

Install Spark and Jupyter notebook.

DISCLAIMER

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INTRODUCTION

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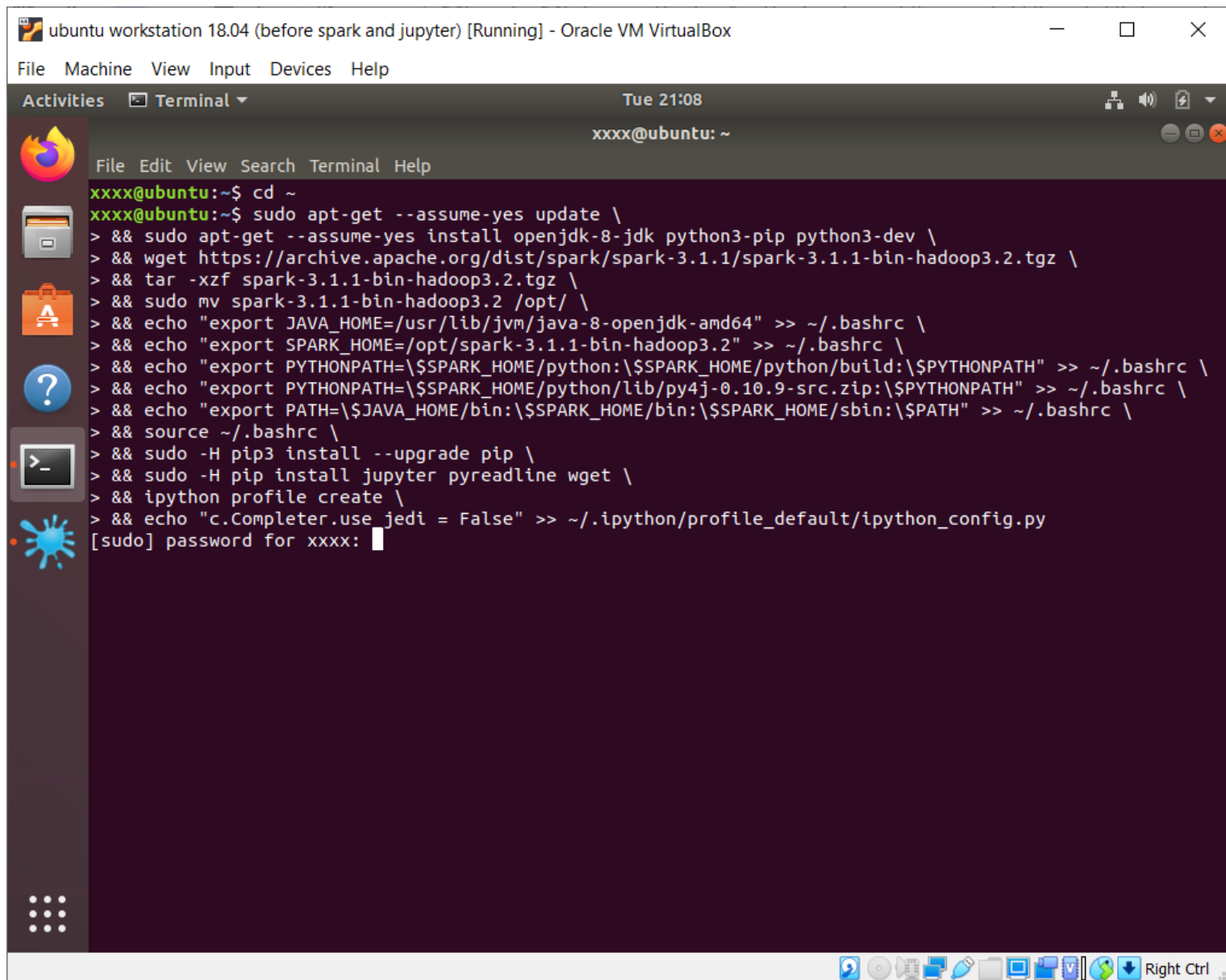
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1. Start your Ubuntu virtual machine from VirtualBox. Login using the password and user name.
2. Visit this link and copy the entire command text from it

<https://github.com/tech2talk/vms-and-containers/blob/main/spark/spark-and-jupyter-setup-cmd>

Open a terminal and then paste the command you copied earlier to setup Spark & Jupyter notebook. Hit Enter to run these commands.

