



[Download Apache Spark™](#)

1. Choose a Spark release: **3.3.1 (Oct 25 2022)** ▾
2. Choose a package type: **Pre-built for Apache Hadoop 3.3 and later** ▾
3. Download Spark: [spark-3.3.1-bin-hadoop3.tgz](#)
4. Verify this release using the 3.3.1 [signatures](#), [checksums](#) and [project release KEYS](#) by following these [procedures](#).

Note that Spark 3 is pre-built with Scala 2.12 in general and Spark 3.2+ provides additional pre-built distribution with Scala 2.13.

Link with Spark

Spark artifacts are [hosted in Maven Central](#). You can add a Maven dependency with the following coordinates:

```
groupId: org.apache.spark
artifactId: spark-core_2.12
version: 3.3.1
```

Installing with PyPi

Latest News

Spark 3.2.3 released (Nov 28, 2022)

Spark 3.3.1 released (Oct 25, 2022)

Spark 3.2.2 released (Jul 17, 2022)

Spark 3.3.0 released (Jun 16, 2022)

[Archive](#)



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Built-in Libraries:

SQL and DataFrames

Spark Streaming

MLlib (machine learning)

GraphX (graph)

- SQL and DataFrames
- Spark Streaming
- MLlib (machine learning)
- GraphX (graph)

Papelera

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Carpeta personal

Sublime

Git

arp.txt

```
kali@Kali: ~/Descargas
Archivo Acciones Editar Vista Ayuda
o el directorio

(kali@Kali)-[~]
$ mv Descargas/images/*.jpg ./Imágenes 1 x

(kali@Kali)-[~]
$ cd Descargas

(kali@Kali)-[~/Descargas]
$ ll
total 474944
-rw-r--r-- 1 kali kali 119738468 ago 10 21:56 code-stable-x64-1660113585.tar.gz
drwxr-xr-x 2 kali kali 4096 dic 6 19:03 images
-rw-r--r-- 1 root root 67231500 jul 5 05:23 mysql-workbench-community-dbgsym_8.0.3
0-1ubuntu22.04_amd64.deb
-rw-r--r-- 1 kali kali 299350810 dic 6 18:56 spark-3.3.1-bin-hadoop3.tgz

(kali@Kali)-[~/Descargas]
$ ll
```



To direct input to this virtual machine, press Ctrl+G.

kali@Kali: ~/hadoop

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(kali@Kali)-[~/hadoop]

