

System Requirements

SAS[®] Data Loader 2.4 for Hadoop

SAS Data Loader 2.4 for Hadoop consists of three delivery options:

- SAS Data Loader 2.4 for Hadoop
- SAS Data Loader 2.4 for Hadoop, Cloudera
- SAS Data Loader 2.4 for Hadoop, Hortonworks

SAS Data Loader 2.4 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.*

Hadoop Environment

System requirements for the Hadoop environment are as follows:

- Hadoop distribution:
 - Cloudera - Kerberos and LDAP are supported.
Note: *SAS Data Loader for Hadoop, Cloudera requires the Cloudera manager for installation.*
 - Cloudera CDH 5.2 or 5.3 or 5.4
 - Cloudera 5.3 with optional Apache Spark 1.2 and optional Impala 2.1
 - Cloudera 5.4 with optional Apache Spark 1.3 and optional Impala 2.2
 - Hortonworks - Kerberos is supported.
Note: *SAS Data Loader for Hadoop, Hortonworks requires Ambari for installation.*
 - Hortonworks HDP 2.1 or 2.2 or 2.3
 - Hortonworks 2.2 with optional Apache Spark 1.2
 - Hortonworks 2.3 with optional Apache Spark 1.3
 - MapR - Kerberos is not supported.
 - MapR 4.0.2 or 4.1 or 5.0
 - MapR 4.1 with optional Apache Spark 1.2 and optional Impala 1.4

- MapR 5.0 with optional Apache Spark 1.3 and optional Impala 1.4
- Pivotal HD - Kerberos is supported.
 - Pivotal HD 3.0
 - Pivotal HD 3.0 with optional Apache Spark 1.2
- IBM BigInsights - Kerberos is not supported.
 - IBM BigInsights 4.0 or 4.1
 - IBM BigInsights 4.0 with optional Apache Spark 1.2
 - IBM BigInsights 4.1 with optional Apache Spark 1.2

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.)
- Hive 13 (0.13.0) or Hive 14 (0.14.0) or higher
- 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: Ensure that Oozie 4.0 or higher is installed.

- For SAS Data Loader 2.4 for Hadoop, Cloudera and SAS Data Loader 2.4, Hortonworks: JRE Version 1.7 or higher.
- 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.

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*.

SAS 9.4 M3 Install for SAS In-Database Technologies for Hadoop

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 2.4 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. For details, see the **SAS Data Loader 2.4 for Hadoop: vAPP Deployment Guide**.*

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Software

SAS Data Loader 2.4 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

- For Windows hosts only:
 - VMware Player Pro 7
 - VMware Workstation 12 and VMware Workstation 12 Pro
 - Oracle VM VirtualBox 5

Note: Oracle VM VirtualBox 5 is not supported for SAS Data Loader for Hadoop, Cloudera and SAS Data Loader for Hadoop, Hortonworks.
- Virtual Network Configuration Network Address Translation (NAT)

Web Browsers

- Web browsers, without Kerberos security: Windows Internet Explorer 10 or later, Mozilla Firefox 14 or later, or Google Chrome 21 or later.
- Web browsers, with Kerberos security:
 - MIT client:
 - Mozilla Firefox 14 or later
 - Active Directory with MIT:
 - Google Chrome 21 or later
 - Mozilla Firefox 14 or later