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How To Install Apache Spark On Windows 10

Posted May 28, 2020

WINDOWS

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Introduction

Apache Spark is an open-source framework that processes large volumes of stream data from multiple sources. Spark is used in distributed computing with machine learning applications, data analytics, and graph-parallel processing.

This guide will show you **how to install Apache Spark on Windows 10** and test the installation.

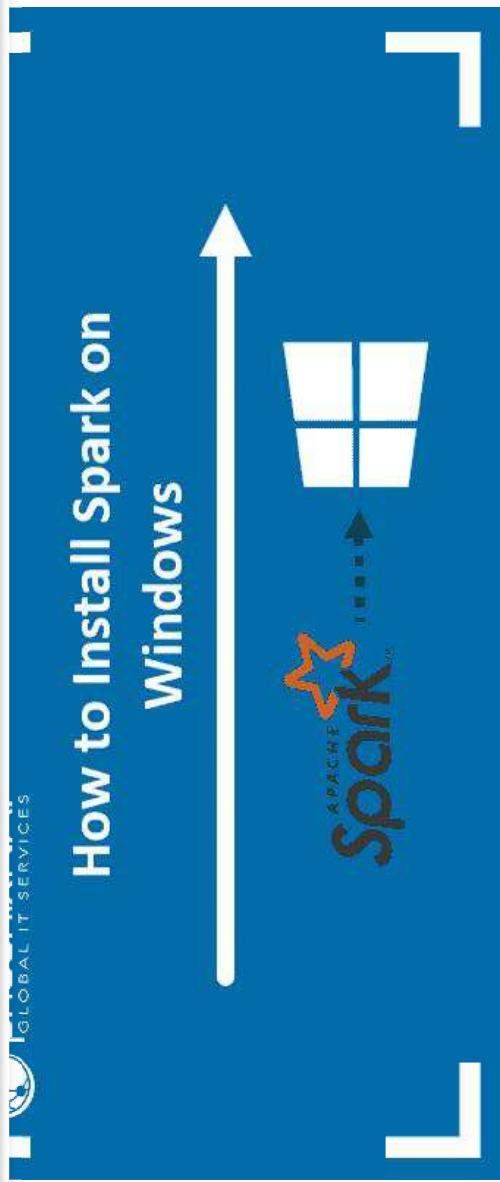


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Prerequisites

- A system running Windows 10
- A user account with administrator privileges (required to install software, modify file permissions, and modify system PATH)
- Command Prompt or Powershell
- A tool to extract .tar files, such as 7-Zip

Install Apache Spark on Windows

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Step 1: Install Java 8

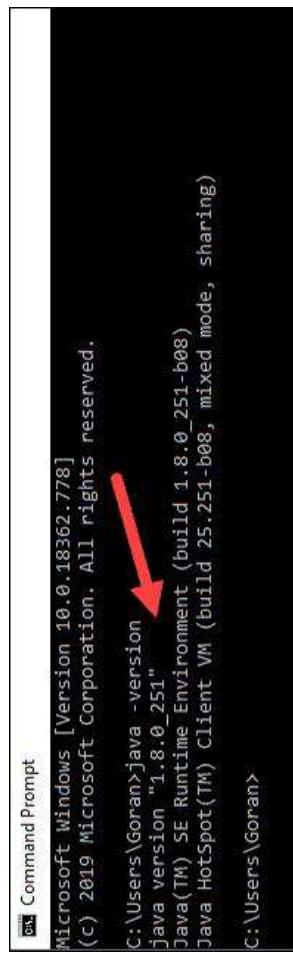
Apache Spark requires Java 8. You can check to see if Java is installed using the command prompt.

Open the command line by clicking **Start** > type **cmd** > click **Command Prompt**.

Type the following command in the command prompt:

```
java -version
```

If Java is installed, it will respond with the following output:



```
Microsoft Windows [Version 10.0.18362.778]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Goran>java -version
java version "1.8.0_251"
Java(TM) SE Runtime Environment (build 1.8.0_251-b08)
Java HotSpot(TM) Client VM (build 25.251-b08, mixed mode, sharing)

C:\Users\Goran>
```

Your version may be different. The second digit is the Java version – in this case, Java 8.

