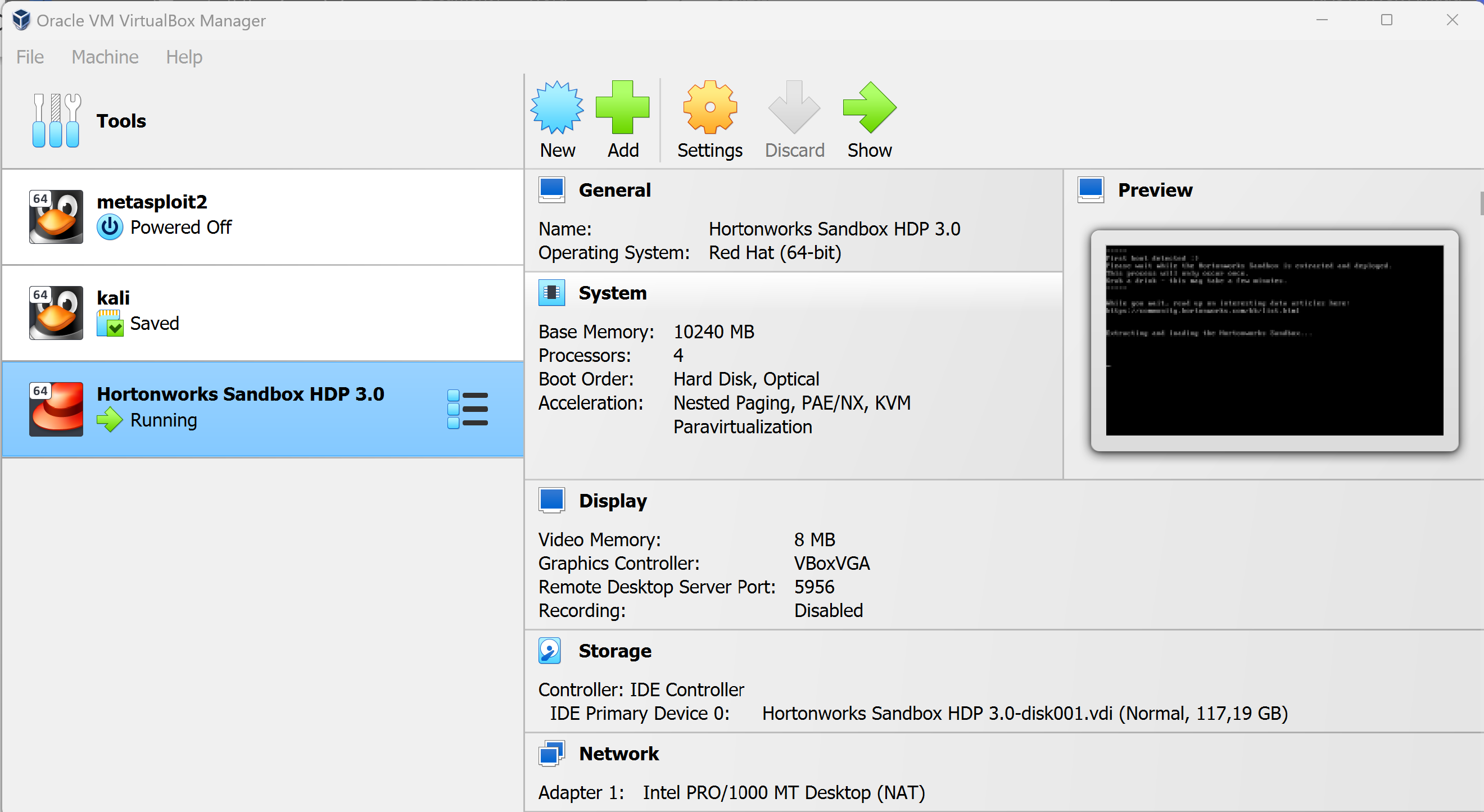
## Installation step 1 :

