

IBM Proventia Server for Linux Intrusion Prevention System (IPS) System Requirements

Contents of This Document

This document describes the system requirements for the current versions of IBM Proventia Server for Linux components.

Overview: Proventia Server for Linux

IBM Proventia® Server Intrusion Prevention System (IPS) for Linux software helps organizations achieve and maintain compliance with regulations that require security against malicious threats which may compromise servers and sensitive data. With Proventia Server IPS, enterprises can protect against data breaches and benefit from capabilities that simplify and support compliance requirements.

Proventia Server for Linux 1.5 (Intel/AMD x86, x86-64)

Minimum Processor

32-bit: Pentium II 600 MHz or better

64-bit: AMD64 or Intel EM64T processors

Operating Systems

32-bit

- Red Hat Enterprise Linux (RHEL) 5.0 BS Updates 3-4
- Red Hat Enterprise Linux (RHEL) 5.0 AP Updates 3-4
- Red Hat Enterprise Linux (RHEL) 4.0 AS Updates 6-8
- Red Hat Enterprise Linux (RHEL) 4.0 ES Updates 6-8
- SuSE Linux Enterprise Server (SLES) 10 SP2 & SP3
- SuSE Linux Enterprise Server (SLES) 11

64-bit

- Red Hat Enterprise Linux (RHEL) 5.0 BS Updates 3-4
- Red Hat Enterprise Linux (RHEL) 5.0 AS Updates 3-4
- Red Hat Enterprise Linux (RHEL) 4.0 AS Updates 6-8
- Red Hat Enterprise Linux (RHEL) 4.0 ES Updates 6-8
- SuSE Linux Enterprise Server (SLES) 10 SP2 & SP3
- SuSE Linux Enterprise Server (SLES) 11

Proventia Server for Linux 1.5 (Intel/AMD x86, x86-64)

Kernel Versions (32-bit) *

- Red Hat Enterprise Linux (RHEL) 5.0 BS/AP
 - 2.6.18-128.EL5 (including PAE kernel)
 - 2.6.18-164.EL5 (including PAE kernel)
- Red Hat Enterprise Linux (RHEL) 4.0 AS/ES
 - 2.6.9-67.EL (up, smp, hugemem)
 - 2.6.9-78.EL (up, smp, hugemem)
 - 2.6.9-89.EL (up, smp, hugemem)
- SuSE Linux Enterprise Server (SLES) 10
 - 2.6.16.60-0.21 (default, smp, bigsmp)
 - 2.6.16.60-0.49.3 (default, smp, bigsmp)
- SuSE Linux Enterprise Server (SLES) 11
 - 2.6.27.19-5.1 (default, smp, bigsmp)

Kernel Versions (64-bit) *

- Red Hat Enterprise Linux (RHEL) 5.0 BS/AS
 - 2.6.18-128.EL5
 - 2.6.18-164.EL5
- Red Hat Enterprise Linux (RHEL) 4.0 AS/ES
 - 2.6.9-67.EL (up, smp, largesmp)
 - 2.6.9-78.EL (up, smp, largesmp)
 - 2.6.9-89.EL (up, smp, largesmp)
- SuSE Linux Enterprise Server (SLES) 10
 - 2.6.16.60-0.21 (default, smp)
 - 2.6.16.60-0.49.3 (default, smp)
- SuSE Linux Enterprise Server (SLES) 11
 - 2.6.27.19-5.1 (default, smp)

Buffer Overflow Exploit Prevention (BOEP) Support

32-bit: The 32-bit kernel versions listed above are supported by the BOEP component

64-bit: The BOEP component does not support 64-bit kernels

VMware Guest OS Support

Proventia Server for Linux supports the stated operating systems and kernel versions running in virtual machines on the following VMware platforms:

- ESX 3.5.x
- ESX 4.0

Minimum Memory

256MB in addition to memory required by other applications

Disk Space

On a Single Partitioned machine:

- 200MB of free space required

On multi-partitioned machine:

- 90 MB of free space required in the installation directory partition (default: /opt/ISS)
- 100MB of free space required in /var/tmp partition
- 10 MB of free space required in /usr/sbin partition

Network Connection

TCP/IP network connection over 10/100/1000 Mbps Ethernet

Proventia Server for Linux 1.5 (Intel/AMD x86, x86-64)

