOE version

In order to verify that the installed version of the TOE in fact matches the evaluated version of the TOE as identified in Section 3.1, the following command can be executed at the command prompt:

systeminfo

The OS Version and list of installed Hotfixes should match the information provided above in section 3.1.2.

In order to verify that the installed file versions of the TOE in fact match the file versions of the evaluated version of the TOE, the following commands can be executed at a Windows PowerShell prompt¹:

```
[system.diagnostics.fileversioninfo]::GetVersionInfo("c:\windows\system32\ntoskrnl.exe")
```

```
[system.diagnostics.fileversioninfo]::GetVersionInfo("c:\windows\system32\drivers\hvboot.sys")
```

```
[system.diagnostics.fileversioninfo]::GetVersionInfo("c:\windows\system32\hvax64.exe")
```

or

```
[system.diagnostics.fileversioninfo]::GetVersionInfo("c:\windows\system32\hvix64.exe")
```

The file versions should all be "6.1.7600.16385".

5.1.3 Protecting Virtual Machines

Administrators are advised to follow the guidance provided in Chapter 3 in [Hyper-V™ Security Guide](http://technet.microsoft.com/en-us/library/dd569113.aspx) (http://technet.microsoft.com/en-us/library/dd569113.aspx).

6 Appendix: More Information

The following resources provide additional information about security topics and in-depth discussion of the concepts and security prescriptions in this guide on Microsoft.com:

- [Windows 7 – Windows Server 2008 R2 Common Criteria Supplemental Admin Guidance](http://www.microsoft.com/downloads/en/details.aspx?FamilyID=ee05b6d0-9939-4765-9217-63083bb94a00) – http://www.microsoft.com/downloads/en/details.aspx?FamilyID=ee05b6d0-9939-4765-9217-63083bb94a00
- [Microsoft Hyper-V Server 2008 Configuration Guide](http://www.microsoft.com/downloads/details.aspx?FamilyId=E1E111C9-FA69-4B4D-8963-1DD87804C04F&displaylang=en) - http://www.microsoft.com/downloads/details.aspx?FamilyId=E1E111C9-FA69-4B4D-8963-1DD87804C04F&displaylang=en
- [Hyper-V™ Security Guide](http://technet.microsoft.com/en-us/library/dd569113.aspx) - http://technet.microsoft.com/en-us/library/dd569113.aspx
- [Windows Server 2008 Security Guide](http://go.microsoft.com/fwlink/?LinkId=92552) - http://go.microsoft.com/fwlink/?LinkId=92552
- [GPOAccelerator](http://go.microsoft.com/fwlink/?LinkId=107264) tool and guidance - http://go.microsoft.com/fwlink/?LinkId=107264
- [Infrastructure Planning and Design guides](http://go.microsoft.com/fwlink/?LinkId=100915) - http://go.microsoft.com/fwlink/?LinkId=100915

¹ Powershell is not enabled by default for a Server Core installation – in this case the reader must copy the indicated files to a second server that does have PowerShell enabled in order to verify the file versions.

- [Microsoft Assessment and Planning Toolkit](http://go.microsoft.com/fwlink/?LinkId=105520) - http://go.microsoft.com/fwlink/?LinkId=105520
- [Microsoft Deployment](http://go.microsoft.com/fwlink/?LinkId=102093) page on Microsoft TechNet - http://go.microsoft.com/fwlink/?LinkId=102093
- [Microsoft Assessment and Planning Toolkit](http://go.microsoft.com/fwlink/?LinkId=74708) - http://go.microsoft.com/fwlink/?LinkId=74708
- [Security Guidance page](http://go.microsoft.com/fwlink/?LinkId=67571) on Microsoft TechNet - http://go.microsoft.com/fwlink/?LinkId=67571
- [Solution Accelerators](http://go.microsoft.com/fwlink/?LinkId=108308) page on Microsoft TechNet - http://go.microsoft.com/fwlink/?LinkId=108308

7 Appendix: Installation Media Hash Sum Catalog

This appendix contains the hash sum catalog of the installation media for the *Microsoft Windows Server 2008 R2 Standard Edition* product version. The hash sum catalog was produced via the fciv utility obtained as described in section “3.2.4 Verifying SHA-1 Hash Sums”