Enter the password when prompted on the shell. It will take some time so let it run.



- Once the setup is complete, type the following command in the shell window which is open.

```
mkdir -p ~/work/pyspark
```

The command above will create a directory called “work” in your home folder on Linux and then create a sub directory called “pyspark” within work directory.

4. Navigate to the newly created pyspark directory using the following command.

```
cd ~/work/pyspark
```

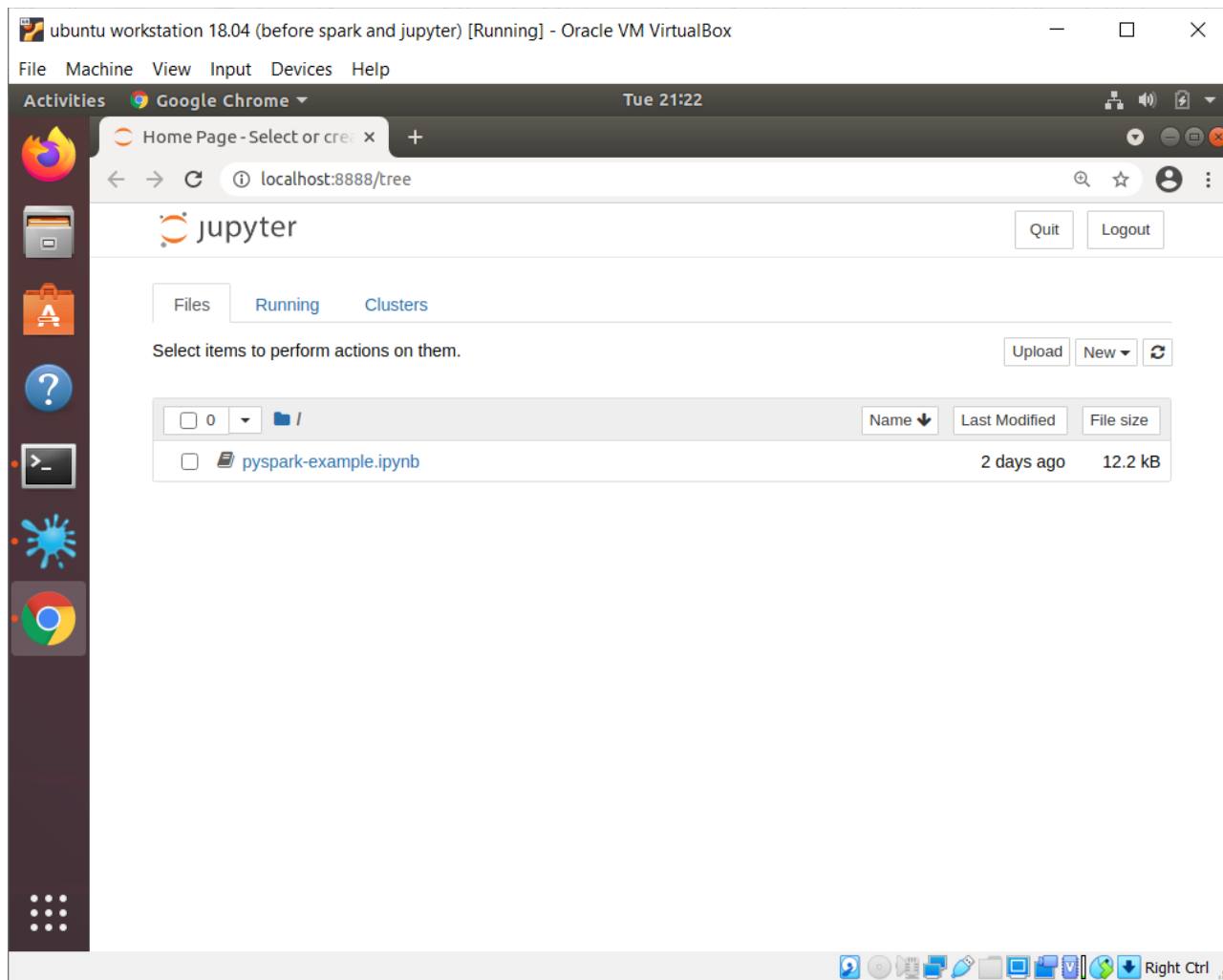
5. Type the following command to download a sample exercise for Spark.

```
wget https://raw.githubusercontent.com/tech2talk/vms-and-containers/main/spark/pyspark-example.ipynb
```

