

Cloudera Data Science Workbench Engine Versions and Packaging

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Cloudera Data Science Workbench Engine Versions and Packaging

This topic lists the packages included in the Python and R kernels of the base engine images that ship with each release of Cloudera Data Science Workbench.

Base Engine 13

This section lists the Python and R libraries that ship with engine 13.

Python Libraries in Base Engine 13

Engine 13 ships with both Python versions Python 2.7.18 and 3.6.10. This section lists the libraries that ship with the Python kernels in engine 13.

Items in bold indicate a new version since the last release.

Python3

Library	Version
ipython	5.1.0
requests	2.22.0
simplejson	3.16.10
numpy	1.17.2
pandas	0.25.1
pandas-datareader	0.8.1
py4j	0.10.8.1
matplotlib	3.1.2
seaborn	0.9.0
cython	0.29.13
six	1.15.0

Python2

Library	Version
ipython	5.1.0
requests	2.22.0
simplejson	3.16.10
numpy	1.16.5
pandas	0.24.2
pandas-datareader	0.8.0
py4j	0.10.8.1
futures	3.3.0
matplotlib	2.2.4
seaborn	0.9.0

Library	Version
cython	0.29.13
six	1.15.0

R Libraries in Base Engine 13

Engine 13 ships R version 3.6.3. This section lists the libraries that ship with the R kernel in engine 13.

Items in bold indicate a new version since the last release.

Package	Version
RCurl	1.98.1.2
caTools	1.18.0
svTools	0.9.5
png	0.1.7
RJSONIO	1.3.1.4
ggplot2	3.3.1
cluster	2.1.0
codetools	0.2.16
foreign	0.8.69
dplyr	1.0.0
httr	1.4.1
httpuv	1.5.4
jsonlite	1.6.1
magrittr	1.5
knitr	1.28
purrr	0.3.4
tm	0.7.7
proxy	0.4.24
data.table	1.12.8
stringr	1.4.0
Rook	1.1.1
rJava	0.9.12
devtools	2.3.0

Base Engine 10

This section lists the Python, R, and Scala libraries that ship with engine 10.

Python Libraries in Base Engine 10

Engine 10 ships Python 2.7.17 and 3.6.9. This section lists the libraries that ship with the Python kernels in engine 10.

Items in bold indicate a new version since the last release.

Python3

Library	Version
ipython	5.1.0
requests	2.22.0
Flask	0.12.0
simplejson	3.16.0
numpy	1.17.2
pandas	0.25.1
pandas-datareader	0.8.1
py4j	0.10.8.1
futures	2.1.4
matplotlib	2.0.0
seaborn	0.9.0
Cython	0.29.13
kudu-python	1.2.0

Python2

Library	Version
ipython	5.1.0
requests	2.22.0
Flask	0.12.0
simplejson	3.16.0
numpy	1.16.5
pandas	0.24.2
pandas-datareader	0.8.0
py4j	0.10.8.1
futures	3.3.0
matplotlib	2.0.0
seaborn	0.9.0
Cython	0.29.13
kudu-python	1.2.0

R Libraries in Base Engine 10

Engine 10 ships R version 3.5.1. This section lists the libraries that ship with the R kernel in engine 8.

Items in bold indicate a new version since the last release.

Package	Version
RCurl	1.95.4.12
caTools	1.17.1.3
svTools	0.9.5
png	0.1.7
RJSONIO	1.3.1.3
ggplot2	3.2.1

Package	Version
cluster	2.1.0
codetools	0.2.16
foreign	0.8.73
dplyr	0.8.3
httr	1.4.1
httpuv	1.5.2
jsonlite	1.6
magrittr	1.5
knitr	1.26
purrr	0.3.3
tm	0.7.7
proxy	0.4.23
data.table	1.12.8
stringr	1.4.0
Rook	1.1.1
rJava	0.9.11
devtools	2.2.1

Scala in Base Engine 10

The Scala kernel is based on the [Apache Toree 0.1.x kernel](https://docs.cloudera.com/cds/1.9.0/spark-configuration/topics/cds-spark-and-scala.html). For details on how to add more dependencies to the kernel, see <https://docs.cloudera.com/cds/1.9.0/spark-configuration/topics/cds-spark-and-scala.html>.

