POC Installation Requirements STEALTHbits® Credential & Data Security Assessment

This document describes the recommended configuration of the servers needed to install the StealthAUDIT® Management Platform for a proof of concept evaluation with the purpose of using the STEALTHbits Credential & Data Security Assessment. This may not be a recommended configuration for a production deployment of StealthAUDIT.

Required Architecture Overview

The following servers are required for installation of the product:

- → *StealthAUDIT Management Platform Console Server* – This server is where the StealthAUDIT application (v8.1.0.163+) is installed
  - ☐ *Access Information Center (AIC)* – This application is typically installed on the StealthAUDIT Console server and is an interactive dashboard for exploring permissions, activity, and sensitive data on entitlements
  - ☐ *StealthAUDIT Sensitive Data Discovery Add-On* – This application is installed on the StealthAUDIT Console server as an add-on enabling Sensitive Data criteria for scans
- → *SQL Server®* – StealthAUDIT is a data-intensive application, therefore we recommend a well-provisioned, dedicated SQL Server. This version must be SQL Server 2008 or newer.
- → *Target Server(s)* – The target environment includes all servers from which StealthAUDIT collects data

Server Requirements

StealthAUDIT Management Platform Console & Access Information Center

The server requirements for StealthAUDIT and the AIC are:

- → Windows Server 2008 R2+ / US English Language installation
  - ☐ 8+ GB RAM
  - ☐ 4+ CPU Cores
  - ☐ 140 GB Disk Space

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- → Internet Information Services (IIS) components installed as outlined in the Necessary IIS Components list
- → .NET Framework 4.5 installed
- → SQL Server Native Client installed
- → 100/1000 Mb Network Connection
- → Microsoft Silverlight installed (*Needed on client browser for viewing the AIC after installation*)
- → .NET Framework 3.5 installed (*For Sensitive Data Discovery only*)

Permissions

The following permissions are required to install and use the application:

- → Membership in the local Administrators group

NOTE: Role based access can be enabled for a least privilege user model.

Additional Considerations

The following are recommended for the StealthAUDIT Console server:

- → SQL Server Management Studio installed (O*ptional*)
- → Disable "System cryptography: Use FIPS compliant algorithms for encryption, hashing, and signing" Policy
- → Font "arial-unicode-ms" installed (*Needed for report Unicode character support*)
- → Reducing latency between the scanning server and the target device is highly recommended, especially if targeting NetApp® Data ONTAP® Cluster-Mode device(s)

  NOTE: Additional hardware may be required, especially if the target Network Attached Storage (NAS) devices are not collocated with the StealthAUDIT Console server.

SQL Server

The server requirements for the SQL Server database are:

- → SQL Server 2008+ / US English Language Instance installation
  - ☐ 16+ GB RAM
  - ☐ 8+ CPU Cores
  - ☐ 4 Disks:
    - o Operating System – 160 GB
    - o SQL Database – 380 GB

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- SQL Transaction Log – 180 GB
- SQL TEMP DB – 360 GB

Additional Requirements

The following are additional requirements for the SQL Server:

- → *For File-level Auditing* – SQL Server standard edition or higher required
- → All SQL Server databases configured to use 'Simple Recovery Model'

Permissions

The following permissions are required on the database are:

- → Database Owner
- → Provisioned to use Default Schema of 'dbo'

Additional Considerations

The following are recommended for the SQL Server:

- → The standard Autogrowth setting can cause StealthAUDIT job delays. Database growth is computationally intensive. While SQL Server is growing the database, no other activity can occur. If this option is employed, please speak with a STEALTHbits engineer to determine an appropriate setting for best performance.
- → Microsoft SQL Server supports TLS 1.2, which requires the StealthAUDIT Console server to have SQL Server Native Client installed.

Target Servers (To Be Scanned)

The server requirements are dependent upon the type of host being targeted:

- → Active Directory Domain Controllers:
  - ☐ .NET Framework 4.5 installed
  - ☐ *WINRM Service* installed
- → File System Target Hosts:
  - ☐ Enable Remote Registry Service (*For Applet deployment, Activity Auditing , or when targeting Windows File System Clusters*)
  - ☐ .NET Framework 3.5 (*For Sensitive Data Discovery when running the File System Solution in Applet only*)

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Additional Requirements for File System Hosts

File system hosts have additional requirements which are dependent upon the type of file system being targeted and the scope of the auditing (permissions/access, activity, sensitive data discovery). See the following configuration guides for these requirements.

- *Windows File System Server Configuration Guide*
- *NetApp Data ONTAP Cluster-Mode Device Configuration Guide*
- *NetApp Data ONTAP 7-Mode Device Configuration Guide*
- *EMC Isilon Device Configuration Guide*
- *EMC Celerra, VNX, VNXe, VMAX3, or Unity Device Configuration Guide*
- *Hitachi Device Configuration Guide*

Permissions

Permissions required for auditing are dependent upon the type of host being targeted:

- *Active Directory Domain Controllers* – Membership in the Domain Administrator group in the target domain
- *File system hosts* – Permissions are dependent upon the type of file system being targeted and the scope of the auditing (permissions/access, activity, sensitive data discovery). See the *File System Permissions* document for a list of permissions and port requirements. The information is also included in the configuration guides referenced in the Additional Requirements section.
- *Workstations and Servers* – Membership in the local Administrators group on the target host

Virtual Environment Recommendations

While physical machines are always preferred, we fully support the use of virtual machines. This section contains special considerations when leveraging virtualization.

