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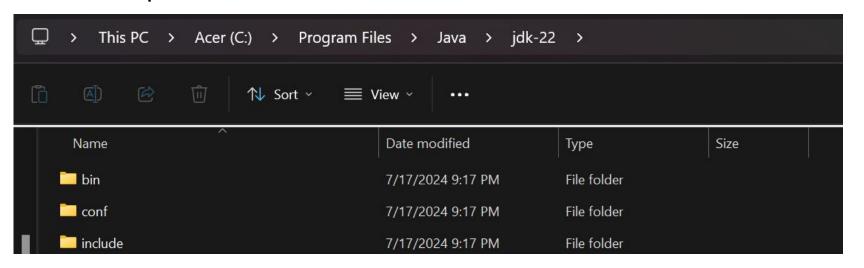


Java Development Kit

Instalar

https://www.oracle.com/java/technologies/downloads/#jdk22-linux

- Agregar al path
 - Ubicar carpeta donde se instaló



Editar variables de entorno



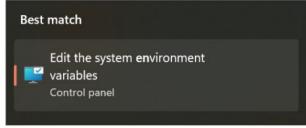


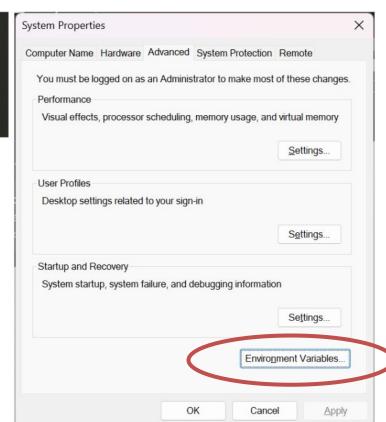
Java Development Kit

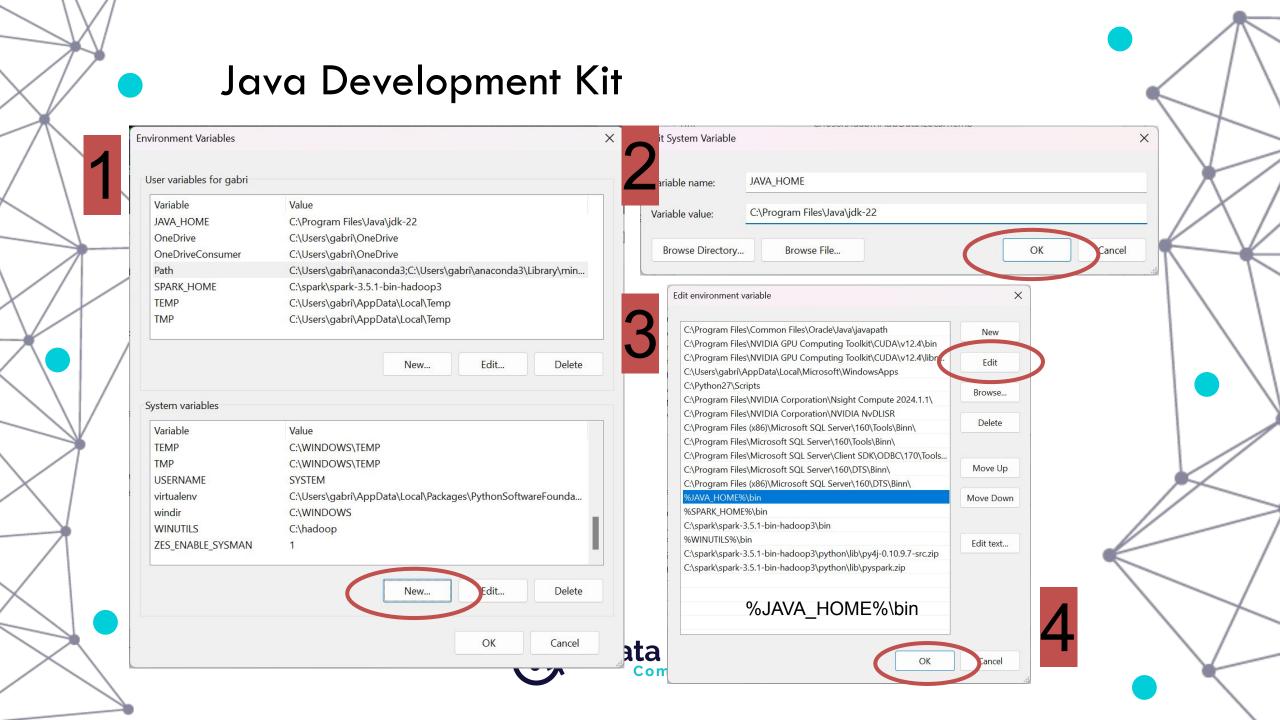
Instalar

https://www.oracle.com/java/technologies/downloads/#jdk22-windows

- Agregar al path
 - Ubicar carpeta donde se instaló: C:\Program Files\Java\jdk-22
 - Editar variables de entorno