\$ tar -xzf spark-3.3.1-bin-hadoop3.tgz

spark-3.3.1-bin-hadoop3/

spark-3.3.1-bin-hadoop3/LICENSE

spark-3.3.1-bin-hadoop3/NOTICE

spark-3.3.1-bin-hadoop3/R/

spark-3.3.1-bin-hadoop3/R/lib/

spark-3.3.1-bin-hadoop3/R/lib/SparkR/

spark-3.3.1-bin-hadoop3/R/lib/SparkR/DESCRIPTION

spark-3.3.1-bin-hadoop3/R/lib/SparkR/INDEX

spark-3.3.1-bin-hadoop3/R/lib/SparkR/Meta/

spark-3.3.1-bin-hadoop3/R/lib/SparkR/Meta/Rd.rds

spark-3.3.1-bin-hadoop3/R/lib/SparkR/Meta/features.rds

spark-3.3.1-bin-hadoop3/R/lib/SparkR/Meta/hsearch.rds

spark-3.3.1-bin-hadoop3/R/lib/SparkR/Meta/links.rds

spark-3.3.1-bin-hadoop3/R/lib/SparkR/Meta/nsInfo.rds

spark-3.3.1-bin-hadoop3/R/lib/SparkR/Meta/package.rds

spark-3.3.1-bin-hadoop3/R/lib/SparkR/Meta/vignette.rds

spark-3.3.1-bin-hadoop3/R/lib/SparkR/NAMESPACE

spark-3.3.1-bin-hadoop3/R/lib/SparkR/R/

spark-3.3.1-bin-hadoop3/R/lib/SparkR/R/SparkR

spark-3.3.1-bin-hadoop3/R/lib/SparkR/R/SparkR.rdb

spark-3.3.1-bin-hadoop3/R/lib/SparkR/R/SparkR.rdx

spark-3.3.1-bin-hadoop3/R/lib/SparkR/doc/

spark-3.3.1-bin-hadoop3/R/lib/SparkR/doc/index.html

spark-3.3.1-bin-hadoop3/R/lib/SparkR/doc/sparkr-vignettes.R

spark-3.3.1-bin-hadoop3/R/lib/SparkR/doc/sparkr-vignettes.Rmd

spark-3.3.1-bin-hadoop3/R/lib/SparkR/doc/sparkr-vignettes.html

spark-3.3.1-bin-hadoop3/R/lib/SparkR/help/



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kali@Kali: ~/hadoop

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```
spark-3.3.1-bin-hadoop3/sbin/stop-all.sh
spark-3.3.1-bin-hadoop3/sbin/stop-history-server.sh
spark-3.3.1-bin-hadoop3/sbin/stop-master.sh
spark-3.3.1-bin-hadoop3/sbin/stop-mesos-dispatcher.sh
spark-3.3.1-bin-hadoop3/sbin/stop-mesos-shuffle-service.sh
spark-3.3.1-bin-hadoop3/sbin/stop-slave.sh
spark-3.3.1-bin-hadoop3/sbin/stop-slaves.sh
spark-3.3.1-bin-hadoop3/sbin/stop-thriftserver.sh
spark-3.3.1-bin-hadoop3/sbin/stop-worker.sh
spark-3.3.1-bin-hadoop3/sbin/stop-workers.sh
spark-3.3.1-bin-hadoop3/sbin/workers.sh
spark-3.3.1-bin-hadoop3/yarn/
spark-3.3.1-bin-hadoop3/yarn/spark-3.3.1-yarn-shuffle.jar
```

(kali@Kali)-[~/hadoop]

\$

(kali@Kali)-[~/hadoop]

\$ java -version

Picked up _JAVA_OPTIONS: -Dawt.useSystemAAFontSettings=on -Dswing.aatext=true

openjdk version "11.0.16" 2022-07-19

OpenJDK Runtime Environment (build 11.0.16+8-post-Debian-1)

OpenJDK 64-Bit Server VM (build 11.0.16+8-post-Debian-1, mixed mode, sharing)

(kali@Kali)-[~/hadoop]

\$ python3 --version

Python 3.9.10

(kali@Kali)-[~/hadoop]

\$

Requisitos previos

```
kali@Kali: ~/hadoop/spark-3.3.1-bin-hadoop3
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(kali@Kali)-[~/hadoop]
$ ll
total 292344
drwxr-xr-x 13 kali kali      4096 oct 15 06:32 spark-3.3.1-bin-hadoop3
-rw-r--r--  1 kali kali 299350810 dic  6 18:56 spark-3.3.1-bin-hadoop3.tgz

(kali@Kali)-[~/hadoop]
$ cd spark-3.3.1-bin-hadoop3

(kali@Kali)-[~/hadoop/spark-3.3.1-bin-hadoop3]
$ ll
total 156
drwxr-xr-x 2 kali kali      4096 oct 15 06:32 bin
drwxr-xr-x 2 kali kali      4096 oct 15 06:32 conf
drwxr-xr-x 5 kali kali      4096 oct 15 06:32 data
drwxr-xr-x 4 kali kali      4096 oct 15 06:32 examples
drwxr-xr-x 2 kali kali    20480 oct 15 06:32 jars
drwxr-xr-x 4 kali kali      4096 oct 15 06:32 kubernetes
-rw-r--r-- 1 kali kali    22940 oct 15 06:32 LICENSE
drwxr-xr-x 2 kali kali      4096 oct 15 06:32 licenses
-rw-r--r-- 1 kali kali    57842 oct 15 06:32 NOTICE
drwxr-xr-x 9 kali kali      4096 oct 15 06:32 python
drwxr-xr-x 3 kali kali      4096 oct 15 06:32 R
-rw-r--r-- 1 kali kali     4461 oct 15 06:32 README.md
-rw-r--r-- 1 kali kali       165 oct 15 06:32 RELEASE
drwxr-xr-x 2 kali kali      4096 oct 15 06:32 sbin
drwxr-xr-x 2 kali kali      4096 oct 15 06:32 yarn