The following command line will verify the integrity and authenticity of the installation media (where “d:\” indicates the drive letter where the installation media is mounted and “checksum.xml” indicates a file containing the hash sum catalog copied from the location immediately below this command line):

```
fciv -v -bp d:\ -sha1 -xml checksum.xml
```

```
<?xml version="1.0" encoding="utf-8" ?>
```

```
<FCIV>
<FILE_ENTRY>
  <name>autorun.inf</name>
  <SHA1>n5LfHgFxxn+xm7kpEKiudKWE0i4=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
  <name>boot\bcd</name>
  <SHA1>rSstZ/Uhuwd8X9Bi4Li9MIKWaTA=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
  <name>boot\boot.sdi</name>
  <SHA1>uwJc7coHiHkWxLfl+npkHtPjDBQ=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
  <name>boot\bootfix.bin</name>
  <SHA1>ICHJj4Gxd9F1Q+vTQASJEYP6PdQ=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
  <name>boot\bootsect.exe</name>
  <SHA1>OVR1QBgdIs8wbsUxN+2xnzeN+bk=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
  <name>boot\en-us\bootsect.exe.mui</name>
  <SHA1>cQDpIj+k0Ys6dsh72bBv7nZRmso=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
  <name>boot\etfsboot.com</name>
  <SHA1>YjE+xz84HAUvJRPKYnnPtRB+mMA=</SHA1>
```



```
</FILE_ENTRY>
<FILE_ENTRY>
  <name>boot\fonts\chs_boot.ttf</name>
  <SHA1>A616raF6ck+pt7KSbZkCb3tnMAg=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
  <name>boot\fonts\cht_boot.ttf</name>
  <SHA1>goD/PHMOPS9iZAqFmsdSE155H7w=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
  <name>boot\fonts\jpn_boot.ttf</name>
  <SHA1>KrazMdef07ycmbEeiu3XdqRCPsI=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
  <name>boot\fonts\kor_boot.ttf</name>
  <SHA1>U2kaNmYG6ala0G86t0WWIdkATTw=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
  <name>boot\fonts\wgl4_boot.ttf</name>
  <SHA1>i0vPxQSnY/1H+4XUm/I8HGjFvPw=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
  <name>boot\memtest.efi</name>
  <SHA1>s/oXm6rKDBucr75LUMXtpbMkh3Q=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
  <name>boot\memtest.exe</name>
  <SHA1>eWCjMqdNK9ruhmaIofrn59ESPvc=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
  <name>bootmgr</name>
  <SHA1>kAiJFV8uly2Cc5xCKkTYk648aJQ=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
  <name>bootmgr.efi</name>
  <SHA1>eBQ9jzUbtFTWv5+KLLqndeerjXs=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
  <name>efi\microsoft\boot\bcd</name>
  <SHA1>svoSOTORef6etTCwBDq6Rg4cj3A=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
  <name>efi\microsoft\boot\cdboot.efi</name>
  <SHA1>ETMbm+JxJCjEZ2NmOSYuuJEytSo=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
  <name>efi\microsoft\boot\cdboot_noprompt.efi</name>
  <SHA1>R/+iWXcIHg+ul+71NJLdsqfW5EY=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
  <name>efi\microsoft\boot\efisys.bin</name>
  <SHA1>+88ilp9Q6vMQQj14FP5JBRaBykE=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
  <name>efi\microsoft\boot\efisys_noprompt.bin</name>
  <SHA1>Tvd7usV2VA8UIEx2yEL7dWPqJp8=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
  <name>efi\microsoft\boot\fonts\chs_boot.ttf</name>
  <SHA1>A616raF6ck+pt7KSbZkCb3tnMAg=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
```

```
<name>efi\microsoft\boot\fonts\cht_boot.ttf</name>
<SHA1>goD/PHMOPS9iZAqFmsdSE155H7w=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
  <name>efi\microsoft\boot\fonts\jpn_boot.ttf</name>
  <SHA1>KrazMdef07ycmbEeiu3XdqRCPsI=</SHA1>
  </FILE_ENTRY>
<FILE_ENTRY>
  <name>efi\microsoft\boot\fonts\kor_boot.ttf</name>