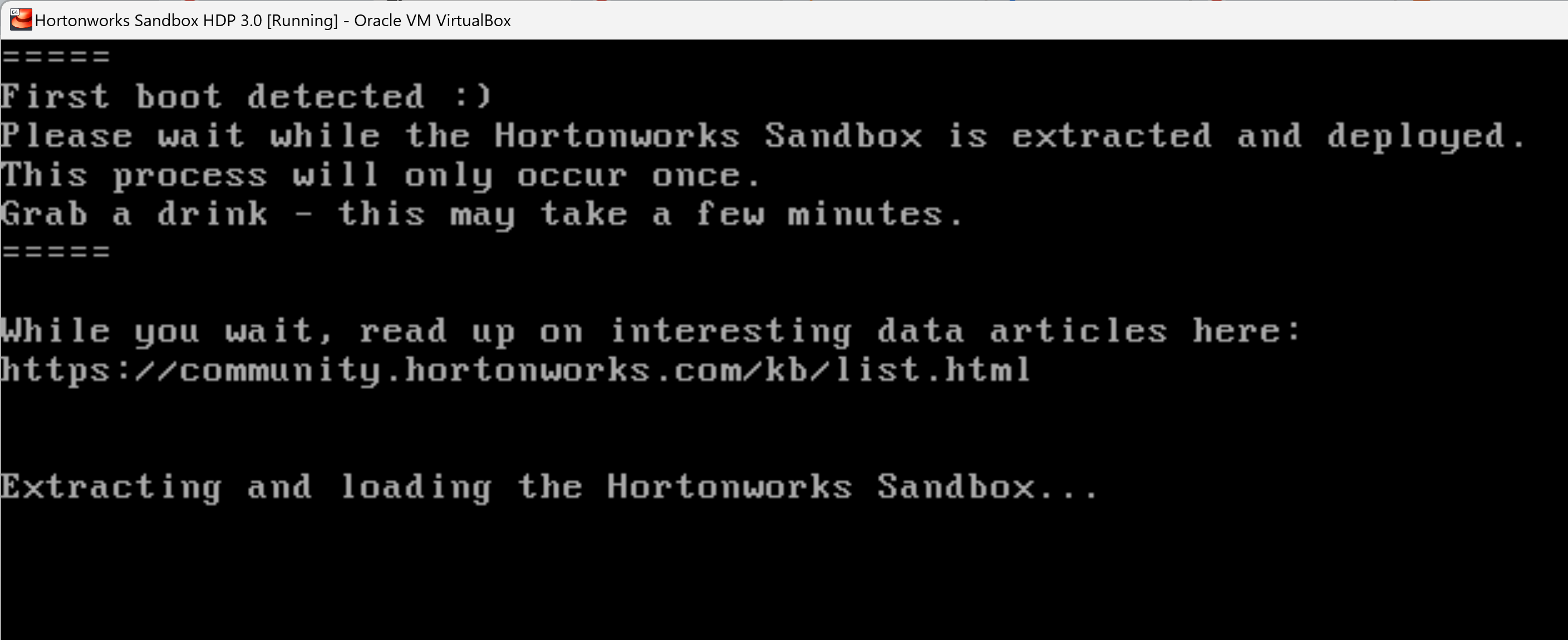
Download VirtualBox image (20 Go ..)

<https://archive.cloudera.com/hwx-sandbox/hdp/hdp-3.0.1/HDP_3.0.1_virtualbox_181205.ova>

Open in VirtualBox



## Booting Virtual Machine HDP (takes hours on first time)



Notice : Login in Terminal to see what is running

Ctrl + Alt + F4

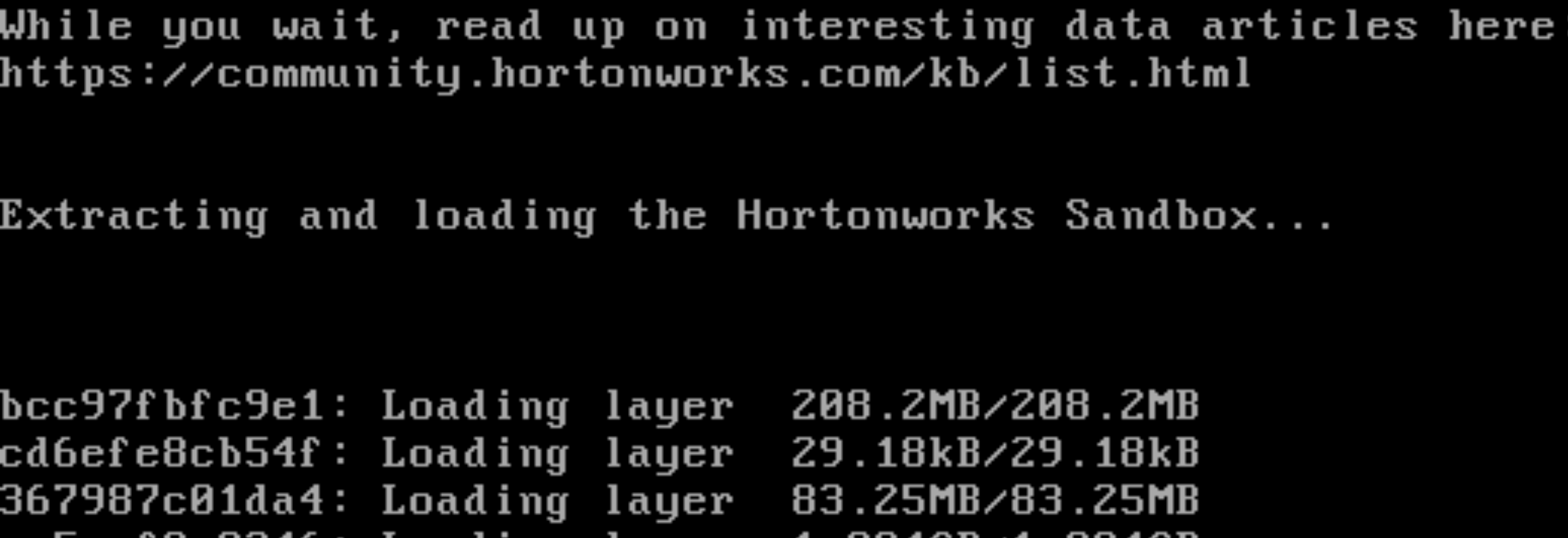
(Use Ctrl + Alt + F1 to go back on boot installation terminal)