(kali@Kali)-[~/hadoop/spark-3.3.1-bin-hadoop3]
$
```


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```
kali@Kali: ~  
Archivo Acciones Editar Vista Ayuda  
drwxr-xr-x 2 kali kali 4096 oct 15 06:32 sbin  
drwxr-xr-x 2 kali kali 4096 oct 15 06:32 yarn  
  
(kali@Kali)-[~/hadoop/spark-3.3.1-bin-hadoop3]  
$  
  
(kali@Kali)-[~/hadoop/spark-3.3.1-bin-hadoop3]  
$  
  
(kali@Kali)-[~/hadoop/spark-3.3.1-bin-hadoop3]  
$  
  
(kali@Kali)-[~/hadoop/spark-3.3.1-bin-hadoop3]  
$ cd ..  
  
(kali@Kali)-[~/hadoop]  
$ cd ..  
  
(kali@Kali)-[~]  
$ readlink -f hadoop/spark-3.3.1-bin-hadoop3/  
/home/kali/hadoop/spark-3.3.1-bin-hadoop3  
  
(kali@Kali)-[~]  
$ export SPARK_HOME=~/.hadoop/spark-3.3.1-bin-hadoop3  
  
(kali@Kali)-[~]  
$ export PATH=$SPARK_HOME/bin:$PATH  
  
(kali@Kali)-[~]  
$ spark-shell
```



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mar 6 dic, 19:32

kali@Kali: ~

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colored GCC warnings and errors

#export GCC_COLORS='error=01;31:warning=01;35:note=01;36:caret=01;32:locus=01:quote=01'

some more ls aliases

alias ll='ls -l'

alias la='ls -A'

alias l='ls -CF'

alias hola='Hola mundo!!!'

Alias definitions.

You may want to put all your additions into a separate file like

~/.bash_aliases, instead of adding them here directly.

See /usr/share/doc/bash-doc/examples in the bash-doc package.

if [-f ~/.bash_aliases]; then

. ~/.bash_aliases

fi

enable programmable completion features (you don't need to enable

this, if it's already enabled in /etc/bash.bashrc and /etc/profile

sources /etc/bash.bashrc).

if ! shopt -oq posix; then

if [-f /usr/share/bash-completion/bash_completion]; then

. /usr/share/bash-completion/bash_completion

elif [-f /etc/bash_completion]; then

. /etc/bash_completion

fi

fi

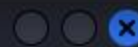
SPARK_HOME=~/.hadoop/spark-3.3.1-bin-hadoop3

PATH=\$SPARK_HOME/bin:\$PATH



To direct input to this virtual machine, press Ctrl+G.

mar 6 dic, 19:32



kali@Kali: ~

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```
124 # colored GCC warnings and errors
125 #export GCC_COLORS='error=01;31:warning=01;35:note=01;36:caret=01;32:locus=01:quote=01'
126
127 # some more ls aliases
128 alias ll='ls -l'
129 alias la='ls -A'
130 alias l='ls -CF'
131 alias hola='Hola mundo!!!'
132 # Alias definitions.
133 # You may want to put all your additions into a separate file like
134 # ~/.bash_aliases, instead of adding them here directly.
135 # See /usr/share/doc/bash-doc/examples in the bash-doc package.
136
137 if [ -f ~/.bash_aliases ]; then
138     . ~/.bash_aliases
139 fi
140
141 # enable programmable completion features (you don't need to enable
142 # this, if it's already enabled in /etc/bash.bashrc and /etc/profile
143 # sources /etc/bash.bashrc).
144 if ! shopt -oq posix; then
145     if [ -f /usr/share/bash-completion/bash_completion ]; then
146         . /usr/share/bash-completion/bash_completion
147     elif [ -f /etc/bash_completion ]; then
148         . /etc/bash_completion
149     fi
150 fi
151 SPARK_HOME=~/.hadoop/spark-3.3.1-bin-hadoop3
152 PATH=$SPARK_HOME/bin:$PATH
:set nu
```



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kali@Kali: ~

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\$ bash

(kali@Kali)-[~]

\$ spark-shell

Picked up _JAVA_OPTIONS: -Dawt.useSystemAAFontSettings=on -Dswing.aatext=true

Picked up _JAVA_OPTIONS: -Dawt.useSystemAAFontSettings=on -Dswing.aatext=true

22/12/06 19:33:19 WARN Utils: Your hostname, Kali resolves to a loopback address: 127.0.1.1; using 192.168.75.128 instead (on interface eth0)

22/12/06 19:33:19 WARN Utils: Set SPARK_LOCAL_IP if you need to bind to another address

Setting default log level to "WARN".

To adjust logging level use sc.setLogLevel(newLevel). For SparkR, use setLogLevel(newLevel).

22/12/06 19:33:40 WARN NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

Spark context Web UI available at http://192.168.75.128:4040

Spark context available as 'sc' (master = local[*], app id = local-1670369623787).

Spark session available as 'spark'.

Welcome to

Spark version 3.3.1

Using Scala version 2.12.15 (OpenJDK 64-Bit Server VM, Java 11.0.16)

Type in expressions to have them evaluated.

Type :help for more information.

scala> 2+2

res0: Int = 4

scala> █