- VMWare® ESX® – If using ESX, the following specifications are recommended:
  - ☐ ESX 4.0 / ESXi™ 4.1 or higher
  - ☐ Virtual Hardware 7 or higher
  - ☐ All Virtual Machines installed on the same datacenter / rack
- Virtual Storage Consideration:
  - ☐ In the server requirements, when separate disks are required for the servers, that should translate to separate data stores on the VM host machine.

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Software Downloads & Documentation

Download the following software binaries prior to implementation (license key will be required for installation):

- → StealthAUDIT Management Platform (v8.1.0.163+) – https://downloads.stealthbits.com/access/files/SAHotFixes/SMP-CU/8.1/SMP-CU.zip
- → Access Information Center – https://downloads.stealthbits.com/access/files/SAHotFixes/SMP-CU/AIC/8.1/AccessInformationCenter.msi
- → Sensitive Data Discovery Add-on – https://downloads.stealthbits.com/access/files/SAHotFixes/SMP-CU/SDD/8.1/SensitiveDataAddonFSAA.msi

Documentation for the products can be accessed on the STEALTHbits Website (links require website login):

- → StealthAUDIT Management Platform Documentation
- → Access Information Center Documentation

Readiness Checklist

Please follow this checklist to ensure all required components have been installed before the implementation work session.

CHECKLIST	
	Windows console meeting StealthAUDIT & AIC system requirements (**as specified**) → Windows Server 2008 R2+ / US English Language Installation → IIS / .NET Framework 4.5 (**see the Necessary IIS Components section**) → .NET Framework 3.5 (**Sensitive Data Discovery only**) → Appropriate Permissions
	SQL Server 2008+ database meeting system requirements (**as specified**) → US English Language Instance → Simple Recovery Model → Appropriate Permissions → For Activity Auditing: SQL Server Enterprise Edition
	Disable User Access Control (**Recommended**)
	Turn off Internet Explorer Advanced Security for Administrators (**Recommended**)
	SQL Server Native Client installed on the StealthAUDIT Console server
	Microsoft Silverlight installed on client browser for viewing the AIC after installation (**AIC only**)
	SQL Server Management Studio installed on the StealthAUDIT Console server (**Optional**)

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	.NET Framework 3.5 installed on targeted servers in order to run applet scans (**Sensitive Data Discovery only**)
	Account with appropriate permissions to targeted servers (**as specified**)
	Appropriate components and License Key downloaded onto software console
	Sign up for a website account at www.stealthbits.com

Necessary IIS Components

The following Internet Information Services (IIS) components are required for the AIC. The following lists of IIS components are provided for a Windows 2016, a Windows 2012+, and a Windows 2008 R2 platforms. See the Appendix of the *StealthAUDIT Installation Guide* for additional information.

Windows 2016	Windows 2012+	Windows 2008 R2
Server Roles → Web Server (IIS) ☐ Web Server ○ Common HTTP Features • HTTP Redirection ○ Health and Diagnostics • Request Monitor ○ Performance • Dynamic Content Compression ○ Security • Basic Authentication • Windows Authentication ☐ Management Tools ○ IIS 6 Management Compatibility • IIS 6 Management Console • IIS 6 Scripting Tools **Features** → .NET Framework 4.6 Features ☐ WCF Services ○ HTTP Activation	**Server Roles** → Application Server ☐ Web Server (IIS) Support → Web Server (IIS) ☐ Web Server ☐ Management Tools ○ IIS 6 Management Compatibility • IIS 6 Management Console • IIS 6 Scripting Tools **Features** → .NET Framework 4.5 Features ☐ WCF Services ○ HTTP Activation	→ Roles ☐ Application Server ☐ Web Server (IIS) → Application Server > Role Services ☐ Web Server (IIS) Support → Web Server Role (IIS) > Role Services ☐ Management Tools > IIS 6 Management Compatibility

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The StealthAUDIT Report Index can be displayed through either an embedded website, via the STEALTHbits Web Console, or through an IIS hosted website. If using the IIS hosted website to view the StealthAUDIT Report Index, the following IIS components are required.

NOTE: These components are also included in the AIC requirements. Therefore, configuring IIS for the AIC will meet these requirements.

Windows 2016	Windows 2012+	Windows 2008 R2
Server Roles → Web Server (IIS) ☐ Web Server ☐ Management Tools ○ IIS 6 Management Compatibility • IIS 6 Management Console • IIS 6 Scripting Tools	**Server Roles** → Web Server (IIS) ☐ Web Server ☐ Management Tools ○ IIS 6 Management Compatibility • IIS 6 Management Console • IIS 6 Scripting Tools	→ Roles ☐ Web Server (IIS) → Web Server Role (IIS) > Role Services ☐ Management Tools > IIS 6 Management Compatibility

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