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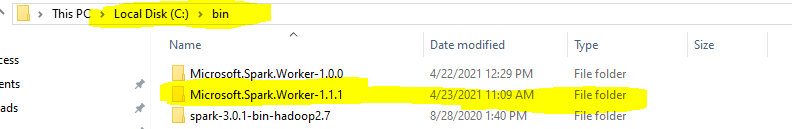
## Install Spark Worker

### Download Spark Worker

<https://github.com/dotnet/spark/releases>



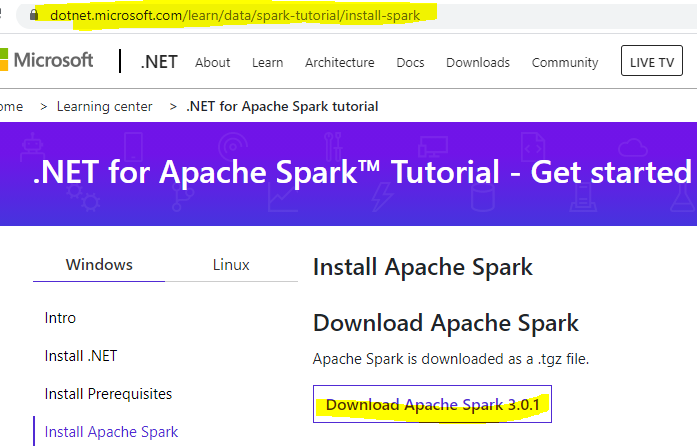
### Extract to Folder



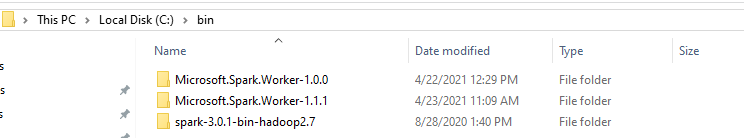
## Install Apache Spark

### Download Apache Spark

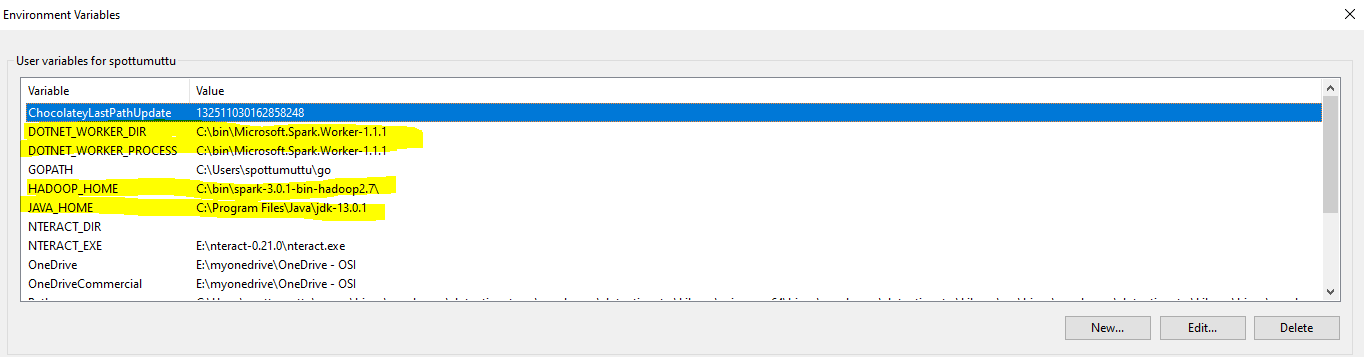
https://dotnet.microsoft.com/learn/data/spark-tutorial/install-spark

