

Hbase - configurando local - windows

Passos:

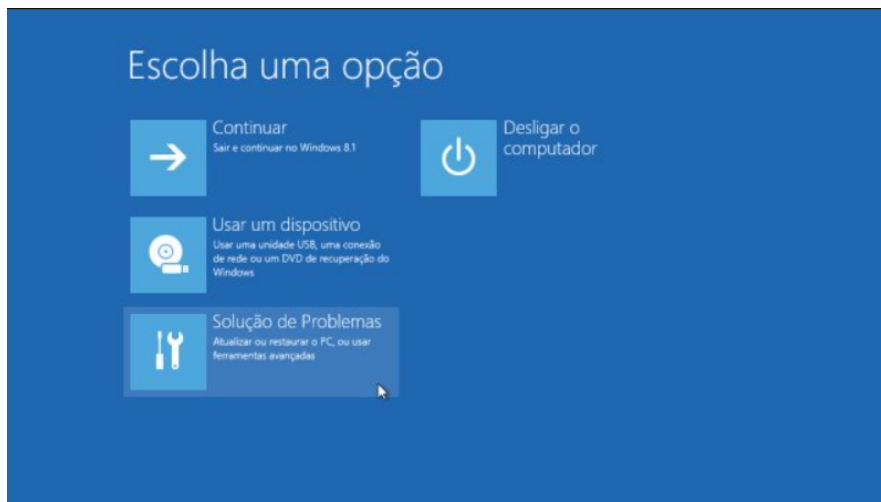
- 1 - habilitar virtualização na bios
- 2 - instalar o wsl2 - ubuntu
- 3 - instalar o docker desktop
- 4 - baixara imagem do hbase: `docker pull harisekhon/hbase:1.3`
- 5 - rodar o hbase com o comando:
- 6 - startar o hbase no container
- 7 - adicionar o nome gerado pelo node master no `/etc/hosts`
- 8 - escutando logs de dentro do container
- 9 - client do java

1 - Para habilitar a virtualização, reinicie sua máquina.

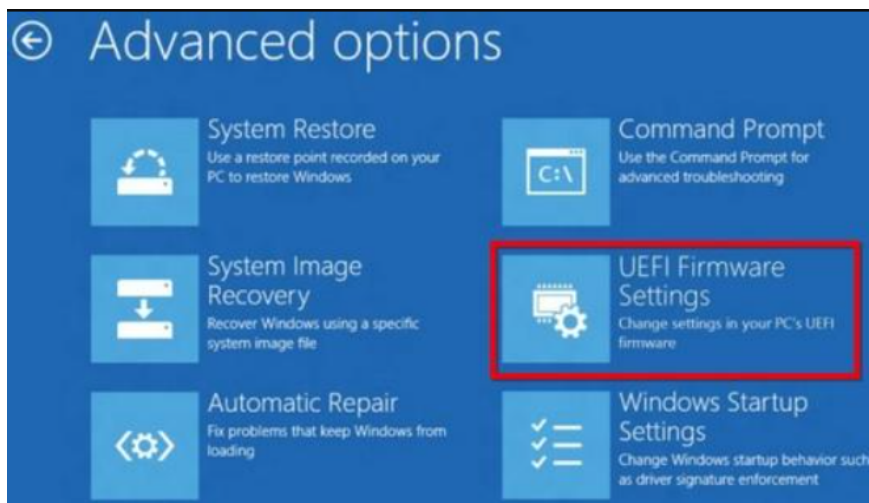
quando estiver na tela de login, reinicie novamente segurando a tecla **shift**

ao iniciar vc vai ver a seguinte tela, ou algo parecido com isso:

selecione "solução de problemas"