  <SHA1>U2kaNmYG6ala0G86t0WWIdkATTw=</SHA1>
  </FILE_ENTRY>
<FILE_ENTRY>
  <name>efi\microsoft\boot\fonts\wgl4_boot.ttf</name>
  <SHA1>i0vPxQSnY/1H+4XUm/I8HGjFvPw=</SHA1>
  </FILE_ENTRY>
<FILE_ENTRY>
  <name>setup.exe</name>
  <SHA1>8nMXx8+K03DKMzAfyuPQhpm3oc=</SHA1>
  </FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\actionqueue.dll</name>
  <SHA1>n6dYoLs2qei78ouhlj5eDdP8NFA=</SHA1>
  </FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\admtv3check.dll</name>
  <SHA1>lJzPY68iOh6kH4V4TU7u+IsKACs=</SHA1>
  </FILE_ENTRY>
<FILE_ENTRY>
  <name>sources>alert.gif</name>
  <SHA1>DQlh9veryBnuBiMkFjRuYp9l8Bs=</SHA1>
  </FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\apds.dll</name>
  <SHA1>vdeao+p+TvdfkMkWaan5E9H45cs=</SHA1>
  </FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\apircl.dll</name>
  <SHA1>+Iex7Gwdf55R8D+3JFufggbuM4=</SHA1>
  </FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\appcompat.xsl</name>
  <SHA1>5tfnjGuw3DW/r91KZPwr/9c+FDA=</SHA1>
  </FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\appcompat_bidi.xsl</name>
  <SHA1>qMyvY0aRAPyum5zDFJmleeSBENA=</SHA1>
  </FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\appcompat_detailed.xsl</name>
  <SHA1>SwcynBeG9eFhor6C0gNgMCL6Aco=</SHA1>
  </FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\appcompat_detailed_bidi.xsl</name>
  <SHA1>MreleUcWbP4z9Bj8fnm6rH/t/38=</SHA1>
  </FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\appcompat_detailed_bidi_txt.xsl</name>
  <SHA1>AV1gH0IZLDr5ddWtabTRLtlbKJw=</SHA1>
  </FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\appcompat_detailed_txt.xsl</name>
  <SHA1>Yc4eksJX8dDkwx2dAnMFrLUWfSk=</SHA1>
```

```
</FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\apss.dll</name>
  <SHA1>07YNSL36fkfzseQFuolT25EKhwQ=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\arunimg.dll</name>
  <SHA1>Hqq1HWnnnZ5DaHEBLmq44BNDYDM=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\arunres.dll</name>
  <SHA1>RdkIb4m07V+HusIeRUk1KlvvIwY=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\autorun.dll</name>
  <SHA1>3IzeMophvxvtGUL9s1Nc/1XkdL0=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\background_svr.bmp</name>
  <SHA1>trJBa5YKSnuZVhowa6GvYIYYA4k=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\boot.wim</name>
  <SHA1>Py/gyCqsaOeeEe6yAwXvUM2TUx4=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\cbsscore.dll</name>
  <SHA1>0vSQwDnYOVuYMOq1ZJPoYMiR0mU=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\cbssmsg.dll</name>
  <SHA1>mORCLwMQtbdfGVwhDlx32UnUuDo=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\cdplib.mof</name>
  <SHA1>MwtctZZRrMzcGngOTx4WMK9MuFk=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\cdplibuninstall.mof</name>
  <SHA1>P7QNz56CsSSBI4WnYuJ4EojmnWg=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\cmiadapter.dll</name>
  <SHA1>Hvnkf+Tp/CdEVAadv49+c5yEh+A=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\cmisetup.dll</name>
  <SHA1>UOy3nhU2gbP7f/RtnUv0LdWCtag=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\cmitrust.dll</name>
  <SHA1>6xmILadfniy+/JZXixobARGES4s=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\cmiv2.dll</name>
  <SHA1>5pa6ndJYc3OoxCf1olZj09g9xq8=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\cntrtextinstaller.dll</name>
  <SHA1>ArJa4MwaAqp/rZBJ9oddxTkqrc=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
```

```
<name>sources\compatprovider.dll</name>
<SHA1>11uTn9w3bayycia/zWOTnhV0I5Y=</SHA1>
</FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\compliance.ini</name>
  <SHA1>Ryga/4UDC47ztKbj3WMKGm72zHw=</SHA1>
  </FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\compres.dll</name>
  <SHA1>KRDS1ifJfgtKrSS7466gFAnRLwc=</SHA1>
  </FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\cryptosetup.dll</name>
  <SHA1>JqAVjhSffBdcib1qt1785QdcA08=</SHA1>
  </FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\cversion.ini</name>
  <SHA1>Ad7zhIUs6/mdOaecjg3oHFniGOE=</SHA1>
  </FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\diager.dll</name>
  <SHA1>IZi6RGb0Yn0n5QwyrHVUmbBbMEU=</SHA1>
  </FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\diagnostic.dll</name>
  <SHA1>/9oR8UMZ+4n4noS390ZRHp4LFUU=</SHA1>
  </FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\dism.exe</name>
  <SHA1>11fY51uqd/m3Byuz47ieVdy5Uc=</SHA1>
  </FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\dismcore.dll</name>
  <SHA1>Cbwu+vIuyINvE6S3BBahQTHRzEg=</SHA1>
  </FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\dismcoreps.dll</name>
  <SHA1>bqGsZD5JY3onFg5Znq7xgF5USrs=</SHA1>
  </FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\dismhost.exe</name>
  <SHA1>TsXcvUOtOwF4smpXuKLOHjOkjfU=</SHA1>
  </FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\dismprov.dll</name>
  <SHA1>gIQHoxUKtEm8rpDFD06SDQNvidg=</SHA1>
  </FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\dlmanifests\accessibilitycpl-dl.man</name>
  <SHA1>8bpuBoH1Z2aLF//pRFbOZYC5/eU=</SHA1>
  </FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\dlmanifests\activedirectory-webservices-dl.man</name>
  <SHA1>CW0SLHZrCBXR3gnuemhTDLaY8bA=</SHA1>
  </FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\dlmanifests\activedirectory-wmireplicationprovider-dl.man</name>
  <SHA1>s4Mao+KazAUz3z2rfzkfqp/cieM=</SHA1>
  </FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\dlmanifests\adfs-federation-service-dl.man</name>
  <SHA1>ei1/MhIloqkZbx7xbYXH/+sjKAo=</SHA1>
```

```

</FILE_ENTRY>
<FILE_ENTRY>
  <name>sources\dlmanifests\adfs-federationserviceproxy-dl.man</name>
  <SHA1>qE7aA7TRqt8SRsrPPOnwt400EFI=</SHA1>
</FILE_ENTRY>
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8 Appendix: Installing the IT environment

The additional information in this appendix augments configuration guidance that may not be described at sufficient levels of detail for some readers of the *Windows 7 – Windows Server 2008 R2 Common Criteria Supplemental Admin Guidance* document. The hints provided here are not intended to constrain or dictate precisely how the installation details must be followed to achieve the expected results.

It is assumed these instructions are being applied on servers in the IT environment running full installations of Windows Server 2008 R2 (in other words, not the Server Core installation(s) running the Hyper-V role).

Section 5.2 Hardening Windows Server 2008 R2

Prior to installing the Microsoft Security Compliance Manager (SCM) described by the [Windows Server 2008 R2 Security Baseline](#) TechNet article, its dependency on the Microsoft .Net Framework 3.5.1 feature must be met. This feature can be enabled in the Server Manager by taking the default install options (e.g. this also installs Web Server (IIS) and Role Services).

If installing SCM on a domain controller², after the install completes configure the “SQL Server (MICROSOFTSCM)” service account to use LocalSystem logon account with the following commands (that also include the required steps to restart the service after the logon account has been changed):