If you don't have Java installed:



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Java Download

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Version 8 Update 251

Release date April 14, 2020

⚠ Important Oracle Java License Update

The Oracle Java License has changed for releases starting April 16, 2019.

The new Oracle Technology Network License Agreement for Oracle Java SE is substantially different from prior Oracle Java licenses. The new license permits certain uses, such as personal use and development use, at no cost – but other uses authorized under prior Oracle Java licenses may no longer be available. Please review the terms carefully before downloading and using this product. An FAQ is available [here](#).

Commercial license and support is available with a low cost Java SE Subscription.

Oracle also provides the latest OpenJDK release under the open source [GPL Licence](#) at [Jdk.java.net](#).

Java Download

2 Test Spark

2. Click the **Java Download** button and save the file to a location of your choice.

3. Once the download finishes double-click the file to install Java.

Note: At the time this article was written, the latest Java version is 1.8.0_251. Installing a later



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<https://www.oracle.com/java/technologies/javase-downloads.html>.

Step 2: Install Python

1. To install the Python package manager, navigate to <https://www.python.org/> in your web browser.
2. Mouse over the **Download** menu option and click **Python 3.8.3**. 3.8.3 is the latest version at the time of writing the article.
3. Once the download finishes, run the file.

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The screenshot shows the Apache Spark download page. A red arrow points to the 'Download for Windows' button, which is highlighted in grey. Below it, a note says 'Note that Python 3.5+ cannot be used on Windows XP or earlier.' The page also lists other download options: All releases, Source code, Windows, Mac OS X, Other Platforms, License, and Alternative Implementations.



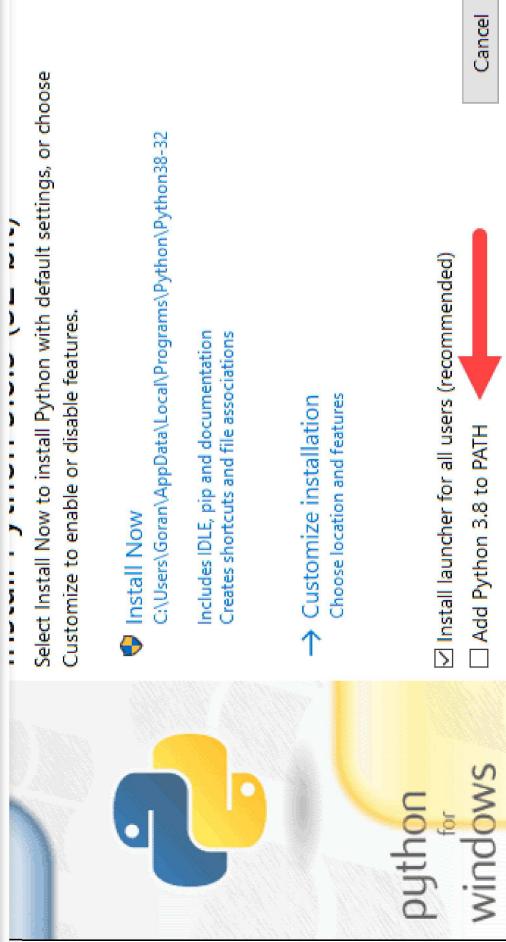
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6. You can leave all boxes checked at this step, or you can uncheck the options you do not want.

7. Click **Next**.

8. Select the box **Install for all users** and leave other boxes as they are.

9. Under **Customize install location**, click **Browse** and navigate to the C drive. Add a new folder and name it **Python**.