6. Type the following command to start Jupyter notebook.

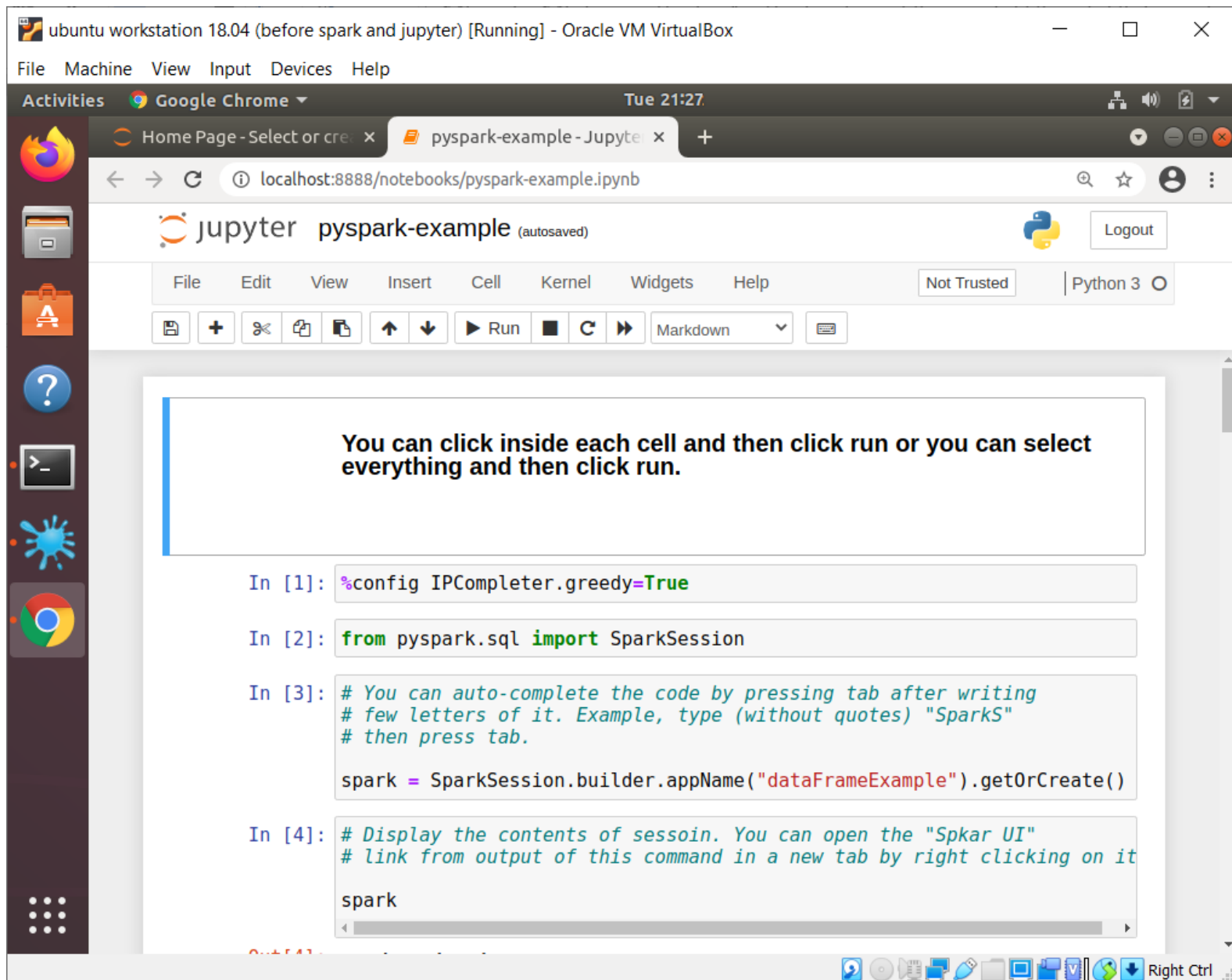
```
jupyter notebook
```

It will start a new browser window like below. If it does not start then there might be an issue with the Step 2 setup.