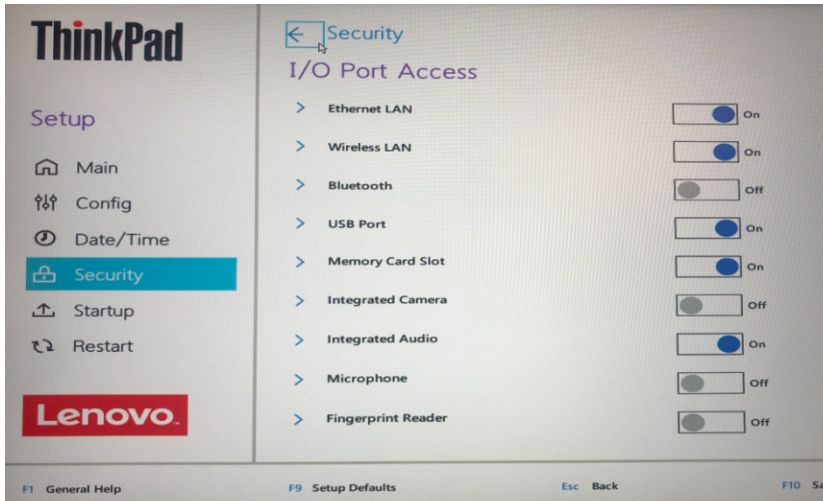
depois: "UEFI firmware settings"



Após isso você estará dentro da bios do sistema, procure pela configuração de virtualização,

Habilite a configuração "V", provavelmente vai estar dentro de config ou security,

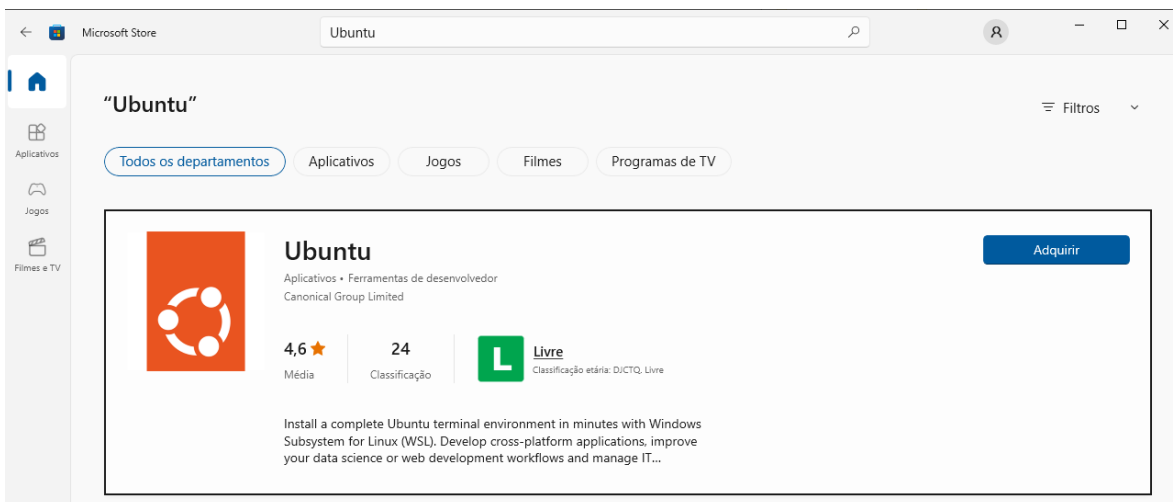
<pegar nova imagem com a conf do jaff>



Após habilitar salve e reinicie a máquina.

2 - instalar o WLS2

Baixe o aplicativo na microsoft store, procure por uma versão LTS - (Long-term support)



Depois de configurar o usuario e senha da sua maquina virtual linux

you'll have a linux shell like this:

mmed@LBR-PE08096D: ~

Welcome to Ubuntu 20.04.3 LTS (GNU/Linux 5.10.16.3-microsoft-standard-WSL2 x86_64)

* Documentation: <https://help.ubuntu.com>
* Management: <https://landscape.canonical.com>
* Support: <https://ubuntu.com/advantage>

System information as of Tue Jun 14 14:34:00 -03 2022

System load:	0.0	Processes:	26
Usage of /:	0.5% of 250.98GB	Users logged in:	0
Memory usage:	10%	IPv4 address for eth0:	172.27.81.65
Swap usage:	0%		

1 update can be applied immediately.

