

IBM Internet Security Systems

# IBM RealSecure® Server Sensor System Requirements

## Contents of This Document

This document describes the system requirements for the current versions of IBM RealSecure® Server Sensor components.

## Overview of IBM RealSecure Components

In this document you will find the System Requirements for:

- IBM RealSecure Server Sensor 7.0 for Windows
- IBM RealSecure Server Sensor 7.0 for Solaris
- IBM RealSecure Server Sensor 7.0 for HP-UX
- IBM RealSecure Server Sensor 7.0 for AIX

## Overview: IBM RealSecure Server Sensor

Server Sensor monitors activity on an individual host, using information in the operating system's log files to determine if an intruder has gained access to that host and to identify unauthorized activity on the system. Server Sensor is also capable of monitoring network traffic, and protecting the server via intelligent alerting or blocking of malicious activity.

IBM RealSecure Server Sensor is available for:

- Windows
- Solaris
- HP-UX
- AIX

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## IBM RealSecure Server Sensor 7.0 for Windows Service Release 4.4

<b>Minimum Processor</b>	Pentium II 400 MHz or better
<b>Operating System</b>	<ul style="list-style-type: none"><li>• Microsoft Windows Server 2003 (SP1, R2, SP2)<ul style="list-style-type: none"><li>• Standard Edition</li><li>• Web Edition</li><li>• Enterprise Edition</li></ul></li></ul> <p><b>Note:</b> Windows Server 2003 Service Pack 1 and R2 are supported with Server Sensor 7.0 Service Release 4.3 or higher. Windows Server 2003 Service Pack 2 is supported by Server Sensor 7.0 Service Release 4.4 <u>only</u>.</p> <ul style="list-style-type: none"><li>• Microsoft Windows 2000 with Service Pack 4<ul style="list-style-type: none"><li>• Server</li><li>• Advanced Server</li></ul></li></ul> <p>Windows NT 4.0 is <b><u>NOT</u></b> supported by Service Release 4.4.</p> <p>It is highly recommended that you install RealSecure on an NTFS formatted partition. FAT and FAT32 partitions do not allow for the system to be hardened properly.</p>
<b>Network Connection</b>	TCP/IP network connection over 10/100/1000 Mbps Ethernet
<b>Web Server support</b>	HTTPS IIS v5.0, IIS v6.0 (SSL Inspection) HTTP IIS v5.0, v6.0
<b>Microsoft ISA Server</b>	ISS has certified Server Sensor for co-existence with ISA Server 2004 and 2006
<b>Clustering/Load Balancing</b>	Microsoft 2-node and 4-node clusters, Microsoft Network Load Balancing
<b>VMware Support</b>	<p>The following platforms are supported as guest operating systems on VMware Server, ESX 2.5.x, ESX 3.x:</p> <ul style="list-style-type: none"><li>• Windows Server 2003 Standard Edition SP1, R2, SP2</li><li>• Windows Server 2003 Enterprise Edition SP1, R2, SP2</li><li>• Windows 2000 Server SP4</li><li>• Windows 2000 Advanced Server SP4</li></ul> <p><b>Note:</b> VMware is supported with Server Sensor 7.0 Service Releases 4.3 and 4.4 <u>only</u>.</p>
<b>Minimum Memory</b>	128MB <u>in addition</u> to memory required by other applications
<b>Disk Space</b>	180MB
<b>Dedicated System?</b>	No

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## IBM RealSecure Server Sensor 7.0 for Windows Service Release 4.3

