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PySpark Tutorial

PySpark Tutorial For Beginners (https://sparkbyexamples.com/pyspark-tutorial/)

PySpark – Features (https://sparkbyexamples.com/pyspark-tutorial/#features)

PySpark – Advantages (https://sparkbyexamples.com/pyspark-tutorial/#advantages)

PySpark – Modules & Packages (https://sparkbyexamples.com/pyspark-tutorial/#modules-packages)

PySpark – Cluster Managers (https://sparkbyexamples.com/pyspark-tutorial/#cluster-manager)

PySpark – Install on Windows (https://sparkbyexamples.com/pyspark/how-to-install-and-run-pyspark-on-windows/)

PySpark – Install on Mac (https://sparkbyexamples.com/pyspark/how-to-install-pyspark-on-mac/)

PySpark – Web/Application UI (https://sparkbyexamples.com/spark/spark-web-ui-understanding/)

PySpark – SparkSession (https://sparkbyexamples.com/pyspark/pyspark-what-is-sparksession/)

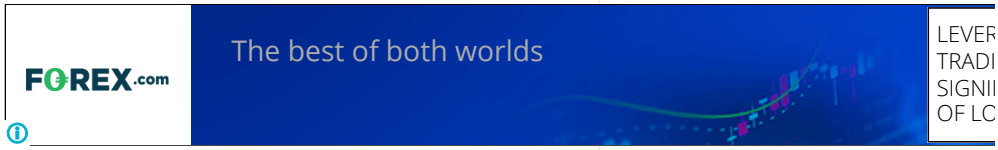
PySpark – SparkContext (https://sparkbyexamples.com/pyspark/pyspark-sparkcontext-explained/)

PySpark – RDD (https://sparkbyexamples.com/pyspark-rdd)

PySpark – Parallelize (https://sparkbyexamples.com/pyspark/pyspark-parallelize-create-rdd/)

PySpark – repartition() vs coalesce() (https://sparkbyexamples.com/pyspark/pyspark-repartition-vs-coalesce/)

PySpark – Broadcast Variables (https://sparkbyexamples.com/py



How to Install PySpark on Windows

NNK (https://sparkbyexamples.com/author/admin/) -

PySpark (https://sparkbyexamples.com/category/pyspark/) -

December 6, 2022

In this article, I will explain how to install and run PySpark on windows and also explain how to start a history server (https://sparkbyexamples.com/spark/spark-history-server-to-monitor-applications/) and monitor your jobs using Web UI (https://sparkbyexamples.com/spark/spark-web-ui-understanding/).

Related:

- PySpark Install on Mac OS (https://sparkbyexamples.com/pyspark/how-to-install-pyspark-on-mac/)
- Apache Spark Installation on Windows (https://sparkbyexamples.com/spark/apache-spark-installation-on-windows/)

PySpark is a Spark library written in Python to run Python applications using Apache Spark capabilities. so there is no PySpark library to download. All you need is Spark.

Follow the below steps to **Install PySpark on Windows**

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spark/pyspark-broadcast-variables/)

PySpark – Accumulator (https://sparkbyexamples.com/pyspark/pyspark-accumulator-with-example/)

PySpark DataFrame

PySpark – Create a DataFrame (https://sparkbyexamples.com/pyspark/different-ways-to-create-dataframe-in-pyspark/)

PySpark – Create an empty DataFrame (https://sparkbyexamples.com/pyspark/pyspark-create-an-empty-dataframe/)

PySpark – Convert RDD to DataFrame (https://sparkbyexamples.com/pyspark/convert-pyspark-rdd-to-dataframe/)

PySpark – Convert DataFrame to Pandas (https://sparkbyexamples.com/pyspark/convert-pyspark-dataframe-to-pandas/)

PySpark – show() (https://sparkbyexamples.com/pyspark/pyspark-show-display-dataframe-contents-in-table/)