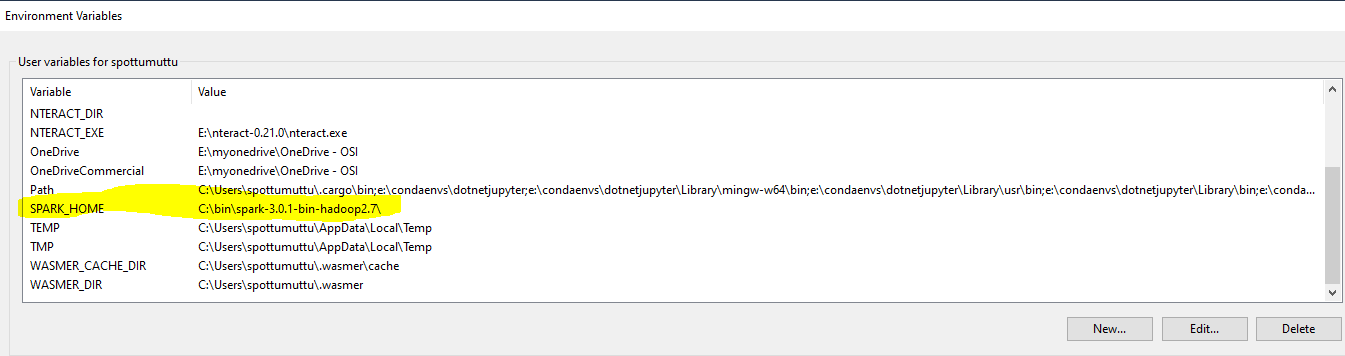


### Extract to Apache Spark

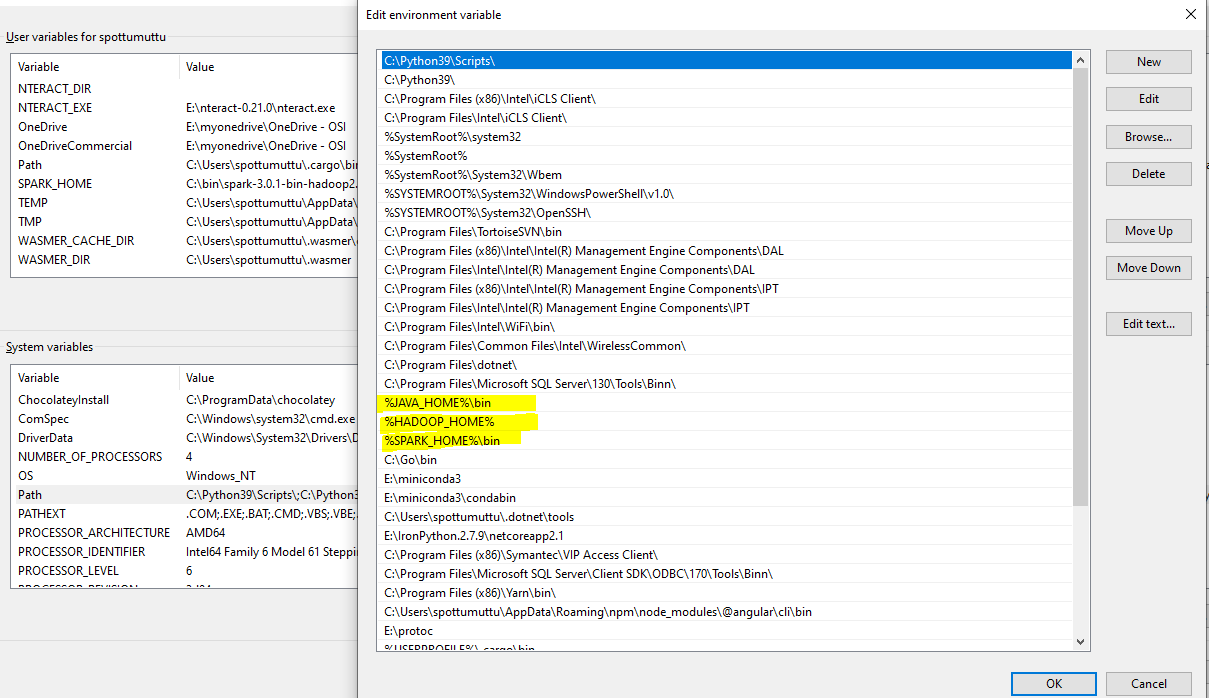


## SET Environment Variables





## SET System Variables



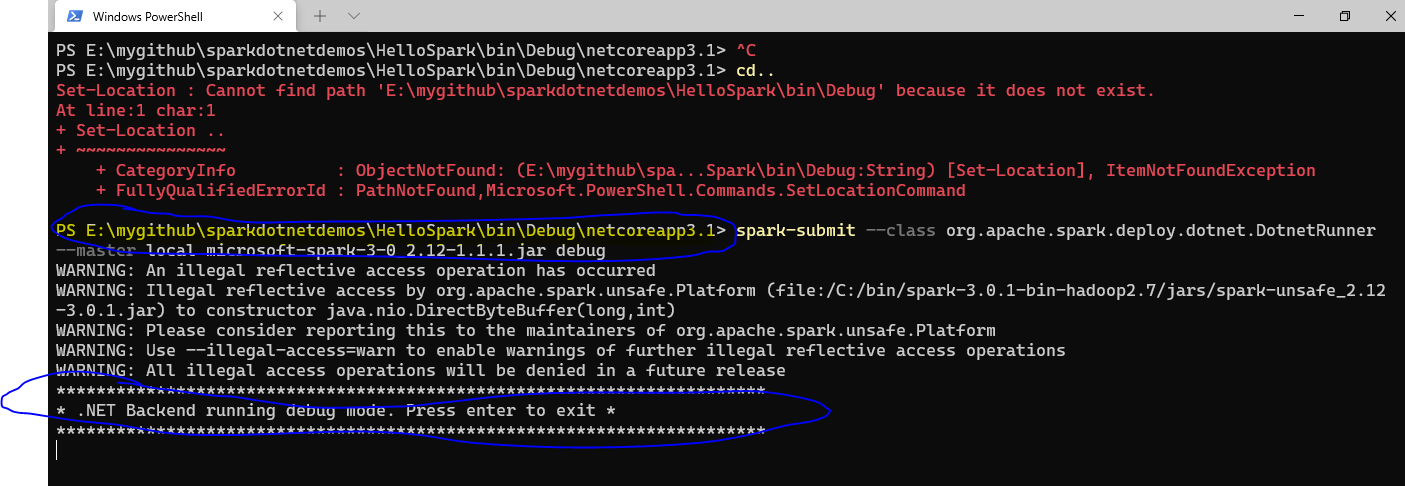
## How to Run .NET UDFs

\*\*\*\*It is important to run spark-submit from this folder “bin\Debug\netcoreapp3.1” other wise .NET UDF’s will not work.

### Start Spark-submit

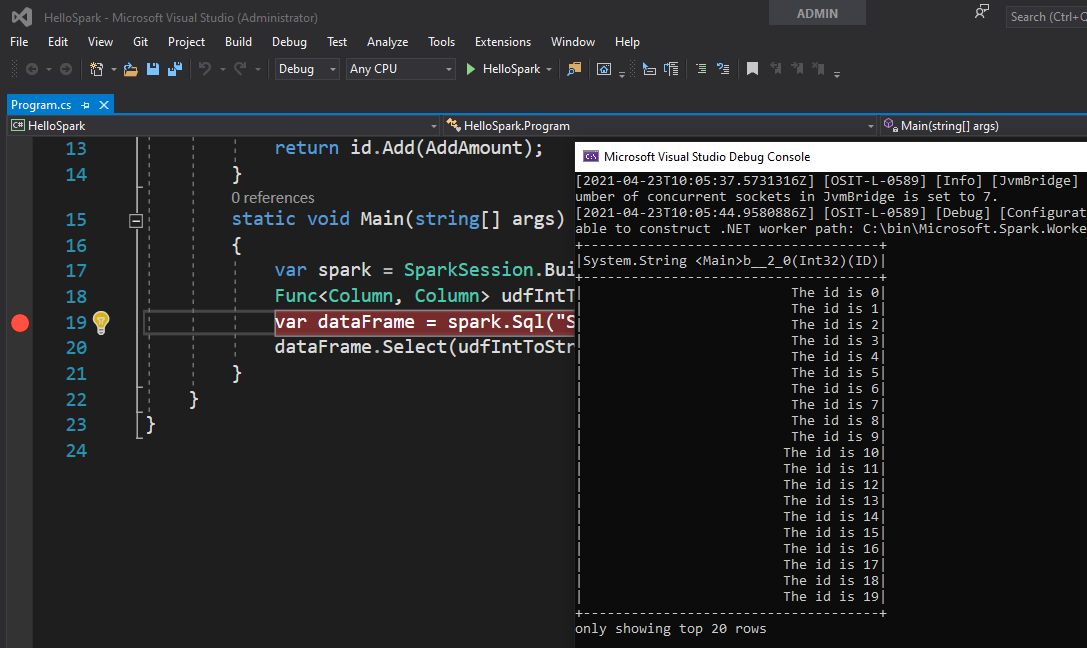
EX:

PS E:\mygithub\sparkdotnetdemos\HelloSpark\bin\Debug\netcoreapp3.1> spark-submit --class org.apache.spark.deploy.dotnet.DotnetRunner --master local microsoft-spark-3-0\_2.12-1.1.1.jar debug



### To Debug in Visual Studio

Open the application code (ex: hellospark) in visual studio and set break point and enjoy debugging



## Useful URLS

<https://dotnet.microsoft.com/learn/data/spark-tutorial/install-spark>

<https://github.com/dotnet/spark/releases>

<https://github.com/dotnet/spark#get-started>

<https://github.com/dotnet/spark/issues/242>

<https://github.com/dotnet/spark/issues/177>

<https://github.com/dotnet/spark/tree/main/deployment#preparing-your-spark-net-app>

Introducing .NET for Apache Spark Book

<https://www.apress.com/gp/book/9781484269916>

https://www.red-gate.com/simple-talk/dotnet/net-development/apache-spark-for-net-developers/