To see these additional updates run: `apt list --upgradable`

The list of available updates is more than a week old.

To check for new updates run: `sudo apt update`

This message is shown once a day. To disable it please create the
/home/mmed/.hushlogin file.

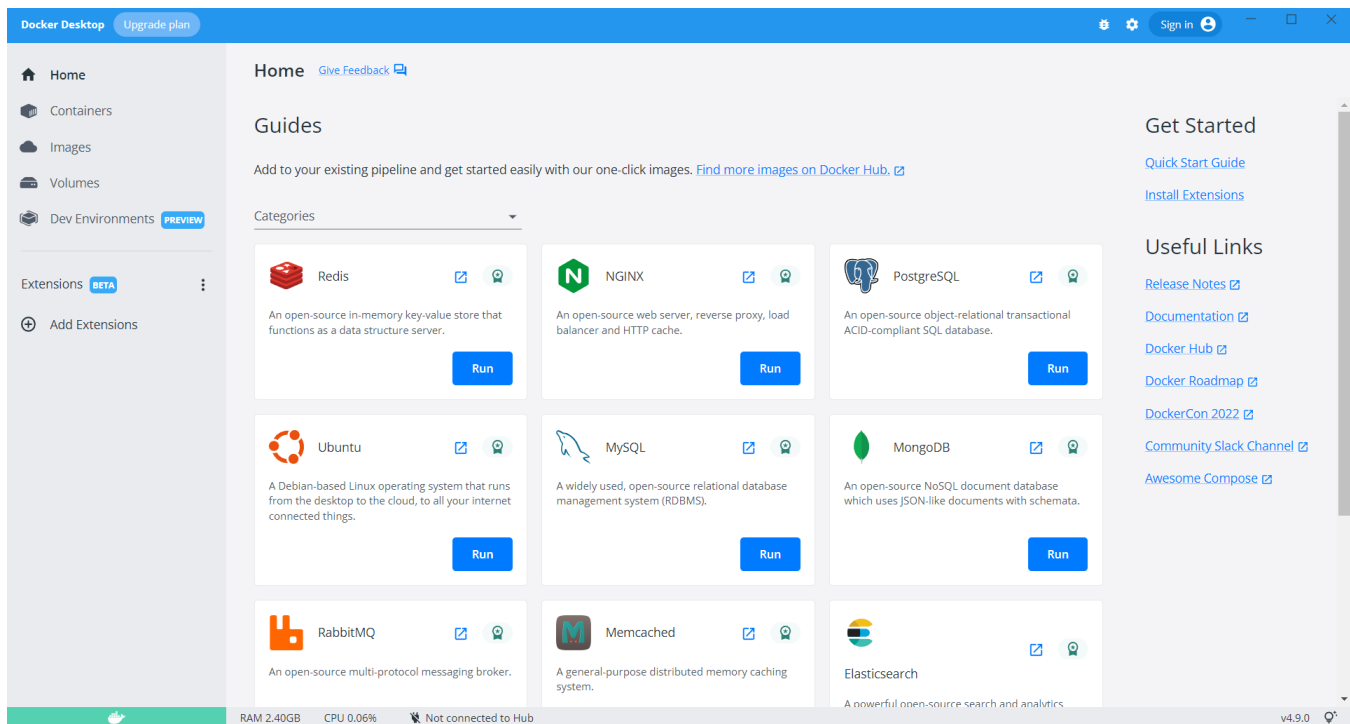
mmed@LBR-PE08096D:~\$

3 - instalar o docker

acesse: <https://www.docker.com/products/docker-desktop/>

baixe o docker para windows e instale.

ao instalar você verá algo parecido com :



4 - baixe a imagem do hbase com o seguinte comando no terminal linux:

docker pull harisekhon/hbase:1.3

5 - Rode o hbase com esse comando para expor todas as portas necessárias:

docker run -d --name hbase001 -p 2181:2181 -p 16010:16010 -p 16020:16020 -p 16030:16030 -p 16000:16000 harisekhon/hbase:1.3