PySpark – StructType & StructField (https://sparkbyexamples.com/pyspark/pyspark-structtype-and-structfield/)

PySpark – Row Class (https://sparkbyexamples.com/pyspark/pyspark-row-using-rdd-dataframe/)

PySpark – Column Class (https://sparkbyexamples.com/pyspark/pyspark-column-functions/)

PySpark – select() (https://sparkbyexamples.com/pyspark/select-columns-from-pyspark-dataframe/)

PySpark – collect() (https://sparkbyexamples.com/pyspark/pyspark-collect/)

PySpark – withColumn() (https://sparkbyexamples.com/pyspark/pyspark-withcolumn/)

Install Python or Anaconda distribution

Download and install either Python from Python.org (https://www.python.org/downloads/windows/) or Anaconda distribution (https://www.anaconda.com/) which includes Python, Spyder IDE, and Jupyter notebook. I would recommend using Anaconda as it's popular and used by the Machine Learning & Data science community.

Follow Install PySpark using Anaconda & run Jupyter notebook (https://sparkbyexamples.com/pyspark/install-pyspark-in-anaconda-jupyter-notebook/)

Install Java 8

To run the PySpark application, you would need Java 8 or a later version hence download the Java version from Oracle (https://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html) and install it on your system.

Post-installation set JAVA_HOME and PATH variable.

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PySpark – withColumnRenamed() (https://sparkbyexamples.com/pyspark/pyspark-rename-dataframe-column/)

PySpark – where() & filter() (https://sparkbyexamples.com/pyspark/pyspark-where-filter/)

PySpark – drop() & dropDuplicates() (https://sparkbyexamples.com/pyspark/pyspark-distinct-to-drop-duplicates/)

PySpark – orderBy() and sort() (https://sparkbyexamples.com/pyspark/pyspark-orderby-and-sort-explained/)

PySpark – groupBy() (https://sparkbyexamples.com/pyspark/pyspark-groupby-explained-with-example/)

PySpark – join() (https://sparkbyexamples.com/pyspark/pyspark-join-explained-with-examples/)

PySpark – union() & unionAll() (https://sparkbyexamples.com/pyspark/pyspark-union-and-unionall/)

PySpark – unionByName() (https://sparkbyexamples.com/spark/spark-merge-two-dataframes-with-different-columns/)

PySpark – UDF (User Defined Function) (https://sparkbyexamples.com/pyspark/pyspark-udf-user-defined-function/)

PySpark – map() (https://sparkbyexamples.com/pyspark/pyspark-map-transformation/)

PySpark – flatMap() (https://sparkbyexamples.com/pyspark/pyspark-flatmap-transformation/)

pyspark – foreach() (https://sparkbyexamples.com/pyspark/pyspark-loop-iterate-through-rows-in-dataframe/#use-foreach-loop-through-dataframe)

PySpark – sample() vs sampleBy() (https://sparkbyexamples.com/py

```
JAVA_HOME = C:\Program Files\Java\jd
PATH = %PATH%;C:\Program Files\Java\
```

PySpark Install on Windows

PySpark is a Spark library written in Python to run Python applications using Apache Spark capabilities. so there is no PySpark library to download. All you need is Spark; follow the below steps to install PySpark on windows.

1. On Spark Download (https://spark.apache.org/downloads.html) page, select the link “Download Spark (point 3)” to download. If you wanted to use a different version of Spark & Hadoop, select the one you wanted from drop-downs, and the link on point 3 changes to the selected version and provides you with an updated link to download.