Log-in username = “root” / password = “Hadoop”

WARNING: with French keyboard querty instead of azerty => letter “a” is keyboard touch “q”

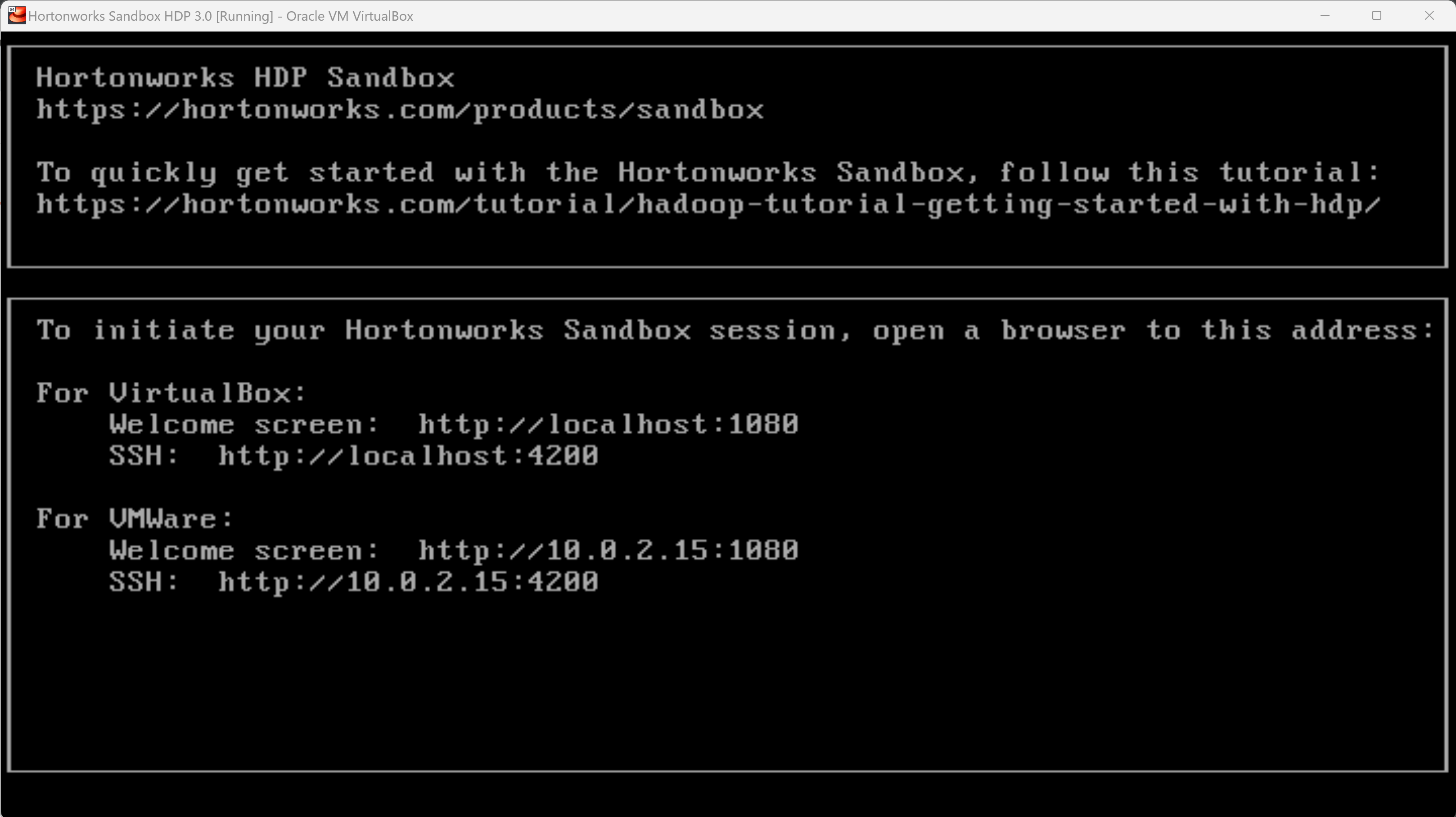
To change the keyboard once logged-in: loadkeys fr