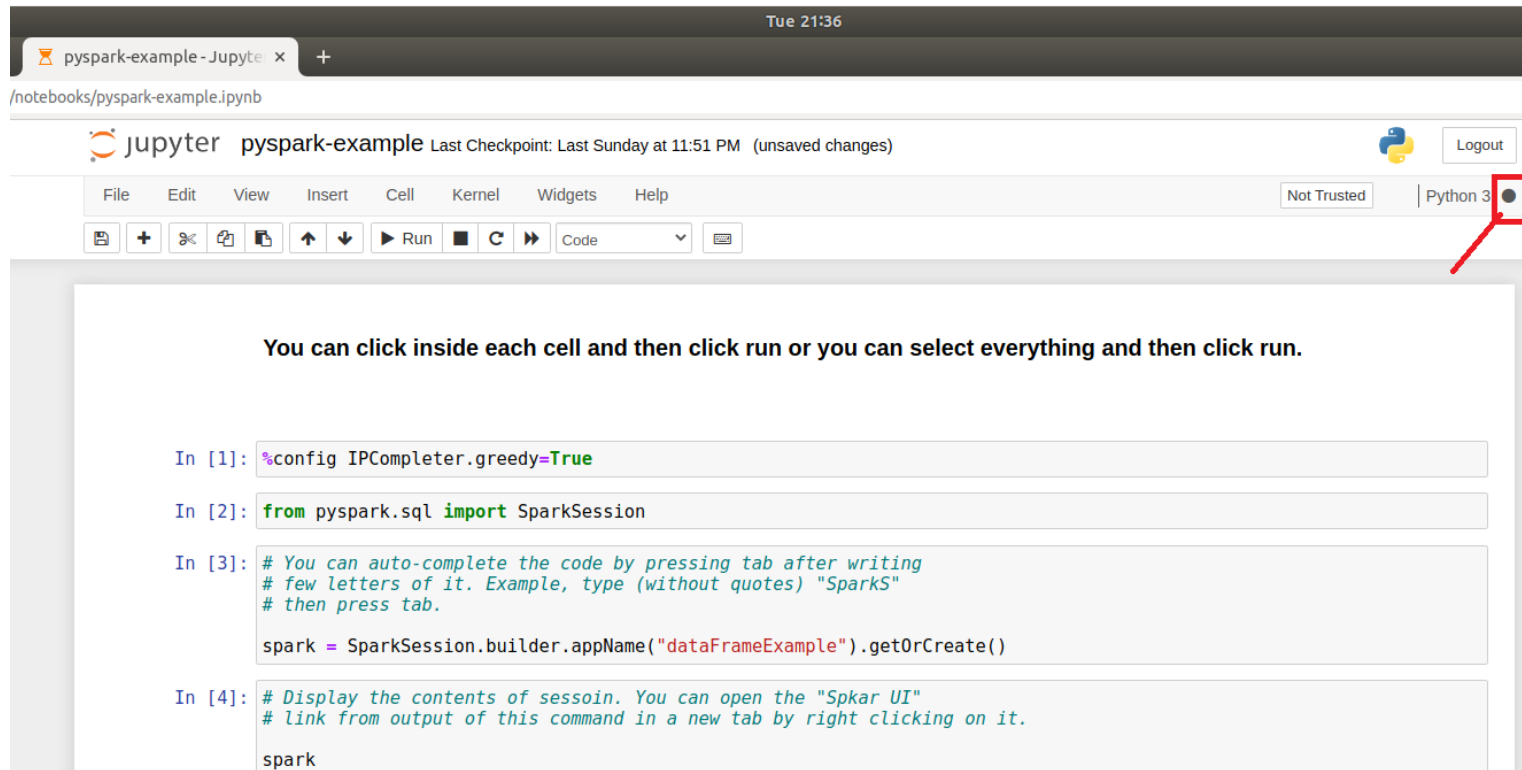
7. Click on the "pyspark-exmple.ipynb" to open the notebook. If you don't see this file then there might be an issue with Step 5.

It will open the notebook like below.



8. Follow the directions on the notebook to run the example code.

9. While the notebook is running command(s), the dot on the right upper corner will turn solid black.



Output of each command will be displayed below it.