Base Engine 8

This section lists the Python, R, and Scala libraries that ship with engine 8.

Python Libraries in Base Engine 8

Engine 8 ships Python 2.7.11 and 3.6.8. This section lists the libraries that ship with the Python kernels in engine 8.

Items in bold indicate a new version since the last release.

Library	Version
ipython	5.1.0
requests	2.13.0
Flask	0.12.0
simplejson	3.10.0
numpy	1.13.3
pandas	0.20.1
pandas-datareader	0.2.1
py4j	0.10.7
futures	2.1.4
matplotlib	2.0.0

Library	Version
seaborn	0.8.0
Cython	0.25.2
kudu-python	1.2.0

R Libraries in Base Engine 8

Engine 8 ships R version 3.5.1. This section lists the libraries that ship with the R kernel in engine 8.

Items in bold indicate a new version since the last release.

Package	Version
RCurl	1.95.4.12
caTools	1.17.1.2
svTools	0.9.5
png	0.1.7
RJSONIO	1.3.1.2
ggplot2	3.1.1
cluster	2.0.9
codetools	0.2.16
foreign	0.8.71
dplyr	0.8.1
httr	1.4.0
httpuv	1.5.1
jsonlite	1.6
magrittr	1.5
knitr	1.23
purrr	0.3.2
tm	0.7.6
proxy	0.4.23
data.table	1.12.2
stringr	1.4.0
Rook	1.1.1
rJava	0.9.11
devtools	2.0.2

Scala in Base Engine 8

The Scala kernel is based on the [Apache Toree 0.1.x kernel](#). For details on how to add more dependencies to the kernel, see [AWS Account Requirements](#).

Base Engine 7

This section lists the Python, R, and Scala libraries that ship with engine 7.

Python Libraries in Base Engine 7

Engine 7 ships Python 2.7.11 and 3.6.1. This section lists the libraries that ship with the Python kernels in engine 7.

Items in bold indicate a new version since the last release.

Library	Version
ipython	5.1.0
requests	2.13.0
Flask	0.12.0
simplejson	3.10.0
numpy	1.12.1
pandas	0.20.1
pandas-datareader	0.2.1
py4j	0.10.7
futures	2.1.4
matplotlib	2.0.0
seaborn	0.8.0
Cython	0.25.2
kudu-python	1.2.0

R Libraries in Base Engine 7

Engine 7 ships R version 3.5.1. This section lists the libraries that ship with the R kernel in engine 7.

Items in bold indicate a new version since the last release.

Package	Version
RCurl	1.95.4.11
caTools	1.17.1.1
svTools	0.9.5
png	0.1.7
RJSONIO	1.3.1.1
ggplot2	3.1.0
cluster	2.0.7.1
codetools	0.2.16
foreign	0.8.71
dplyr	0.7.8
httr	1.4.0
httpuv	1.4.5.1
jsonlite	1.6
magrittr	1.5
knitr	1.21
purrr	0.2.5
tm	0.7.6
proxy	0.4.22

Package	Version
data.table	1.12.0
stringr	1.3.1
Rook	1.1.1
rJava	0.9.10
devtools	2.0.1

Scala in Base Engine 7

The Scala kernel is based on the [Apache Toree 0.1.x kernel](https://docs.cloudera.com/cdsw/1.9.0/spark-configuration/topics/cdsw-spark-and-scala.html). For details on how to add more dependencies to the kernel, see <https://docs.cloudera.com/cdsw/1.9.0/spark-configuration/topics/cdsw-spark-and-scala.html>.

Base Engine 6

This section lists the Python, R, and Scala libraries that ship with engine 6.

Python Libraries in Base Engine 6

Engine 6 ships Python 2.7.11 and 3.6.1. This section lists the libraries that ship with the Python kernels in engine 6. Items in bold indicate a new version since the last release.