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spark/pyspark-sampling-example/)

PySpark – fillna() & fill() (https://sparkbyexamples.com/pyspark/pyspark-fillna-fill-replace-null-values/)

PySpark – pivot() (Row to Column) (https://sparkbyexamples.com/pyspark/pyspark-pivot-and-unpivot-dataframe/)

PySpark – partitionBy() (https://sparkbyexamples.com/pyspark/pyspark-partitionby-example/)

PySpark – ArrayType Column (Array) (https://sparkbyexamples.com/pyspark/pyspark-arraytype-column-with-examples/)

PySpark – MapType (Map/Dict) (https://sparkbyexamples.com/pyspark/pyspark-maptype-dict-examples/)

PySpark SQL Functions

PySpark – Aggregate Functions (https://sparkbyexamples.com/pyspark/pyspark-aggregate-functions/)

PySpark – Window Functions (https://sparkbyexamples.com/pyspark/pyspark-window-functions/)

PySpark – Date and Timestamp Functions (https://sparkbyexamples.com/pyspark/pyspark-sql-date-and-timestamp-functions/)

PySpark – JSON Functions (https://sparkbyexamples.com/pyspark/pyspark-json-functions-with-examples/)

PySpark Datasources

PySpark – Read & Write CSV File (https://sparkbyexamples.com/pyspark/pyspark-read-csv-file-into-dataframe/)

PySpark – Read & Write Parquet File (https://sparkbyexamples.com/pyspark/pyspark-read-and-write-parquet-file/)

2. After download, untar the binary using 7zip (https://www.7-zip.org/download.html) and copy the underlying folder `spark-3.0.0-bin-hadoop2.7` to `c:\apps`

3. Now set the following environment variables.

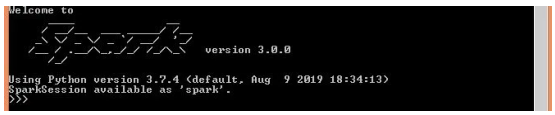
```
SPARK_HOME  = C:\apps\spark-3.0.0-bi
HADOOP_HOME = C:\apps\spark-3.0.0-bi
PATH=%PATH%;C:\apps\spark-3.0.0-bin-
```

Install winutils.exe on Windows

Download winutils.exe file from winutils (https://github.com/steveloughran/winutils/blob/master/hadoop-2.7.1/bin/winutils.exe), and copy it to `%SPARK_HOME%\bin` folder. Winutils are different for each Hadoop version hence download the right version from https://github.com/steveloughran/winutils (https://github.com/steveloughran/winutils)

PySpark shell

Now open the command prompt and type pyspark command to run the PySpark shell. You should see something like this below.



Spark-shell also creates a Spark context web UI (https://sparkbyexamples.com/spark/spark-web-ui-understanding/) and by default, it can access from http://localhost:4041 (http://localhost:4041/).

Web UI

Apache Spark provides a suite of Web UIs (Jobs, Stages, Tasks, Storage, Environment, Executors, and SQL) to monitor the status of

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PySpark – Read & Write JSON file (https://sparkbyexamples.com/pyspark/pyspark-read-json-file-into-dataframe/)

PySpark Built-In Functions

PySpark – when() (https://sparkbyexamples.com/pyspark/pyspark-when-otherwise/)

PySpark – expr() (https://sparkbyexamples.com/pyspark/pyspark-sql-expr-expression-function/)

PySpark – lit() (https://sparkbyexamples.com/pyspark/pyspark-lit-add-literal-constant/)

PySpark – split() (https://sparkbyexamples.com/pyspark/pyspark-convert-string-to-array-column/)

PySpark – concat_ws() (https://sparkbyexamples.com/pyspark/pyspark-convert-array-column-to-string-column/)

Pyspark – substring() (https://sparkbyexamples.com/pyspark/pyspark-substring-from-a-column/)

PySpark – translate() (https://sparkbyexamples.com/pyspark/pyspark-replace-column-values/#translate-replace-character-by-character)

PySpark – regexp_replace() (https://sparkbyexamples.com/pyspark/pyspark-replace-column-values/#regexp_replace-replace-string-columns)

