

Taller de Preparación para Obtener la Certificación de Apache Spark CCA175 – by Datahack

1. Descargar e Instalar Vagrant: https://www.vagrantup.com/downloads

Información de que es Vagrant y para que lo usaremos:

https://www.youtube.com/watch?v=Ud7cmVCNACE&ab_channel=makigas%3Atutorialesdeprogramaci%C3%B3n

- 2. Descargar e Instalar: https://www.virtualbox.org/wiki/Downloads
- 3. Crear una Carpeta en el directorio D:/spark
- 4. Usar la consola "CMD" para ubicarte dentro del directorio:



5. Ejecutar el comando "vagrant init"

```
Microsoft Windows [Versión 10.0.16299.15]
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C:\Users\Usuario>d:

D:\>cd spark

D:\spark>vagrant init

A `Vagrantfile` has been placed in this directory. You are now ready to `vagrant up` your first virtual environment! Please read the comments in the Vagrantfile as well as documentation on `vagrantup.com` for more information on using Vagrant.

D:\\spark>
```



6. Dentro de la carpeta D:/spark se creará un file que diga Vagrantfile y lo editaremos con el siguiente texto en su contenido:

```
# -*- mode: ruby -*-
# vi: set ft=ruby :

Vagrant.configure("2") do |config|
config.vm.box = "itversity/centos7spark"
config.vm.network "forwarded_port", guest: 8888, host: 8888
config.vm.network "forwarded_port", guest: 4040, host: 4040

config.vm.provider "virtualbox" do |vb|
   vb.cpus = "2"
   vb.memory = "4096"
end
end
```



 Dentro de la consola CMD ejecutar: vagrant up (se descargará todo el contenido de la VM). Esto tardará unos minutos o un par de horas dependiendo de tu velocidad de internet

```
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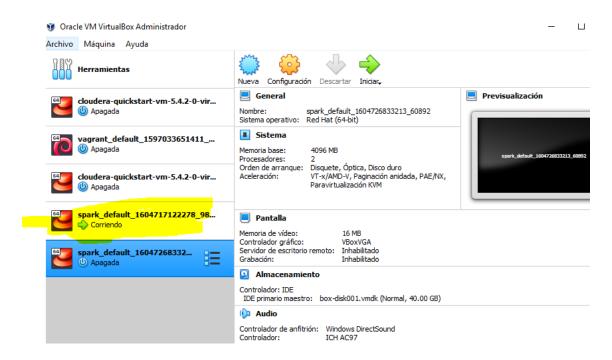
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D:\spark>vagrant up

Bringing machine 'default' up with 'virtualbox' provider...
==> default: Importing base box 'itversity/centos7spark'...
```

Y se creará una Maquina virtual en VirtualBox





8. Dentro de la consola CMD ejecutar: vagrant ssh

Con esto podemos ingresar a la VM y utilizar el entorno.

```
D:\Jesus\spark>vagrant ssh
[vagrant@localhost ~]$ spark-shell
2020-11-07 04:56:17,666 WARN util.Utils: Your hostname, localhost.localdomain re
s to a loopback address: 127.0.0.1; using 10.0.2.15 instead (on interface eth0)
2020-11-07 04:56:17,666 WARN util.Utils: Set SPARK_LOCAL_IP if you need to bind
other address
2020-11-07 04:56:18,030 WARN util.NativeCodeLoader: Unable to load native-hadoop
ary for your platform... using builtin-java classes where applicable
Setting default log level to "WARN".
To adjust logging level use sc.setLogLevel(newLevel). For SparkR, use setLogLeve
Level).
Spark context Web UI available at http://10.0.2.15:4040
Spark context available as 'sc' (master = local[*], app id = local-1604724986302
Spark session available as 'spark'.
Welcome to
                               version 2.4.5
Using Scala version 2.11.12 (OpenJDK 64-Bit Server VM, Java 1.8.0_242)
Type in expressions to have them evaluated.
Type :help for more information.
```

Ya estamos listos para empezar con la práctica.