Web Servers Supported for SSL Inspection

- Red Hat Enterprise Linux (RHEL) 5.x BS/AP
 - Apache 2.0.x
 - Apache 2.2.x
- Red Hat Enterprise Linux (RHEL) 4.x AS/ES
 - Apache 1.3.x
 - Apache 2.0.x
- SuSE Linux Enterprise Server (SLES) 10 SP2 & SP3
 - Apache 2.0.x
 - Apache 2.2.x
- SuSE Linux Enterprise Server (SLES) 11
 - Apache 2.2.x

NOTE: SSL inspection is NOT available for 64-bit versions of Apache

SELinux Support

Red Hat Enterprise Linux with SELinux enabled is NOT supported.

Prerequisites

Proventia Server requires the following package(s) to be present on the system:

- sharutils
- iptables
- m4 (GNU macro processor)

Additionally, Proventia Server requires the Native POSIX Threading Library (NPTL) threading model

- To verify, run `getconf GNU_LIBPTHREAD_VERSION`. This command should return `NPTL x.x.x`

***Note on Kernel Versions:** The Kernel Version typically only affects the Buffer Overflow Exploit Prevention (BOEP) module. In most cases, newer kernels released by Red Hat and/or Novell will not affect other areas of Proventia Server for Linux functionality. If Customer Support does isolate a compatibility issue with a newer/untested kernel version, the customer will be required to move to a supported Kernel Version.

Proventia Server for Linux 1.5 – Linux on System z (s390x)

Platform	64-bit: z/Architecture
Operating Systems	64-bit <ul style="list-style-type: none">• Red Hat Enterprise Linux (RHEL) 5.0 BS Updates 3-4• Red Hat Enterprise Linux (RHEL) 5.0 AP Updates 3-4• SuSE Linux Enterprise Server (SLES) 10 SP2 & SP3• SuSE Linux Enterprise Server (SLES) 11
Kernel Versions (64-bit) *	<ul style="list-style-type: none">• Red Hat Enterprise Linux (RHEL) 5.0 BS/AP<ul style="list-style-type: none">○ 2.6.18-128.EL5○ 2.6.18-164.EL5• SuSE Linux Enterprise Server (SLES) 10<ul style="list-style-type: none">○ 2.6.16.60-0.21 (default, smp)○ 2.6.16.60-0.49.3 (default, smp)• SuSE Linux Enterprise Server (SLES) 11<ul style="list-style-type: none">○ 2.6.27.19-5.1 (default, smp)
Buffer Overflow Exploit Prevention (BOEP) Support	64-bit: The BOEP component does <u>not</u> support 64-bit kernels
Virtualization Support	z/VM 5.2 or higher
Minimum Memory	256MB in addition to memory required by other applications
Disk Space	On a Single Partitioned machine: <ul style="list-style-type: none">• 200MB of free space required On multi-partitioned machine: <ul style="list-style-type: none">• 90 MB of free space required in the installation directory partition (default: /opt/ISS)• 100MB of free space required in /var/tmp partition• 10 MB of free space required in /usr/sbin partition
Network Connection	TCP/IP network connection over 10/100/1000 Mbps Ethernet
Web Servers Supported for SSL Inspection	SSL inspection is <u>NOT</u> available for Linux on System z
SELinux Support	Red Hat Enterprise Linux with SELinux enabled is <u>NOT</u> supported.
Prerequisites	Proventia Server requires the following package(s) to be present on the system: <ul style="list-style-type: none">• sharutils• iptables• m4 (GNU macro processor) Additionally, Proventia Server requires the Native POSIX Threading Library (NPTL) threading model <ul style="list-style-type: none">• To verify, run <code>`getconf GNU_LIBPTHREAD_VERSION`</code>. This command should return <code>NPTL x.x.x</code>

***Note on Kernel Versions:** The Kernel Version typically only affects the Buffer Overflow Exploit Prevention (BOEP) module. In most cases, newer kernels released by Red Hat and/or Novell will not affect other areas of Proventia Server for Linux functionality. If Customer Support does isolate a compatibility issue with a newer/untested kernel version, the customer will be required to move to a supported Kernel Version.

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