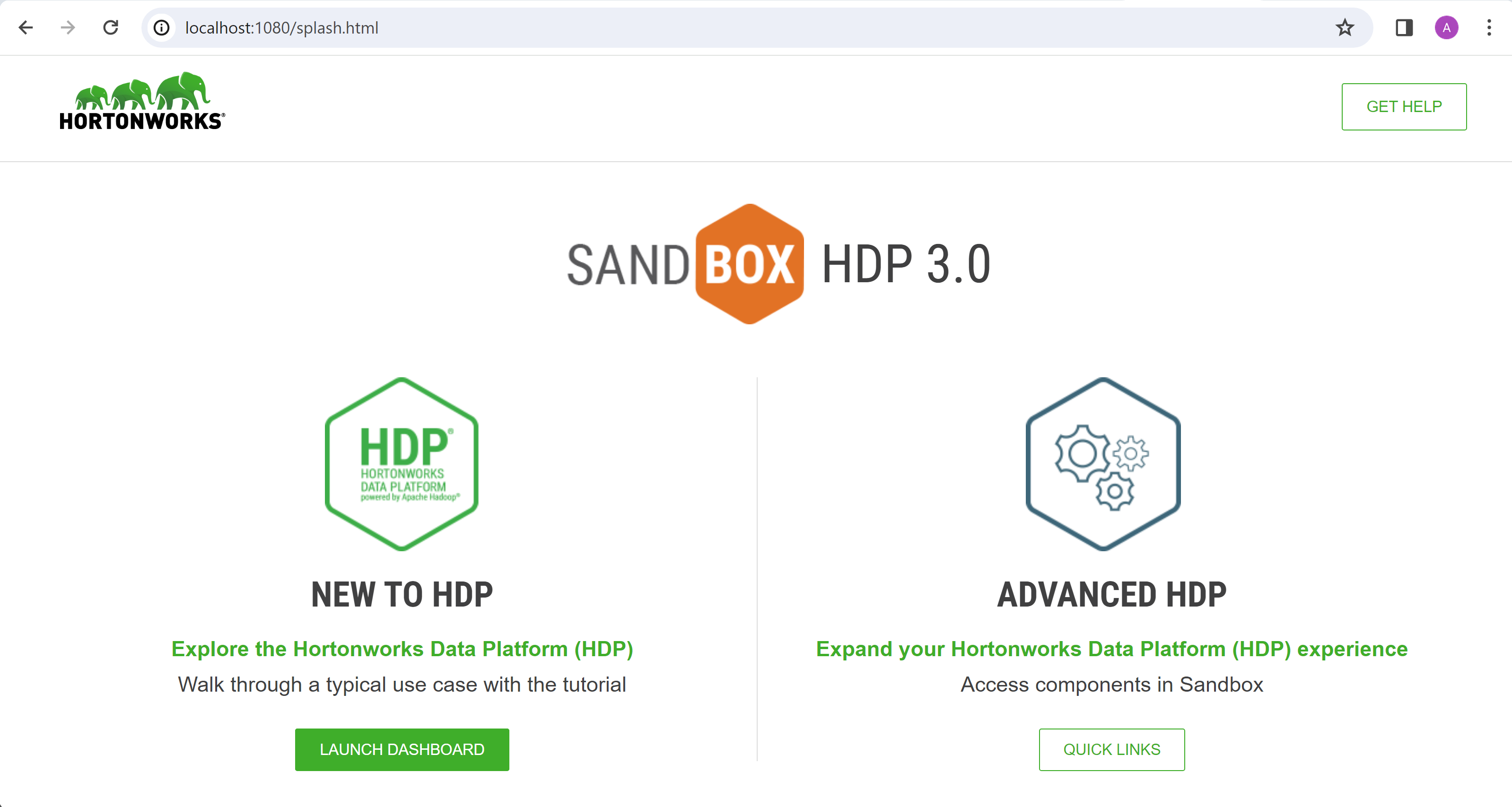
After ~1 hour …



Then after ~3 h



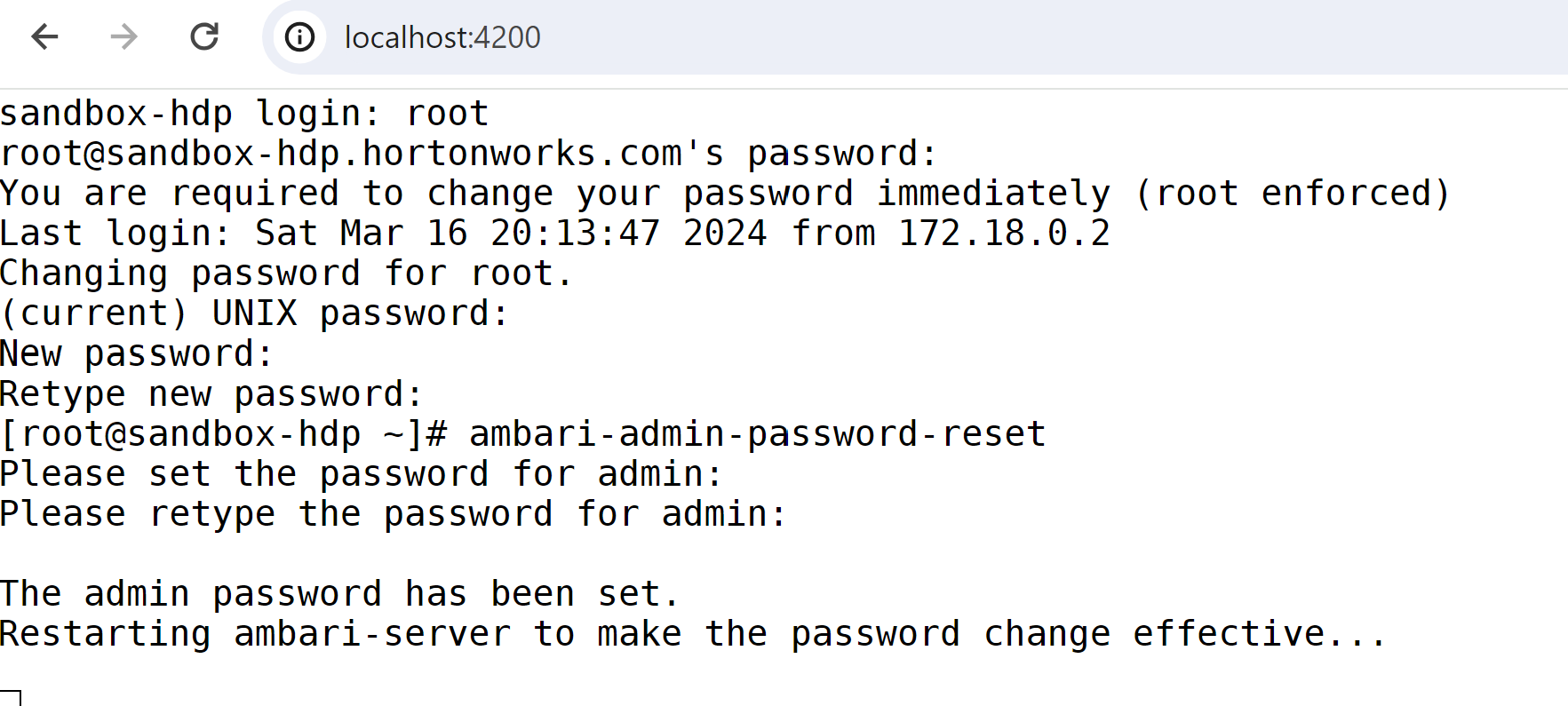




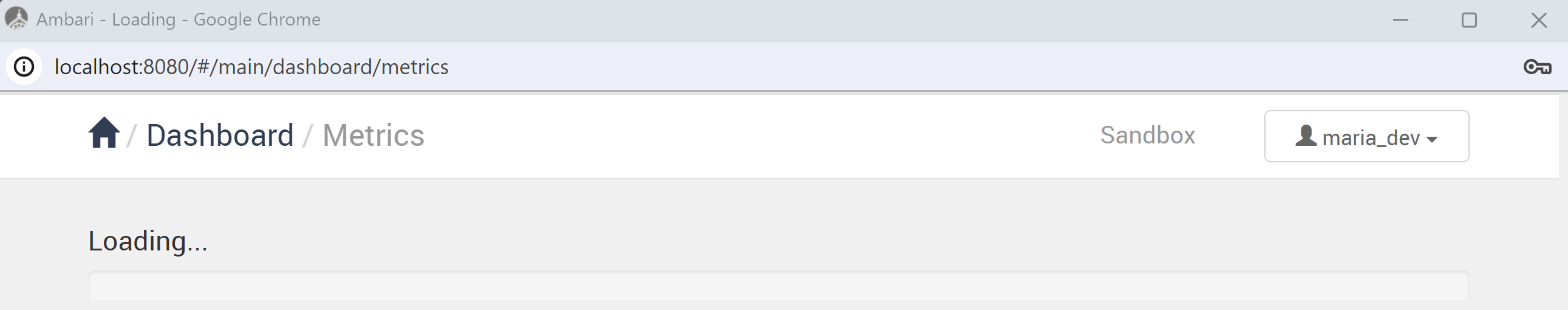
<http://localhost:4200>

