



# Hardware and software requirements



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## Hardware and software requirements

The hardware and software requirements vary according to the type of deployment that you want to set up. Before you install IBM SmartCloud® Analytics - Log Analysis, review the requirements that are listed here.

### Supported operating systems

IBM SmartCloud Analytics - Log Analysis supports both System z® and x86 based hardware in 64-bit mode. In this documentation, operating systems that are installed on System z based hardware are referred to as Linux on System z. Linux operating systems that are installed on x86 based hardware are referred to as Linux on x86-64. The following operating systems are supported on both types of hardware:

- Red Hat Enterprise Linux Server Edition Version 5 or 6
- SUSE Linux Enterprise Server 11 (64 bit)

### Supported browsers

- Mozilla Firefox Enterprise Service Release (ESR) version 24
- Microsoft Internet Explorer 10 and 11
- Google Chrome version 27

**Note:** If you use Internet Explorer 11, the user interface may not render properly or at all. To fix the issue, you need to disable the compatibility lists. For more information about how to do this, see the *Cannot display the UI in Microsoft Internet Explorer 11* topic in the *Troubleshooting Guide*.

### Software requirements

Before you can install IBM SmartCloud Analytics - Log Analysis, ensure that the following Linux components are available:

- KornShell is required for the IBM® Tivoli® Monitoring Log File Agent.
- Python Version 2.4.3 with simplejson module (RHEL v5) or Python Version 2.6.6 to 2.6.8 (RHEL v6. SLES v11)
- Perl Version 5.8.8 or later is required to load sample data
- libstdc++<sup>1</sup>
- compat-libstdc++ or equivalent<sup>1</sup>
- gtk2<sup>1</sup>
- Xpm<sup>1</sup>
- libXtst is required if you want to run the Installation Manager in GUI mode.<sup>1</sup>
- Unzip utility is required to install the Indexing Server.
- Sed utility is required to install the Indexing Server.

<sup>1</sup> For Linux on System z, both the 32-bit and 64-bit versions of these packages are required.

**Tip:** To install the required libraries on Red Hat Enterprise Linux Server Edition, YUM is recommended. On SUSE Linux Enterprise Server 11, YaST is recommended. For more information about installing these libraries and additional

information about setting up your environment, see the *Installing IBM SmartCloud Analytics - Log Analysis* section of the documentation.

You also need to complete the prerequisite tasks, which include disabling the Security Enhanced Linux module. For more information, see Prerequisites

To tune the Linux operating system, ensure that the following resource configuration settings are made:

**Number of concurrent files: 4096**

Use the `ulimit -n` command to change this setting to 4096.

**Virtual memory: Unlimited**

Use the `ulimit -v` command to change this setting to unlimited.

## Hardware requirements

The following hardware requirements are representative of what may be required for an installation of IBM SmartCloud Analytics - Log Analysis. The hardware requirements can change depending on the amount of data that you stream. To identify the correct hardware requirements for your use case, consult the Service Management Connect index that is located: <http://www.ibm.com/developerworks/servicemanagement/iaa/log/index.html>

## Sample configurations for Linux on x86-64

The specifications assume that you install IBM SmartCloud Analytics - Log Analysis and the Indexing Engine component on separate servers. However, this condition can vary depending on your particular hardware and deployment scenario. For example, if your hardware facilitates it, you can install both the IBM SmartCloud Analytics - Log Analysis and Indexing Engine servers on a single server for a Proof of Concept (PoC):

### PoC configuration

The test configuration assumes that you intend to stream about 100 Gigabytes (GB) of data daily and that you plan to retain data for seven days.

IBM SmartCloud Analytics - Log Analysis server:

- Four 2.8 Gigahertz (GHz) core processors
- 16 gigabytes (GB) of RAM
- 60 GB of hard disk space

Indexing Engine server

- Four 2.8 GHz core processors
- 16 GB of RAM
- 1 Terabyte (TB) or more of hard disk space

### Test configuration

The commodity configuration assumes that you intend to stream about 250 GBs of data daily and that you plan to retain data for 15 days.

IBM SmartCloud Analytics - Log Analysis server:

- Eight 2.8 Gigahertz (GHz) core processors
- 64 GB of RAM
- 60 GB of hard disk space

Indexing Engine server

- Eight 2.8 GHz core processors
- 64 GB of RAM
- 4 TBs of hard disk space

#### **Production configuration**

The production configuration assumes that you intend to stream about 500 GBs of data daily and that you plan to retain data for 30 days.

IBM SmartCloud Analytics - Log Analysis server:

- Sixteen 2.8 Gigahertz (GHz) core processors
- 64 GB of RAM
- 60 GB of hard disk space

Indexing Engine server

- Sixteen 2.8 GHz core processors
- 64 GB of RAM
- 16 TB of hard disk space

#### **Sample configuration for Linux on System z**

This configuration assumes that you intend to stream about 10 GB of data daily. It is assumed that data is retained for 10 days. This sample configuration assumes that you install both IBM SmartCloud Analytics - Log Analysis and the Indexing Engine on the same server:

- One Central Processing Unit (CPU)
- 16 GB of RAM
- 150 GB of hard disk space
- IBM zEnterprise® 196 series hardware or better is recommended.