6 - para startar o serviço do hbase, acesse o container com o comando:

docker exec -it hbase001 bash

depois acesse o diretório:

cd /hbase-1.3.2/bin

```
Select mmed@LBR-PE08096D: ~
bash-4.4#
bash-4.4# cd /hbase-1.3.2/bin
bash-4.4# ./start-hbase.sh
localhost: /hbase-1.3.2/bin/zookeepers.sh: line 52: ssh: command not found
starting master, logging to /hbase-1.3.2/bin/./logs/hbase--master-f74001afde02.out
OpenJDK 64-Bit Server VM warning: ignoring option PermSize=128m; support was removed in 8.0
OpenJDK 64-Bit Server VM warning: ignoring option MaxPermSize=128m; support was removed in 8.0
starting regionserver, logging to /hbase-1.3.2/bin/./logs/hbase--1-regionserver-f74001afde02.out
bash-4.4#
```

E rode o comando para startar o hbase.

```
./start-hbase.sh
```

7 - após todas as configurações

você deve conseguir acessar a seguinte url:

<http://localhost:16010/master-status>

você verá algo como:

localhost:16010/master-status

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HBase Configuration

Master f74001afde02

Region Servers

Base Stats

Memory

Requests

Storefiles

Compactions

ServerName	Start time	Version	Requests Per Second	Num. Regions
f74001afde02,16201,1655228820609	Tue Jun 14 17:47:00 GMT 2022	1.3.2	0	3
Total: 1			0	3

Dead Region Servers

ServerName	Stop time
f74001afde02,16020,1655149523688	Tue Jun 14 17:47:05 GMT 2022
Total: servers: 1	

Backup Masters

ServerName	Port	Start Time
Total: 0		

Tables

User Tables

System Tables

Snapshots

1 table(s) in set. [\[Details\]](#)

Pegue o nome do master node, por exemplo: **f74001afde02**

e adicione no seu `/etc/hosts` do windows:

```
MINGW64:/c/Windows/System32/drivers/etc
hosts
msanto20@LBR-PE08096D MINGW64 ~
$ hosts
msanto20@LBR-PE08096D MINGW64 /c/Windows/System32/drivers/etc
$ ls
hosts  hosts.ics  lmhosts.sam  networks  protocol  services
msanto20@LBR-PE08096D MINGW64 /c/Windows/System32/drivers/etc
$
```

```
MINGW64:/c/Windows/System32/drivers/etc
GNU nano 5.9 hosts
#
# Additionally, comments (such as these) may be inserted on individual
# lines or following the machine name denoted by a '#' symbol.
#
# For example:
#
#       102.54.94.97      rhino.acme.com      # source server
#       38.25.63.10     x.acme.com          # x client host
#
# localhost name resolution is handled within DNS itself.
#       127.0.0.1        localhost
#       ::1              localhost
127.0.0.1 localhost
127.0.0.1 f74001afde02
0.0.0.0 f74001afde02
```

verifique se a alteração foi com sucesso. Acesse novamente a url com o nome do host, por exemplo:

<http://f74001afde02:16010/master-status>

[←](#) [→](#) [↻](#) [🏠](#) [⚠ Not secure](#) | f74001afde02:16010/master-status

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HBASE

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Master f74001afde02

Region Servers

<div>Base Stats Memory Requests Storefiles Compactions</div>				
ServerName	Start time	Version	Request	
f74001afde02,16201,1655228820609	Tue Jun 14 17:47:00 GMT 2022	1.3.2	0	
Total:1			0	

8 - para escutar o log do container execute o comando:

`docker logs --follow hbase001`

9 - o client do java só precisa dessas configurações para se conectar com o hbase local:

```
conf.set("hbase.master", "127.0.0.1");
conf.set("hbase.master.port", "16000");
conf.set("hbase.zookeeper.quorum", "127.0.0.1");
conf.set("hbase.rootdir", "/hbase-data");|
```