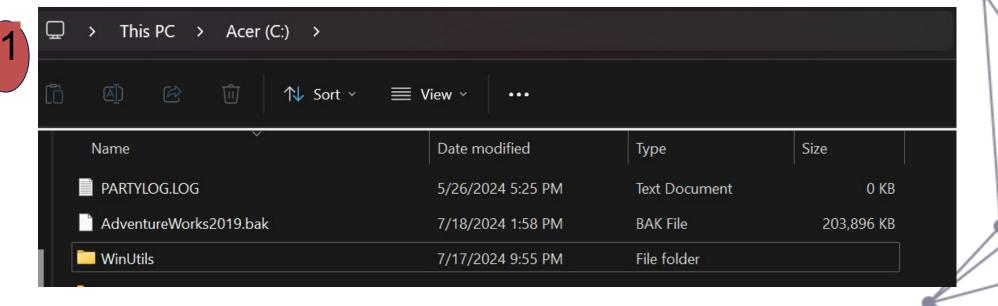




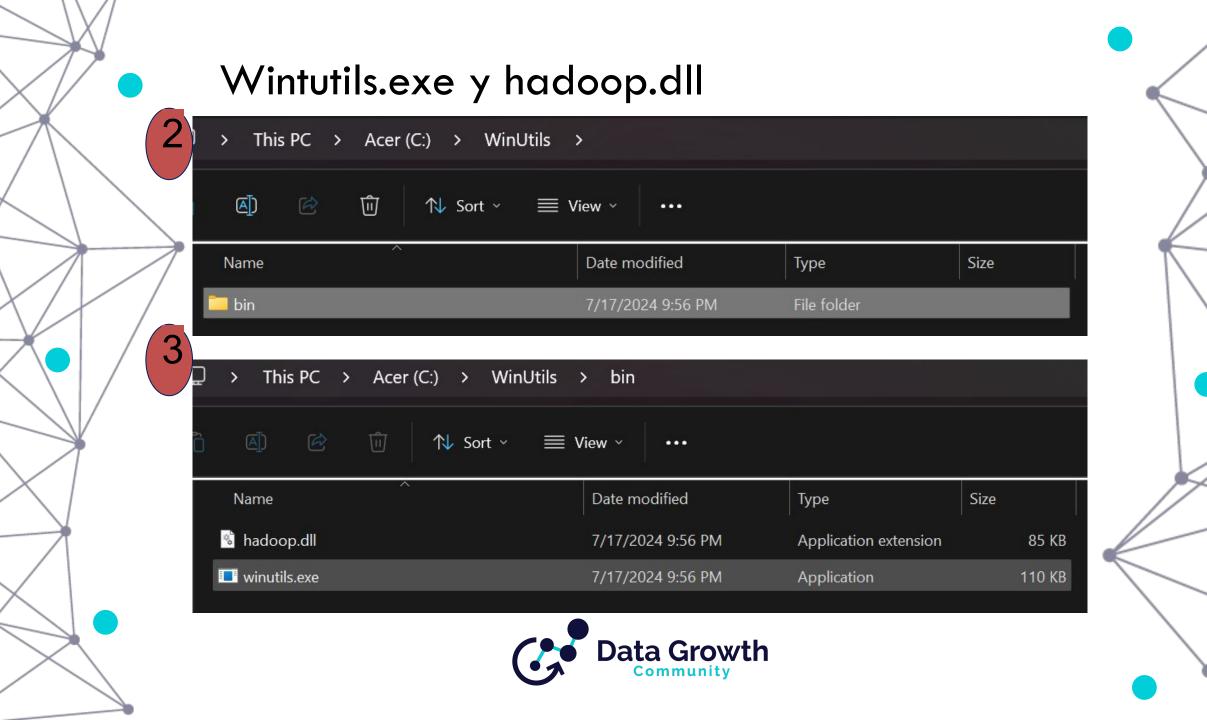


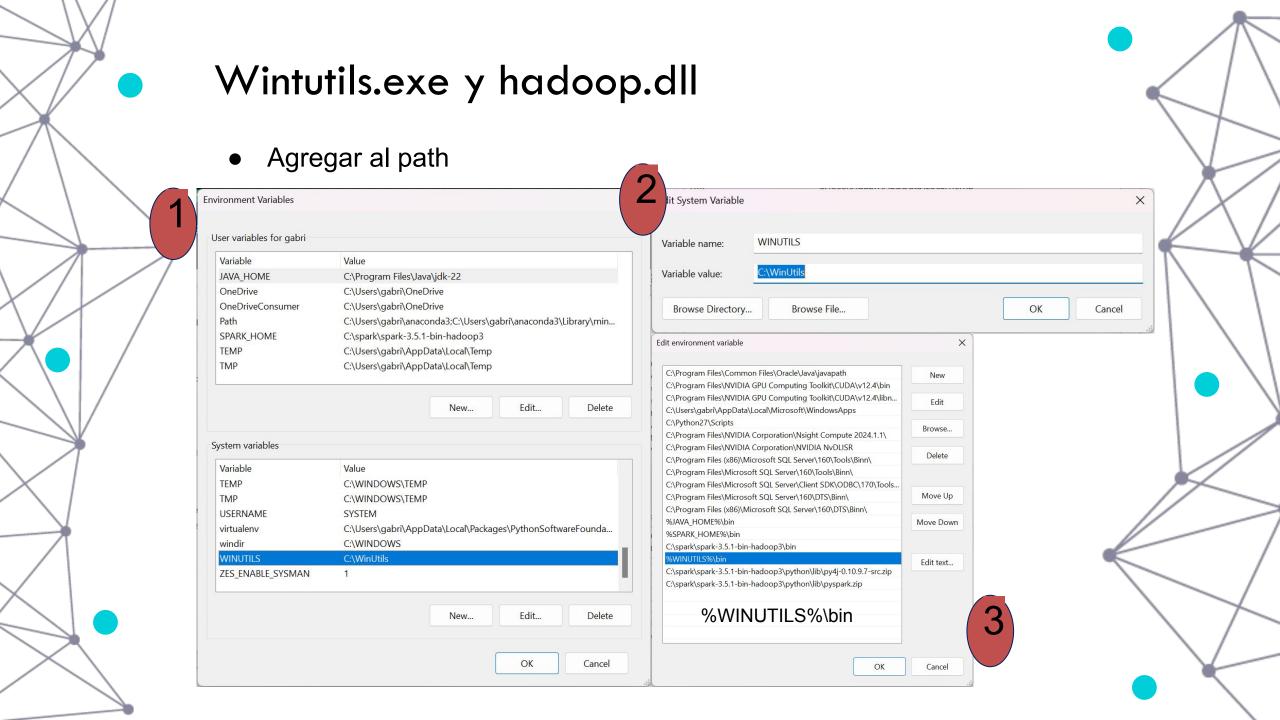


- https://github.com/kontext-tech/winutils/blob/master/hadoop-3.3.0/bin/winutils.exe
- https://github.com/kontext-tech/winutils/blob/master/hadoop-3.3.0/bin/hadoop.dll











SPARK

https://www.apache.org/dyn/closer.lua/spark/spark-3.5.1/spark-3.5.1-bin-hadoop3.tgz

Creamos una carpeta en C:\spark y extraemos
Agregamos a las variables de entorno SPARK_HOME y al path %SPARK_HOME%\bin