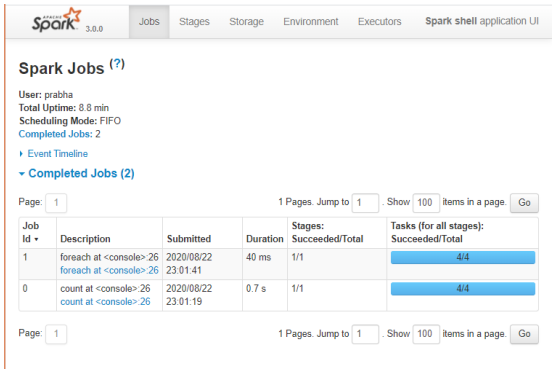
PySpark – overlay() (https://sparkbyexamples.com/pyspark/pyspark-replace-column-values/#overlay-function)

PySpark – to_timestamp() (https://sparkbyexamples.com/spark/pyspark-to_timestamp-convert-string-to-timestamp-type/)

PySpark – to_date() (https://sparkbyexamples.com/pyspark/pyspark-to_date-convert-timestamp-to-date/)

PySpark – date_format() (https://sparkbyexamples.com/pysp

your Spark application (https://sparkbyexamples.com/spark/spark-web-ui-understanding/).



Spark Web UI

History Server

History servers, keep a log of all PySpark applications you submit by spark-submit, pyspark shell. before you start, first you need to set the below config on `spark-defaults.conf`

```
spark.eventLog.enabled true
spark.history.fs.logDirectory file:/
```

Now, start the history server on Linux or Mac by running.

```
$SPARK_HOME/sbin/start-history-serve
```

If you are running PySpark on windows, you can start the history server by starting the below command.

```
$SPARK_HOME/bin/spark-class.cmd org.
```

By default, History server listens at 18080 port and you can access it from the browser using http://localhost:18080/ (http://localhost:18080/)

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ark/pyspark-date_format-convert-date-to-string-format/)

PySpark – datediff() (https://sparkbyexamples.com/pyspark/pyspark-difference-between-two-dates-days-months-years/#datediff)

PySpark – months_between() (https://sparkbyexamples.com/pyspark/pyspark-difference-between-two-dates-days-months-years/#months_between())

PySpark – explode() (https://sparkbyexamples.com/pyspark/pyspark-explode-nested-array-into-rows/)

PySpark – array_contains() (https://sparkbyexamples.com/pyspark/pyspark-arraytype-column-with-examples/#array_contains)

PySpark – array() (https://sparkbyexamples.com/pyspark/pyspark-arraytype-column-with-examples/#array)

PySpark – collect_list() (https://sparkbyexamples.com/pyspark/pyspark-aggregate-functions/#collect-list)

PySpark – collect_set() (https://sparkbyexamples.com/pyspark/pyspark-aggregate-functions/#collect-set)

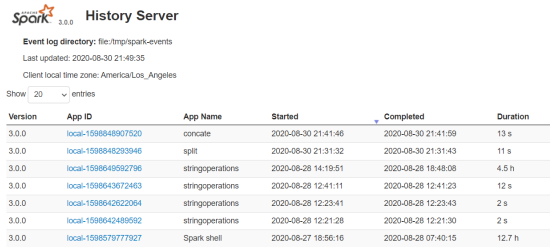
PySpark – create_map() (https://sparkbyexamples.com/pyspark/pyspark-convert-dataframe-columns-to-maptype-dict/)

PySpark – map_keys() (https://sparkbyexamples.com/pyspark/pyspark-maptype-dict-examples/#map_keys)

PySpark – map_values() (https://sparkbyexamples.com/pyspark/pyspark-maptype-dict-examples/#map_values)

PySpark – struct() (https://sparkbyexamples.com/pyspark/pyspark-structtype-and-structfield/#update-struct-function)

PySpark – countDistinct() (https://sparkbyexamples.com/pyspark/pyspark-count-distinct-from-dataframe/)



History Server

By clicking on each App ID, you will get the details of the application in PySpark web UI.

Conclusion

In summary, you have learned how to install PySpark on windows and run sample statements in spark-shell

If you have any issues, setting up, please message me in the comments section, I will try to respond with the solution.