10. Select that folder and click **OK**.

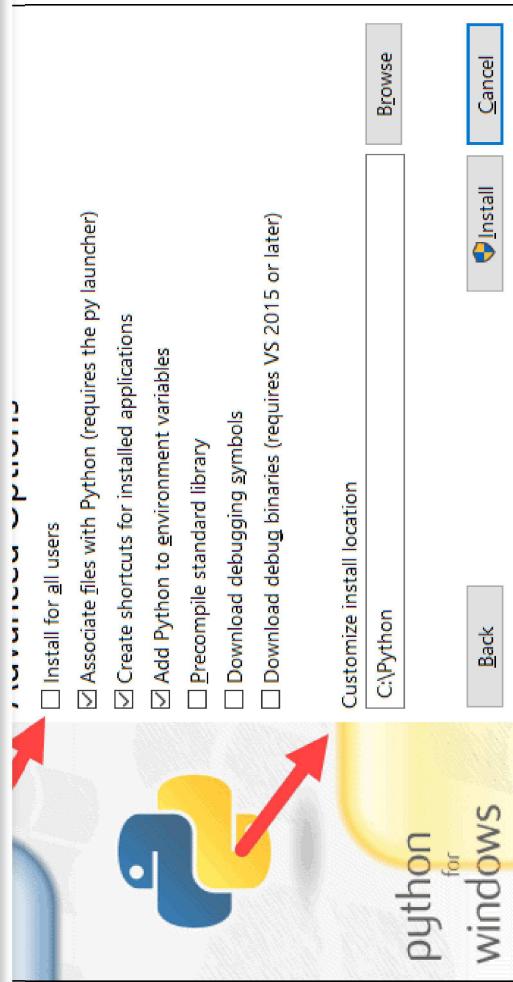


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11. Click **Install**, and let the installation complete.

12. When the installation completes, click the *Disable path length limit* option at the bottom and then click **Close**.

13. If you have a command prompt open, restart it. Verify the installation by checking the version of Python:

```
python --version
```

The output should print **Python 3.8.3**.



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Step 3: Download Apache Spark

1. Open a browser and navigate to <https://spark.apache.org/downloads.html>.
2. Under the *Download Apache Spark* heading, there are two drop-down menus. Use the current non-preview version.
 - In our case, in **Choose a Spark release** drop-down menu select **2.4.5 (Feb 05 2020)**.
 - In the second drop-down **Choose a package type**, leave the selection **Pre-built for Apache Hadoop 2.7**.
3. Click the **spark-2.4.5-bin-hadoop2.7.tgz** link.

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1. Choose a Spark release: 2.4.5 (Feb 05 2020) 

2. Choose a package type: Pre-built for Apache Hadoop 2.7 

3. Download Spark: spark-2.4.5-bin-hadoop2.7.tgz 

4. Verify this release using the 2.4.5 signatures, checksums and project release KEYS.

Note that, Spark is pre-built with Scala 2.11 except version 2.4.2, which is pre-built with Scala 2.12.

4. A page with a list of mirrors loads where you can see different servers to download from. Pick any from the list and save the file to your Downloads folder.

Step 4: Verify Spark Software File

1. Verify the integrity of your download by checking the **checksum** of the file. This ensures you are working with unaltered, uncorrupted software.

2. Navigate back to the **Spark Download** page and open the **Checksum** link, preferably in a new tab.

3. Next, open a command line and enter the following command:

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4. Change the username to your username. The system displays a long alphanumeric code, along with the message

Certutil: -hashfile completed successfully .



```
C:\ Command Prompt
C:\Users\Goran>certutil -hashfile c:\users\Goran\Downloads\spark-2.4.5-bin-hadoop2.7.tgz SHA512
SHA512 hash of c:\users\Goran\Downloads\spark-2.4.5-bin-hadoop2.7.tgz:
2426a20c548bd4fc074f288cd1d18dd1da6b347fa034c52a4e0e895f9ad460720c526f163bad3a17efa4764c
46a1cd8f9b04c60f9937a554db85d2
CertUtil: -hashfile command completed successfully.

C:\Users\Goran>
```

5. Compare the code to the one you opened in a new browser tab. If they match, your download file is uncorrupted.

Step 5: Install Apache Spark

Installing Apache Spark involves **extracting the downloaded file** to the desired location.

- Create a new folder named **Spark** in the root of your C: drive. From a command line, enter the following:

```
cd \
```

```
mkdir Spark
```

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3. Right-click the file and extract it to C:\spark using the way you have on your system (e.g., 7-Zip).