C:\spark\spark-3.5.1-bin-hadoop3\python\lib\py4j-0.10.9.7-src.zip

C:\spark\spark-3.5.1-bin-hadoop3\python\lib\pyspark.zip

Abrimos SQL Server Configuration





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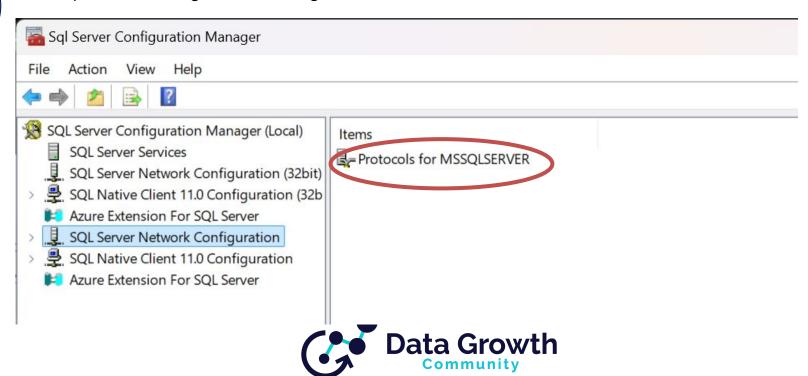
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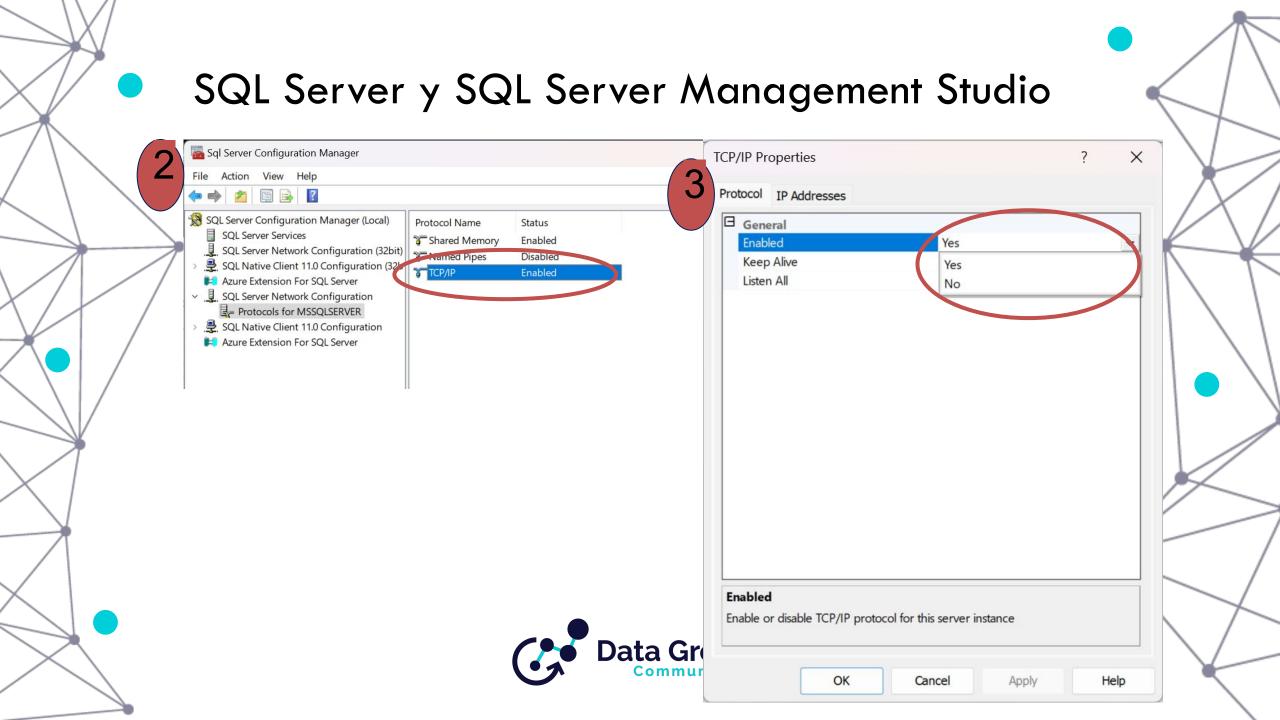