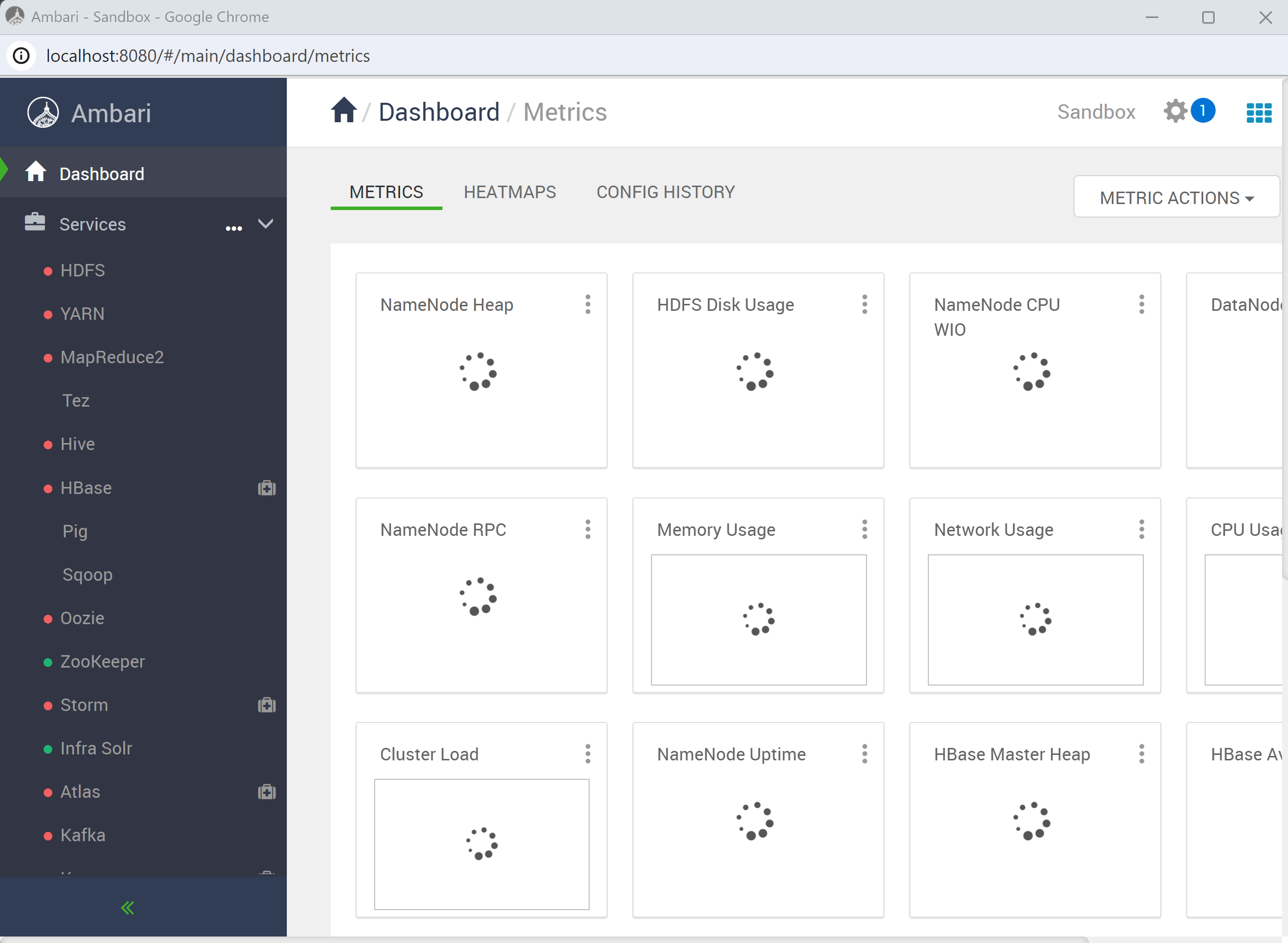
username: root / password : hadoop

Enter new password



Login : maria\_dev / password: maria\_dev