<b>Minimum Processor</b>	Pentium II 400 MHz or better
<b>Operating System</b>	<ul style="list-style-type: none"><li>• Microsoft Windows Server 2003 (SP1, R2)<ul style="list-style-type: none"><li>• Standard Edition</li><li>• Web Edition</li><li>• Enterprise Edition</li></ul></li></ul> <p><b>Note:</b> Windows Server 2003 Service Pack 1 and R2 are supported with Server Sensor 7.0 Service Release 4.3 or higher. Windows Server 2003 Service Pack 2 is supported by Server Sensor 7.0 Service Release 4.4 <u>only</u>.</p> <ul style="list-style-type: none"><li>• Microsoft Windows 2000 with Service Pack 4<ul style="list-style-type: none"><li>• Server</li><li>• Advanced Server</li></ul></li><li>• Microsoft Windows NT 4.0 with Service Pack 6a<ul style="list-style-type: none"><li>• Server</li><li>• Enterprise Server</li></ul></li></ul> <p><b>Note:</b> Windows NT 4.0 Terminal Server Edition is <b><u>NOT</u></b> supported.</p> <p>Windows NT 4.0 is <b><u>NOT</u></b> supported by Service Release 4.4.</p> <p>It is highly recommended that you install RealSecure on an NTFS formatted partition. FAT and FAT32 partitions do not allow for the system to be hardened properly.</p>
<b>Network Connection</b>	TCP/IP network connection over 10/100/1000 Mbps Ethernet
<b>Web Server support</b>	HTTPS IIS v5.0 (SSL Inspection) HTTP IIS v 4.0, v5.0, v6.0
<b>Microsoft ISA Server</b>	ISA Server 2004
<b>VMware Support</b>	<p>The following platforms are supported as guest operating systems on VMware GSX 3.1, ESX 2.5.x, ESX 3.x:</p> <ul style="list-style-type: none"><li>• Windows Server 2003 Standard Edition SP1, R2, SP2</li><li>• Windows Server 2003 Enterprise Edition SP1, R2, SP2</li><li>• Windows 2000 Server SP4</li><li>• Windows 2000 Advanced Server SP4</li></ul> <p><b>Note:</b> VMware is supported with Server Sensor 7.0 Service Releases 4.3 and 4.4 <u>only</u>.</p>
<b>Minimum Memory</b>	128MB <u>in addition</u> to memory required by other applications
<b>Disk Space</b>	180MB
<b>Dedicated System?</b>	No

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## IBM RealSecure Server Sensor 7.0 for Solaris Service Release 4.3

<b>Operating System</b>	Sun Solaris 8 Sun Solaris 9 Sun Solaris 10 (Supported by Service Release 4.3 <u>only</u> )
<b>Hardware</b>	Server Sensor supports SPARC platforms <u>only</u> .
<b>Solaris Container Support</b>	Server Sensor 7.0 for Solaris Service Release 4.3 supports installation in Global and Non-Global Zones. The Network Monitoring component can <u>only</u> be installed in the Global Zone.
<b>Network Connection</b>	TCP/IP network connection over 10/100/1000 Mbps Ethernet
<b>Web Server support</b>	HTTPS and HTTP: Apache 1.3.x (EAPI enabled) * Apache 2.0.x (EAPI either enabled or disabled)  <i>* ISS will attempt to support environments that package the Apache web server in the above configuration provide that they adhere to the same behaviors and interfaces that are provided by native Apache. ISS will make determination on whether the interfaces provided are considered comparable.</i>
<b>Minimum Memory</b>	256MB <u>in addition</u> to memory required by other applications
<b>Disk Space</b>	75MB
<b>Dedicated System?</b>	No

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## IBM RealSecure Server Sensor 7.0 for Solaris Service Release 4.3

### Prerequisites

- Server Sensor for Solaris requires that semaphores be configured into the Solaris kernel. The recommended number of semaphores for Server Sensor is five.
- The following are patch recommendations. Solaris patches are available from <http://sunsolve.sun.com/>

