

# System Requirements

## SAS<sup>®</sup> Data Loader 2.3 for Hadoop

SAS Data Loader 2.3 for Hadoop consists of two main areas for system requirements:

- SAS In-Database Technologies for Hadoop
- SAS Data Loader for Hadoop vApp

**Note:** *SAS In-Database Technologies for Hadoop must be installed before the installation of the SAS Data Loader for Hadoop vApp in order for the vApp to communicate successfully with the Hadoop cluster.*

## SAS In-Database Technologies for Hadoop

### *Hadoop Environment*

System requirements for the Hadoop environment are as follows:

- Hadoop distribution:
  - Cloudera CDH 5.2 or 5.3
  - Hortonworks HDP 2.1 or 2.2
  - MapR 4.0.2

For information about Hadoop distribution requirements, see the “SAS 9.4 Support for Hadoop” web page at:

<http://support.sas.com/resources/thirdpartysupport/v94/hadoop/>

- MapReduce2. (MapReduce 1 is not supported.)
- HiveServer2.

**Note:** *If MapR is used, then Apache Hive 13 is required.*

- SQOOP and OOZIE must be enabled in your Hadoop cluster in order to communicate with the DBMS to which SAS Data Loader for Hadoop users need access.

**Note:** *If MapR is used, then OOZIE 4.1 or later is required.*

- JDBC drivers required by the DBMS must be installed on the Hadoop cluster. The JDBC drivers are for the DBMS to which SAS Data Loader for Hadoop users need access.

**Note:** *The version of JDBC driver must be supported by Sqoop.*

Optionally, you may also install and configure Kerberos, which is not supported in combination with MapR.

*Note:* If the Hadoop cluster is secured using Kerberos, then the vApp must be configured for Kerberos.

For more information about configuring Hadoop cluster components, refer to the *SAS 9.4 In-Database Products: Administrator's Guide*.

## Server

### Operating System

AIX, HP IPF, Linux for x64, Oracle Solaris SPARC, Oracle Solaris for x64, Windows 32-bit server or workstation, and Windows for x64 server or workstation.

## SAS Data Loader for Hadoop vApp

### vApp Client Host Environment

The client host for SAS Data Loader 2.3 for Hadoop must meet the following hardware and software requirements:

*Note:* If the Hadoop cluster is secured using Kerberos, then the vApp must be configured for Kerberos.

### Software

SAS Data Loader 2.3 for Hadoop.

### Hardware

- System memory (RAM): Minimum 8 GB, but 16 gigabytes or more is recommended. The SAS Data Loader virtual machine requires at least 4 GB of available memory.
- Disk space: At least 30 GB of free hard-drive space.
- BIOS: Must be enabled for virtualization technology.
- Processors: At least 2 cores (4 logical processors), but 4 core (8 local processors) or more is recommended.

### Operating System

64-bit Windows 7 or later, or Windows Server 2008 R2 or later.

### Hypervisor

- VMware Player Pro version 6 or 7.
- Virtual Network Configuration Network Address Translation (NAT)

### Web Browsers

- Web browsers, without Kerberos security: Windows Internet Explorer 9 or later, Mozilla Firefox 14 or later, or Google Chrome 21 or later.
- Web browsers, with Kerberos security: Mozilla Firefox 14 or later, or Google Chrome 21 or later.

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