<https://hortonworks.com/tutorial/hadoop-tutorial-getting-started-with-hdp/>

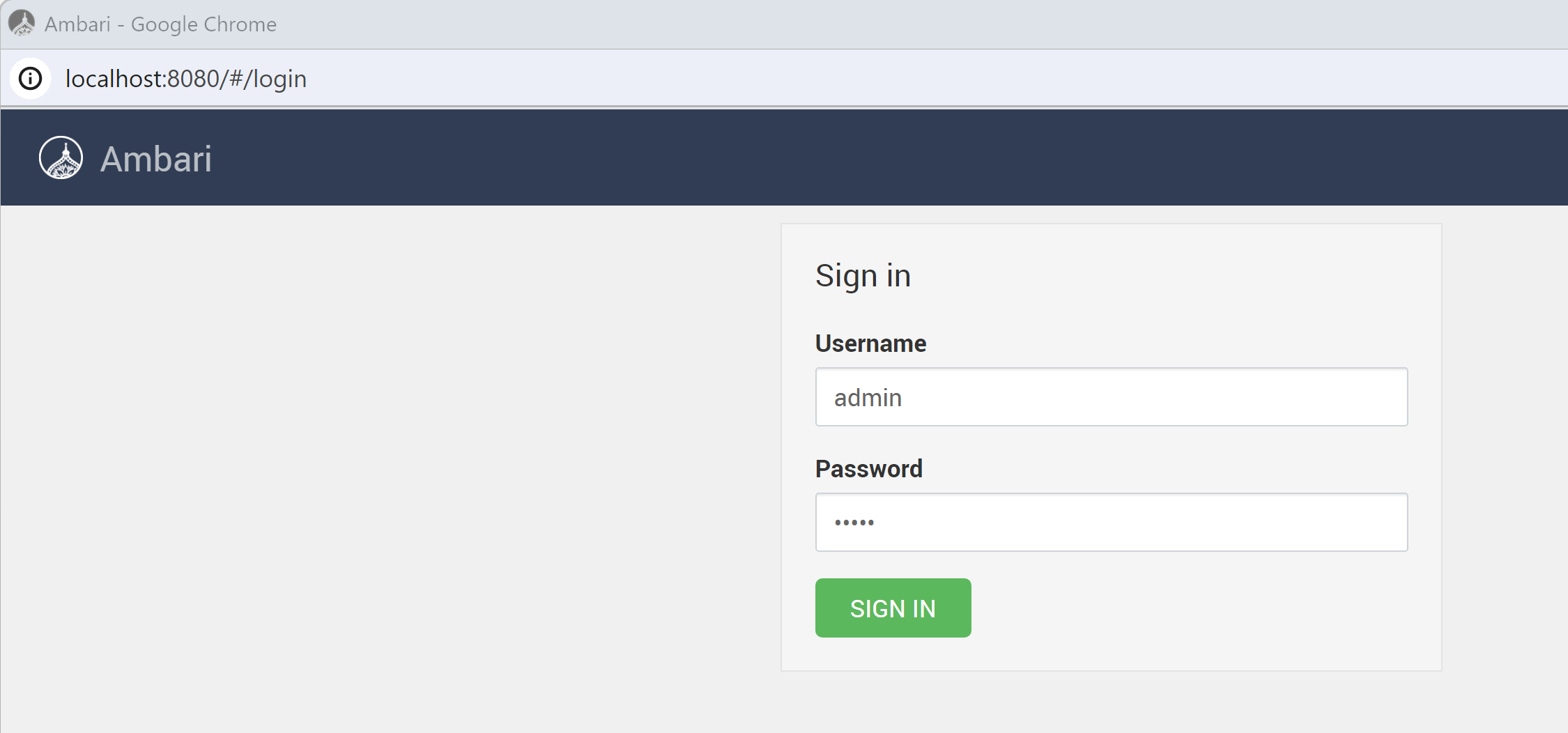
Redirected to : <https://www.cloudera.com/services-and-support/tutorials.html>