#### SOLARIS 8

##### Required Patches

- *None at this time*

##### Recommended Patches

- BSM Patch 109007-12 or 109007-13
- Patch 108875-09

#### SOLARIS 9

##### Required Patches

- *None at this time*

##### Recommended Patches

- *None at this time*

#### SOLARIS 10

##### Required Patches

- *None at this time*

##### Recommended Patches

- *None at this time*

<b>IBM RealSecure Server Sensor 7.0 for HP-UX Service Release 4.1</b>	
<b>Operating System</b>	HP-UX 11.00 HP-UX 11.11 HP-UX 11.23 (PA-RISC only)
<b>Network Connection</b>	TCP/IP network connection over 10/100/1000 Mbps Ethernet
<b>Processor</b>	PA-RISC 8600 440Mhz or better
<b>Minimum Memory</b>	256MB <u>in addition</u> to memory required by other applications, and a minimum of 512Mb in total. Swap space 1GB.
<b>Disk Space</b>	150MB
<b>SSL monitoring</b>	Server Sensor does not currently support the monitoring of SSL-encrypted HTTP traffic on HP-UX
<b>Dedicated System?</b>	No
<b>Prerequisites</b>	<ul style="list-style-type: none"> <li>The host sensors require the following patches, available from <a href="http://www.hp.com/">http://www.hp.com/</a> <ul style="list-style-type: none"> <li><u>Required Patches</u> <ul style="list-style-type: none"> <li>HP 11.00 users should have installed a recent HWE e.g. December 2002 (B.11.00.0212.4) and QPK package bundles e.g. September 2002 (B.11.00.58.5).</li> <li>HP11.11 users should have installed a recent HWE e.g. December 2002 (B.11.11.0212.4) and QPK package bundles e.g. December 2002 (B.11.11.0212.4).</li> </ul> </li> </ul> </li> <li>The swap space must be 1GB or higher</li> <li>There following kernel tunables must be set: <ul style="list-style-type: none"> <li>maxdsiz: 0x10000000 ( 256 Mb ) or higher</li> <li>maxtsiz: 0x10000000 ( 256 Mb ) or higher</li> <li>maxssiz: 0x10000000 ( 256 Mb ) or higher</li> </ul> </li> </ul>

<b>IBM RealSecure Server Sensor 7.0 for IBM AIX Service Release 4.2</b>	
<b>Operating System</b>	AIX 5.2 AIX 5.3 AIX 6.1
<b>Network Connection</b>	TCP/IP network connection over 10/100/1000 Mbps Ethernet
<b>Minimum Memory</b>	128MB <u>in addition</u> to memory required by other applications
<b>Disk Space</b>	75MB to run Installation Source Directory • 50MB for the ServerSensor-AIX-7-0.shar file in /tmp • 65MB for the ServerSensor.pkg - this package is created once the user has agreed to the license agreement in /opt/ISS
<b>AIX 6.1 Workload Partition Support</b>	Server Sensor 7.0 for AIX Service Release 4.2 supports installation in an AIX Workload Partition (WPAR). The Network Monitoring component can <u>only</u> be installed in the Global environment.
<b>SSL monitoring</b>	Server Sensor does not currently support the monitoring of SSL-encrypted HTTP traffic on AIX
<b>Dedicated System?</b>	No
<b>Prerequisites</b>	<u>Required Patches</u> <ul style="list-style-type: none"> <li>• <i>None at this time</i></li> </ul> <u>Recommended Patches</u> <ul style="list-style-type: none"> <li>• <i>None at this time</i></li> </ul>

<b>IBM RealSecure Server Sensor 7.0 for IBM AIX Service Release 4.1</b>	
<b>Operating System</b>	AIX 4.3.3 (Base 7.0 only. SR 4.1 does <u>not</u> support 4.3.3) AIX 5.1 AIX 5.2 AIX 5.3
<b>Network Connection</b>	TCP/IP network connection over 10/100/1000 Mbps Ethernet
<b>Minimum Memory</b>	128MB <u>in addition</u> to memory required by other applications
<b>Disk Space</b>	75MB to run Installation Source Directory • 50MB for the ServerSensor-AIX-7-0.shar file in /tmp • 65MB for the ServerSensor.pkg - this package is created once the user has agreed to the license agreement in /opt/ISS
<b>SSL monitoring</b>	Server Sensor does not currently support the monitoring of SSL-encrypted HTTP traffic on AIX
<b>Dedicated System?</b>	No

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## IBM RealSecure Server Sensor 7.0 for IBM AIX Service Release 4.1

### Prerequisites

### Required Patches

- *None at this time*

### Recommended Patches

- *None at this time*



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### **About IBM Internet Security Systems**

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