Library	Version
ipython	5.1.0
requests	2.13.0
Flask	0.12.0
simplejson	3.10.0
numpy	1.12.1
pandas	0.20.1
pandas-datareader	0.2.1
py4j	0.10.7
futures	2.1.4
matplotlib	2.0.0
seaborn	0.8.0
Cython	0.25.2
kudu-python	1.2.0

R Libraries in Base Engine 6

Engine 6 ships R version 3.4.1. This section lists the libraries that ship with the R kernel in engine 6.

Items in bold indicate a new version since the last release.

Package	Version
RCurl	1.95.4.10
caTools	1.17.1
svTools	0.9.5
png	0.1.7

Package	Version
RJSONIO	1.3.0
ggplot2	3.0.0
cluster	2.0.7.1
codetools	0.2.15
foreign	0.8.70
dplyr	0.7.6
httr	1.3.1
httpuv	1.4.4.2
jsonlite	1.5
magrittr	1.5
knitr	1.20
purrr	0.2.5
tm	0.7.4
proxy	0.4.22
data.table	1.11.4
stringr	1.3.1
Rook	1.1.1
rJava	0.9.10
devtools	1.13.6

Scala in Base Engine 6

The Scala kernel is based on the [Apache Toree 0.1.x kernel](https://docs.cloudera.com/cds/1.9.0/spark-configuration/topics/cds-spark-and-scala.html). For details on how to add more dependencies to the kernel, see <https://docs.cloudera.com/cds/1.9.0/spark-configuration/topics/cds-spark-and-scala.html>.

Base Engine 5

This section lists the Python, R, and Scala libraries that ship with engine 5.

Python Libraries in Base Engine 5

Engine 5 ships Python 2.7.11 and 3.6.1. This section lists the libraries that ship with the Python kernels in engine 5.

Items in bold indicate a new version since the last release.

Library	Version
ipython	5.1.0
requests	2.13.0
Flask	0.12.0
simplejson	3.10.0
numpy	1.12.1
pandas	0.20.1
pandas-datareader	0.2.1
py4j	0.10.7

Library	Version
futures	2.1.4
matplotlib	2.0.0
seaborn	0.8.0
Cython	0.25.2
kudu-python	1.2.0

R Libraries in Base Engine 5

Engine 5 ships R version 3.4.1. This section lists the libraries that ship with the R kernel in engine 5.

Items in bold indicate a new version since the last release.

Package	Version
RCurl	1.95.4.10
caTools	1.17.1
svTools	0.9.4
png	0.1.7
RJSONIO	1.3.0
ggplot2	2.2.1
cluster	2.0.7.1
codetools	0.2.15
foreign	0.8.70
dplyr	0.7.5
httr	1.3.1
httpuv	1.4.3
jsonlite	1.5
magrittr	1.5
knitr	1.20
purrr	0.2.5
tm	0.7.3
proxy	0.4.22
data.table	1.11.4
stringr	1.3.1
Rook	1.1.1
rJava	0.9.10
devtools	1.13.5

Scala in Base Engine 5

The Scala kernel is based on the [Apache Toree 0.1.x kernel](#). For details on how to add more dependencies to the kernel, see <https://docs.cloudera.com/cds/1.9.0/spark-configuration/topics/cds-spark-and-scala.html>.

Base Engine 4

This section lists the Python, R, and Scala libraries that ship with engine 4.

Python Libraries in Base Engine 4

Engine 4 ships Python 2.7.11 and 3.6.1. This section lists the libraries that ship with the Python kernels in engine 4.

Library	Version
ipython	5.1.0
requests	2.13.0
Flask	0.12.0
simplejson	3.10.0
numpy	1.12.1
pandas	0.20.1
pandas-datareader	0.2.1
py4j	0.10.4
futures	2.1.4
matplotlib	2.0.0
seaborn	0.8.0
Cython	0.25.2
kudu-python	1.2.0

R Libraries in Base Engine 4

Engine 4 ships R version 3.4.1. This section lists the libraries that ship with the R kernel in engine 4.