Happy Learning !!

Related Articles

- Install PySpark in Jupyter on Mac using Homebrew (https://sparkbyexamples.com/pyspark/install-pyspark-in-jupyter-on-mac-using-homebrew/)
- Install PySpark in Anaconda & Jupyter Notebook (https://sparkbyexamples.com/pyspark/install-pyspark-in-anaconda-jupyter-notebook/)
- How to Install PySpark on Mac (in 2022) (https://sparkbyexamples.com/pyspark/how-to-install-pyspark-on-mac/)
- Dynamic way of doing ETL through Pyspark (https://sparkbyexamples.com/pyspark/dynamic-way-of-doing-etl-through-pyspark/)
- How to Find PySpark Version? (https://sparkbyexamples.com/pyspark/how-to-find-pyspark-version/)
- PySpark Shell Command Usage with Examples (https://sparkbyexamples.com/pyspark/pyspark-shell-usage-with-examples/)
- Pyspark: Exception: Java gateway process exited before sending the driver its port number

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PySpark – sum(), avg() (https://sparkbyexamples.com/pyspark/pyspark-dataframe-groupby-and-sort-by-descending-order/)

PySpark – row_number() (https://sparkbyexamples.com/pyspark/pyspark-window-functions/#row_number)

PySpark – rank() (https://sparkbyexamples.com/pyspark/pyspark-window-functions/#rank)

PySpark – dense_rank() (https://sparkbyexamples.com/pyspark/pyspark-window-functions/#dense_rank)

PySpark – percent_rank() (https://sparkbyexamples.com/pyspark/pyspark-window-functions/#percent_rank)

PySpark – typedLit() (https://sparkbyexamples.com/pyspark/pyspark-lit-add-literal-constant/#typedlit)

PySpark – from_json() (https://sparkbyexamples.com/pyspark/pyspark-json-functions-with-examples/#from_json)

PySpark – to_json() (https://sparkbyexamples.com/pyspark/pyspark-json-functions-with-examples/#to_json)

PySpark – json_tuple() (https://sparkbyexamples.com/pyspark/pyspark-json-functions-with-examples/#json_tuple)

PySpark – get_json_object() (https://sparkbyexamples.com/pyspark/pyspark-json-functions-with-examples/#get_json_object)

PySpark – schema_of_json() (https://sparkbyexamples.com/pyspark/pyspark-json-functions-with-examples/#schema_of_json)

(https://sparkbyexamples.com/pyspark/pyspark-exception-java-gateway-process-exited-before-sending-the-driver-its-port-number/)

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1. **PySpark Collect() – Retrieve data from DataFrame (https://sparkbyexamples.com/pyspark/pyspark-collect/)**
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4. **PySpark to_date() – Convert String to Date Format (https://sparkbyexamples.com/pyspark/pyspark-to_date-convert-string-to-date-format/)**
5. **PySpark mapPartitions() Examples (https://sparkbyexamples.com/pyspark/pyspark-mappartitions/)**
6. **AttributeError: 'DataFrame' object has no attribute 'map' in PySpark (https://sparkbyexamples.com/pyspark/attributeerror-dataframe-object-has-no-attribute-map-in-pyspark/)**
7. **PySpark Replace Column Values in DataFrame (https://sparkbyexamples.com/pyspark/pyspark-replace-column-values/)**
8. **Spark Using Length/Size Of a DataFrame Column (https://sparkbyexamples.com/spark/spark-using-length-size-of-a-dataframe-column/)**
9. **Install PySpark in Jupyter on Mac using Homebrew (https://sparkbyexamples.com/pyspark/install-pyspark-in-jupyter-on-mac-using-homebrew/)**
10. **PySpark repartition() – Explained with Examples (https://sparkbyexamples.com/pyspark/pyspark-repartition-usage/)**