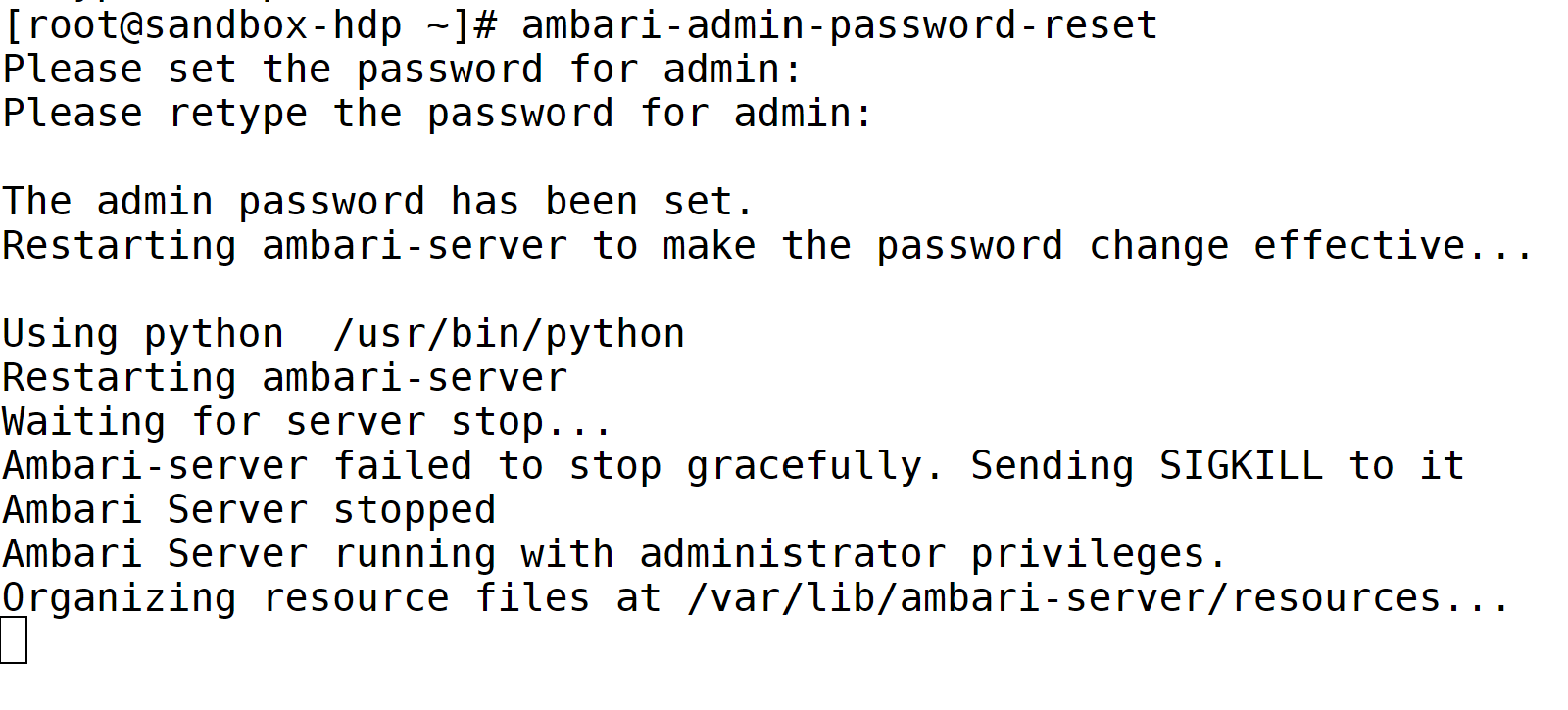
ambari-admin-password-reset

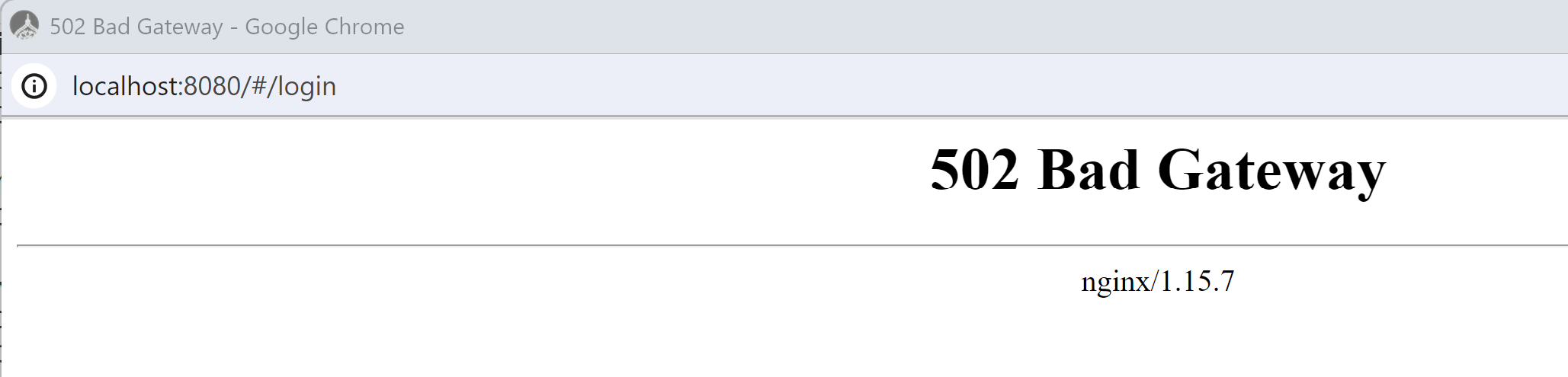