Package	Version
RCurl	1.95.4.10
caTools	1.17.1
svTools	0.9.4
png	0.1.7
RJSONIO	1.3.0
ggplot2	2.2.1
cluster	2.0.6
codetools	0.2.15
foreign	0.8.69
dplyr	0.7.4
httr	1.3.1
httpuv	1.3.5
jsonlite	1.5
magrittr	1.5
knitr	1.18
purrr	0.2.4
tm	0.7.3
proxy	0.4.21
data.table	1.10.4.3
stringr	1.2.0

Package	Version
Rook	1.1.1
rJava	0.9.9
devtools	1.13.4

Scala in Base Engine 4

The Scala kernel is based on the [Apache Toree 0.1.x kernel](https://docs.cloudera.com/cds/0.1.x/kernel). For details on how to add more dependencies to the kernel, see <https://docs.cloudera.com/cds/1.9.0/spark-configuration/topics/cds-spark-and-scala.html>.

Base Engine 3

This section lists the Python, R, and Scala libraries that ship with engine 3.

Python Libraries in Base Engine 3

Engine 3 ships Python 2.7.11 and 3.6.1. This section lists the libraries that ship with the Python kernels in engine 3.

Library	Version
ipython	5.1.0
requests	2.13.0
Flask	0.12.0
simplejson	3.10.0
numpy	1.12.1
pandas	0.20.1
pandas-datareader	0.2.1
py4j	0.10.4
futures	2.1.4
matplotlib	2.0.0
seaborn	0.8.0
Cython	0.25.2
kudu-python	1.2.0

R Libraries in Base Engine 3

Engine 3 ships R version 3.4.1. This section lists the libraries that ship with the R kernel in engine 3.

Package	Version
RCurl	1.95.4.8
caTools	1.17.1
svTools	0.9.4
png	0.1.7
RJSONIO	1.3.0
ggplot2	2.2.1
cluster	2.0.6
codetools	0.2.15
foreign	0.8.69

Package	Version
dplyr	0.7.4
httr	1.3.1
httpuv	1.3.5
jsonlite	1.5
magrittr	1.5
knitr	1.17
purrr	0.2.4
tm	0.7.3
proxy	0.4.20
data.table	1.10.4.3
stringr	1.2.0
Rook	1.1.1
rJava	0.9.9
devtools	1.13.4

Scala in Base Engine 3

The Scala kernel is based on the [Apache Toree 0.1.x kernel](https://docs.cloudera.com/cds/0.1.x/kernel). For details on how to add more dependencies to the kernel, see <https://docs.cloudera.com/cds/1.9.0/spark-configuration/topics/cds-spark-and-scala.html>.

Base Engine 2

This section lists the Python, R, and Scala libraries that ship with engine 2.

Python 2 Libraries in Base Engine 2

Engine 2 ships Python 2.7.11 and 3.6.1. This section lists the libraries that ship with the Python kernels in engine 2.

Library	Version
ipython	5.1.0
requests	2.13.0
Flask	0.12.0
simplejson	3.10.0
numpy	1.12.1
pandas	0.20.1
pandas-datareader	0.2.1
py4j	0.10.4
futures	2.1.4
matplotlib	2.0.0
seaborn	0.7.1
Cython	0.23.4

R Libraries in Base Engine 2

Engine 2 ships R version 3.3.0. This section lists the libraries that ship with the R kernel in engine 2.

Package	Version
RCurl	1.95.4.8
caTools	1.17.1
svTools	0.9.4
png	0.1.7
RJSONIO	1.3.0
ggplot2	2.2.1
cluster	2.0.6
codetools	0.2.15
foreign	0.8.69
dplyr	0.7.2
httr	1.2.1
httpuv	1.3.5
jsonlite	1.5
magrittr	1.5
knitr	1.16
purrr	0.2.3
data.table	1.10.4
stringr	1.2.0
Rook	1.1.1
rJava	0.9.8
devtools	1.13.3

Scala in Base Engine 2

The Scala kernel is based on the [Apache Toree 0.1.x kernel](https://docs.cloudera.com/cdsw/1.9.0/spark-configuration/topics/cdsw-spark-and-scala.html). For details on how to add more dependencies to the kernel, see <https://docs.cloudera.com/cdsw/1.9.0/spark-configuration/topics/cdsw-spark-and-scala.html>.