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Sindhu

SEPTEMBER 16, 2021 REPLY

I have set the variables as mentioned below in spark-defaults.conf yet im getting the exception finle not found /tmp/spark-events. Please let me know what am i doing wrong.
spark.eventLog.enabled true
spark.eventLog.dir C://logs/path
spark.history.fs.logDirectory C://logs/path
“`

Using Spark’s default log4j profile: org/apache/spark/log4j-defaults.properties
21/09/16 13:54:59 INFO HistoryServer: Started daemon with process name: 4520@LAPTOP-ECK2KRNH
21/09/16 13:54:59 WARN NativeCodeLoader: Unable to load native-hadoop library for your platform… using builtin-java classes where applicable
21/09/16 13:55:00 INFO SecurityManager: Changing view acls to: sindhu
21/09/16 13:55:00 INFO SecurityManager: Changing modify acls to: sindhu
21/09/16 13:55:00 INFO SecurityManager: Changing view acls groups to:
21/09/16 13:55:00 INFO SecurityManager:

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Changing modify acls groups to:
21/09/16 13:55:00 INFO SecurityManager: SecurityManager: authentication disabled; ui acls disabled; users with view permissions: Set(sindhu); groups with view permissions: Set(); users with modify permissions: Set(sindhu); groups with modify permissions: Set()
21/09/16 13:55:00 INFO FsHistoryProvider: History server ui acls disabled; users with admin permissions: ; groups with admin permissions
21/09/16 13:55:00 INFO Utils: Successfully started service on port 18080.
21/09/16 13:55:00 INFO HistoryServer: Bound HistoryServer to 0.0.0.0, and started at http://LAPTOP-ECK2KRNH.mshome.net:18080 (http://LAPTOP-ECK2KRNH.mshome.net:18080)
Exception in thread “main” java.io.FileNotFoundException: Log directory specified does not exist: file:/tmp/spark-events Did you configure the correct one through spark.history.fs.logDirectory?
at org.apache.spark.deploy.history.FsHistoryProvider.startPolling(FsHistoryProvider.scala:280)
at org.apache.spark.deploy.history.FsHistoryProvider.initialize(FsHistoryProvider.scala:228)
at org.apache.spark.deploy.history.FsHistoryProvider.start(FsHistoryProvider.scala:410)
at org.apache.spark.deploy.history.HistoryServer$.main(HistoryServer.scala:303)
at org.apache.spark.deploy.history.HistoryServer.main(HistoryServer.scala)
Caused by: java.io.FileNotFoundException: File file:/tmp/spark-events does not exist
at org.apache.hadoop.fs.RawLocalFileSystem.deprecatedGetFileStatus(RawLocalFileSystem.java:611)
at org.apache.hadoop.fs.RawLocalFileSystem.getFileLinkStatusInternal(RawLocalFileSystem.java:824)
at org.apache.hadoop.fs.RawLocalFileSystem.g

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etFileStatus(RawLocalFileSystem.java:601)
at
org.apache.hadoop.fs.FilterFileSystem.getFileStatus(FilterFileSystem.java:428)
at
org.apache.spark.deploy.history.FsHistoryProvider.startPolling(FsHistoryProvider.scala:270)
“`

NNK

SEPTEMBER 16, 2021 REPLY

Hi Sindhu, Why you have # infront of the properties. Remove # and try again.

Basha SEPTEMBER 14, 2021 REPLY

‘pyspark’ is not recognized as an internal or external command, operable program or batch file– please provide the solution for this error. It will be useful for others as well

NNK SEPTEMBER 14, 2021 REPLY

Hi Bash, Are you using windows or Linux platform? regardless you need to set the following on environment variables. Let me know if you don’t know how to set these.
SPARK_HOME = C:\apps\spark-3.0.0-bin-hadoop2.7
HADOOP_HOME = C:\apps\spark-3.0.0-bin-hadoop2.7
PATH=%PATH%;C:\apps\spark-3.0.0-bin-hadoop2.7\bin
Change the path according to your setup.

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