4. Now, your C:\Spark folder has a new folder *spark-2.4.5-bin-hadoop2.7* with the necessary files inside.

Step 6: Add **winutils.exe** File

Download the **winutils.exe** file for the underlying Hadoop version for the Spark installation you downloaded.

1. Navigate to this URL <https://github.com/cdarlant/winutils> and inside the **bin** folder, locate **winutils.exe**, and click it.

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2. Find the **Download** button on the right side to download the file.

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4. Copy the windows.exe file from the download folder to C:\Windows.

Step 7: Configure Environment Variables

Configuring **environment variables** in Windows adds the Spark and Hadoop locations to your system PATH. It allows you to run the Spark shell directly from a command prompt window.

1. Click **Start** and type **environment**.

2. Select the result labeled **Edit the system environment variables**.

3. A System Properties dialog box appears. In the lower-right corner, click **Environment Variables** and then click **New** in the next window.

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3. For variable value type `C:\spark\spark-2.4.3-bin-hadoop2.7`. If you change the path, use that one instead.

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7. You should see a box with entries on the left. On the right, click **New**.

8. The system highlights a new line. Enter the path to the Spark folder **C:\Spark\spark-2.4.5-bin-hadoop2.7\bin**. We recommend using **%SPARK_HOME%\bin** to avoid possible issues with the path.

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9. Repeat this process for Hadoop and Java.

- For Hadoop, the variable name is **HADOOP_HOME** and for the value use the path of the folder you created earlier: **C:\hadoop\bin** to the **Path variable** field, but we recommend using **%HADOOP_HOME%\bin**.
- For Java, the variable name is **JAVA_HOME** and for the value use the path to your Java JDK directory (in our case it's **C:\Program Files\Java\jdk1.8.0_251**).

10. Click **OK** to close all open windows.



Note: Start by restarting the Command Prompt to apply changes. If that doesn't work, you will need to reboot the system.

Step 8: Launch Spark

1. Open a new command-prompt window using the right-click and **Run as administrator**:



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```
C:\Spark\spark-2.4.5-bin-hadoop2.7\bin\spark-shell
```

If you set the **environment path** correctly, you can type **spark-shell** to launch Spark.

3. The system should display several lines indicating the status of the application. You may get a Java pop-up. Select **Allow access** to continue.

Finally, the Spark logo appears, and the prompt displays the **Scala shell**.



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4., Open a web browser and navigate to **http://localhost:4040/**.

5. You can replace **localhost** with the name of your system.

6. You should see an Apache Spark shell Web UI. The example below shows the *Executors* page.



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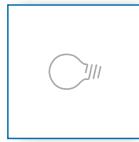


7. To exit Spark and close the Scala shell, press `ctrl-d` in the command-prompt window.



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pyspark

Exit using `quit()`.

Test Spark

In this example, we will launch the Spark shell and use Scala to read the contents of a file. You can use an existing file, such as the *README* file in the Spark directory, or you can create your own. We created *pnaptest* with some text.

1. Open a command-prompt window and navigate to the folder with the file you want to use and launch the Spark shell.
2. First, state a variable to use in the Spark context with the name of the file. Remember to add the file extension if there is any.

```
val x = sc.textFile("pnaptest")
```

3. The output shows an RDD is created. Then, we can view the file contents by using this command to call an action:



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4. For example, you can print the characters in reverse with this command:

```
val y = x.map(_.reverse)
```

5. The system creates a child RDD in relation to the first one. Then, specify how many lines you want to print from the value **y**:

```
y.take(11).foreach(println)
```

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Conclusion

You should now have a working installation of Apache Spark on Windows 10 with all dependencies installed. Get started running an instance of Spark in your Windows environment.



With this guide, you should now have a working installation of Apache Spark on Windows 10 with all dependencies installed. Get started running an instance of Spark in your Windows environment.

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Goran Jevtic
Goran combines his passions for research, writing and technology as a technical writer at phoenixNAP. Working multiple departments and on a variety of projects, he has developed extraordinary understanding of cloud and virtualization technology trends and best practices.

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