```
sc config MSSQL$MICROSOFTSCM obj= "LocalSystem"  
sc stop MSSQL$MICROSOFTSCM  
sc start MSSQL$MICROSOFTSCM
```

After starting the SCM tool, conduct the following steps:

- Download the “Windows Server 2008 R2 Security Baseline 1.0 Wed, 6 Oct 2010” baseline from “Tools!Check for Baselines” menu
- Import the “Windows Server 2008 R2 Security Baseline 1.0 Wed, 6 Oct 2010” baseline into SCM
- Create a GPO backup file of desired security baseline (e.g. the “WS08R2-Hyper-V 1.0” baseline)

These steps will create a GPO backup file that must be imported into the default domain policy in order to be deployed throughout the IT environment, including to any Server Core installations running the Hyper-V role that are domain-joined³ to the given domain controller hosting the default domain policy.

² This step is only needed on a domain controller – SCM is **not required** to be installed on the domain controller.

If your IT environment does not already have a domain controller for importing the GP backup, Active Directory Services role can be enabled in order to create a domain controller by the following steps:

- While logged in as administrator on the given target server, launch a command shell.
- Enter the command `dcpromo`.
- When the Active Directory Domain Services Installation Wizard starts, click the check box for “Use advanced mode installation” and click Next.
- In the Choose a Deployment Configuration dialog box, select the radio button for Create a new domain in a new forest, and click Next.
- Enter the fully qualified domain name (FQDN) of the new forest root domain.
- The dialog box for Domain NetBIOS Name will be displayed. By default, the first part of the FQDN will be displayed in a test box for the Domain NetBIOS name. Click Next.
- The Set Forest Functional Level dialog box is displayed, with Windows Server 2003 as the Forest functional level displayed in a text box. As noted in Section 3.2, the initial functional level must be below Windows Server 2008 R2. Keep the value of Windows Server 2003 displayed in the dialog box and click Next.
- The Set Domain Functional Level dialog box is displayed, with Windows Server 2003 as the Domain functional level displayed in a text box. The initial functional level must be below Windows Server 2008 R2 (to support configuration of the File Replication Server). Keep the value of Windows Server 2003 displayed in the dialog box and click Next.
- The Additional Domain Controller Options dialog box may be displayed. If DNS has not yet been installed on this server, select the check box for DNS server and click next.
- A dialog box describing that delegation for the DNS server cannot be created. This is informational and may be ignored. Click yes to continue.
- A dialog box for Location for Database, Log Files, and SYSVOL is displayed with default values populated. Keep the default values in place and click next.
- A dialog box for Directory Services Restore Mode Administrator Password is displayed with text boxes for entering the password and confirming the password. Enter and confirm a password in this dialog box and click next.
- The Summary dialog box is displayed showing a review of selections made relative to configuring the Domain Controller. Review the summary of selections and if they look correct, click next.
- A status box is displayed indicating that the Active Directory Domain Services are being configured, noting that the process can take from a few minutes to several hours depending on the environment and options selected. Wait until the installation completes.
- The Completing the Active Directory Domain Services Installation Wizard dialog box is displayed with the results of the installation. Click Finish.
- A dialog box is displayed indicating that the computer must be restarted. Click Restart Now.
- Wait for the computer to restart, then log in as the domain administrator.

³ The following command can be used to join a Server Core server to its domain:

```
netdom join <ComputerName> /domain:<DomainName> /userd:<UserName> /passwordd:*
```

- The domain/forest functional level can now be increased to Windows Server 2008 R2. To do this, run the Server Manager, expand the Roles listing, expand the Active Directory Domain Services listing, expand the Active Directory Users and Computers listing, and right click on the selected FQDN. Select the Raise domain functional level option.
- The Raise domain functional level dialog box is displayed. It is likely that Windows Server 2008 will be displayed. Use the drop down arrow beside the text box to select Windows Server 2008 R2. Click Raise.
- A warning message is displayed indicating that once the level is raised, it may not be possible to reverse it. Click OK.
- A dialog box should be displayed indicating the functional level was raised successfully. Click OK.
- Close the Server Manager window.

The GPO backup file created by the SCM steps indicated above is imported into the default domain policy on the domain controller by the following steps:

- Start Group Policy Management Console
- Import the GPO backup using “Import Settings” on the “Default Domain Policy” context menu

5.3 Additional Configuration

Apply steps (1) through (5) as instructed, with the exception of step (1d) where “VSG SSLF Domain Policy” should be replaced with the imported default domain policy name discussed above.