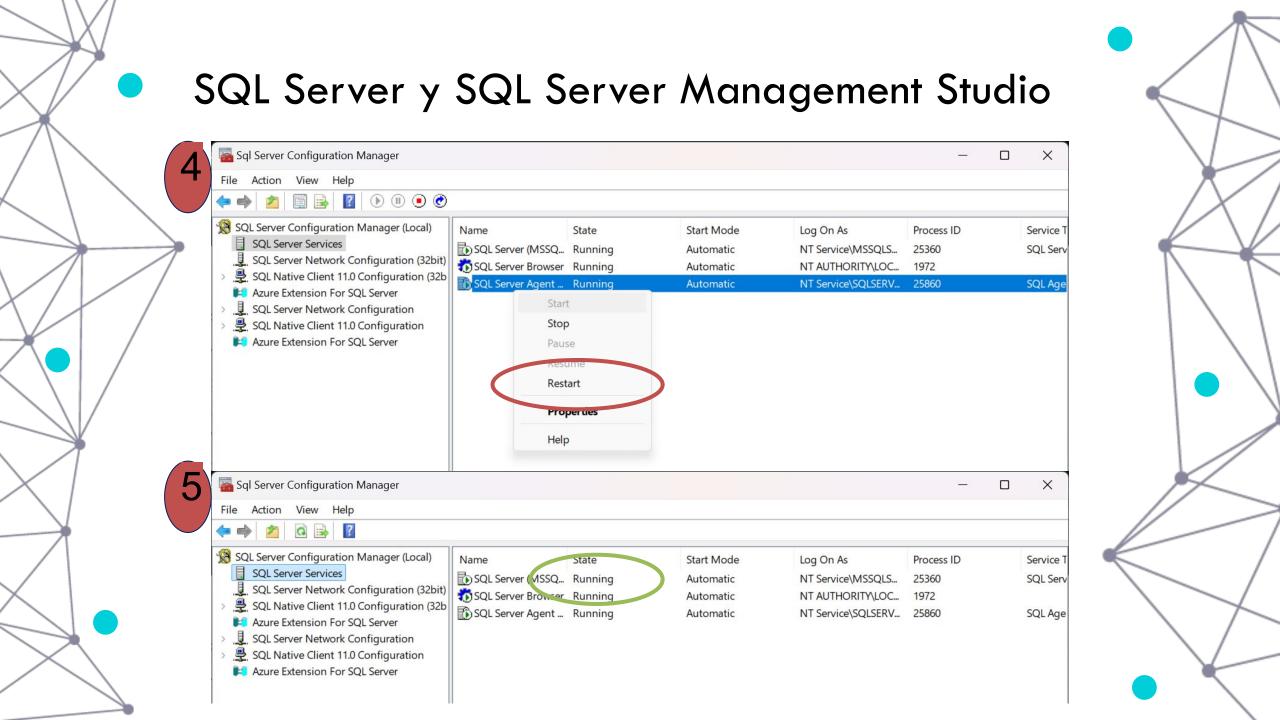
SQL Server y SQL Server Management Studio

- SQL Server: https://www.microsoft.com/es-es/sql-server/sql-server-downloads
- SQL Server Management Studio: https://learn.microsoft.com/es-es/sql/ssms/download-sql-server-management-studio-ssms?view=sql-server-ver16#download-sql-ssms

Abrir Sql Server Configuration Manager









Driver JDBC para MSSQL (Microsoft SQL Server)

https://learn.microsoft.com/en-us/sql/connect/jdbc/download-microsoft-jdbc-driver-for-sql-server?view=sql-server-ver16

Extraemos en una carpeta y anotamos el path al archivo: "\enu\jars\mssql-jdbc-12.6.3.jre8.jar"



Python

```
try:
    spark = SparkSession.builder \
        .appName(appName) \
        .config("spark.jars", "C:\\JDBC_sql_server\\sqljdbc_12.6\\enu\\mssql-jdbc-12.6.3.jre8.jar") \
        .getOrCreate()

except Exception as e:
    print(e)
```





"Potenciando el crecimiento colectivo"

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¡Gracias!