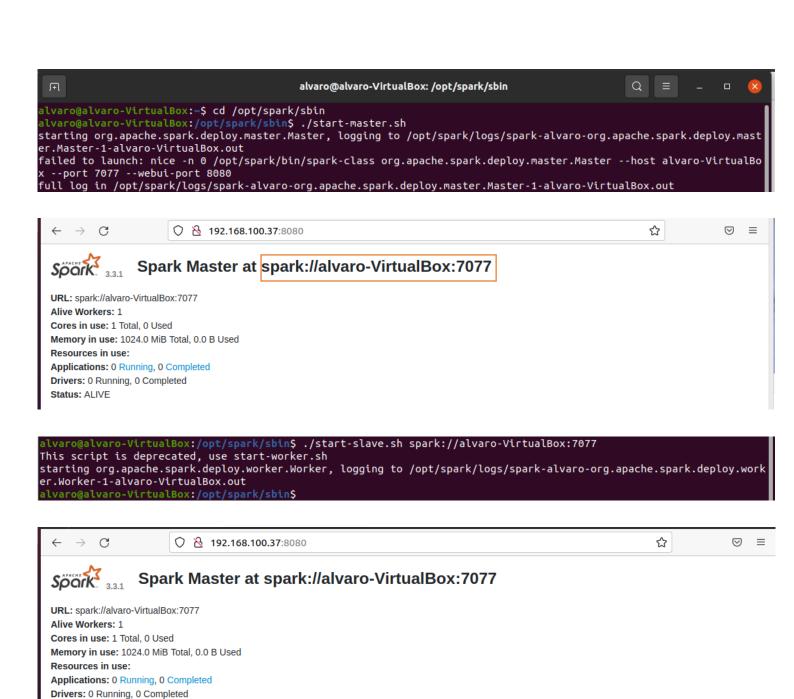
1. En una máquina virtual realice la configuración de apache spark, puede guiarse en cualquier tutorial o el proporcionado por el docente.

url: https://computingforgeeks.com/how-to-install-apache-spark-on-ubuntu-debian/



Address

192.168.100.37:39785

State

ALIVE

Cores

1 (0 Used)

Memory

1024.0 MiB (0.0 B Used)

Resources

Status: ALIVE

→ Workers (1)Worker Id

worker-20221212005403-192.168.100.37-39785

Con el shell podra ejecutar scala por defecto

Instale Python para spark

```
alvaro@alvaro-VirtualBox: /opt/spark/bin
                                             alvaro@alvaro-VirtualBox: /opt/spar... ×
  alvaro@alvaro-VirtualBox: /opt/spar...
                                                                                         alvaro@alvaro-VirtualBox: /opt/spar...
 alvaro@alvaro-VirtualBox:/opt/spark/bin$ ./pyspark
Python 3.8.10 (default, Nov 14 2022, 12:59:47)
[GCC 9.4.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
22/12/12 01:12:21 WARN Utils: Your hostname, alvaro-VirtualBox resolves to a loopback address: 127.0.1.1; using 192.
168.100.37 instead (on interface enp0s3)
22/12/12 01:12:21 WARN Utils: Set SPARK_LOCAL_IP if you need to bind to another address
Setting default log level to "WARN".
To adjust logging level use sc.setLogLevel(newLevel). For SparkR, use setLogLevel(newLevel).
22/12/12 01:12:25 WARN NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-jav
a classes where applicable
22/12/12 01:12:28 WARN Utils: Service 'SparkUI' could not bind on port 4040. Attempting port 4041.
Welcome to
                                  version 3.3.1
Using Python version 3.8.10 (default, Nov 14 2022 12:59:47)
Spark context Web UI available at http://192.168.100.37:4041
Spark context available as 'sc' (master = local[*], app id = local-1670821949347).
SparkSession available as 'spark'.
>>>
```