ambari-agent restart

http://<hostname/ipaddress>:8888

sdfmghdq.1



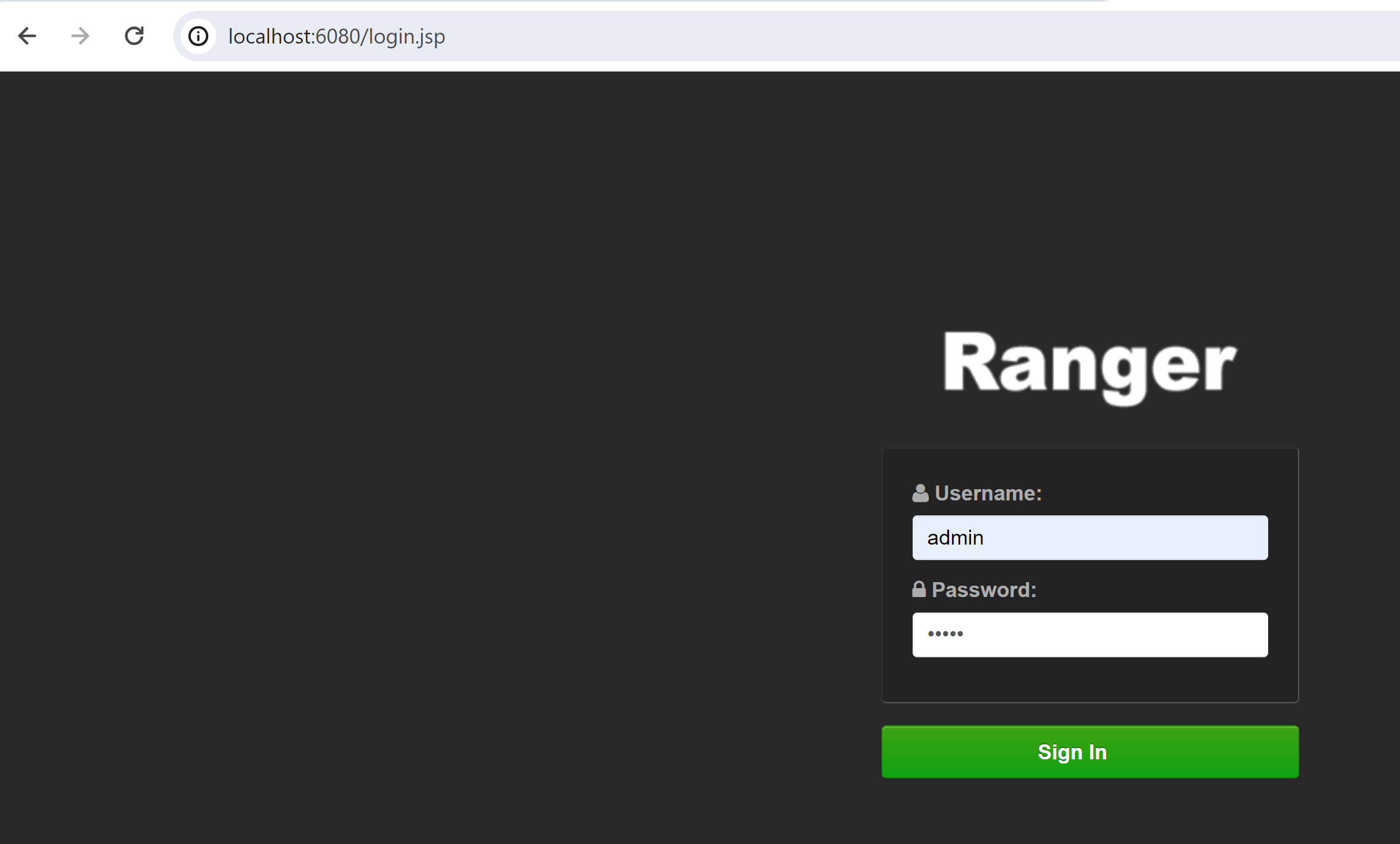


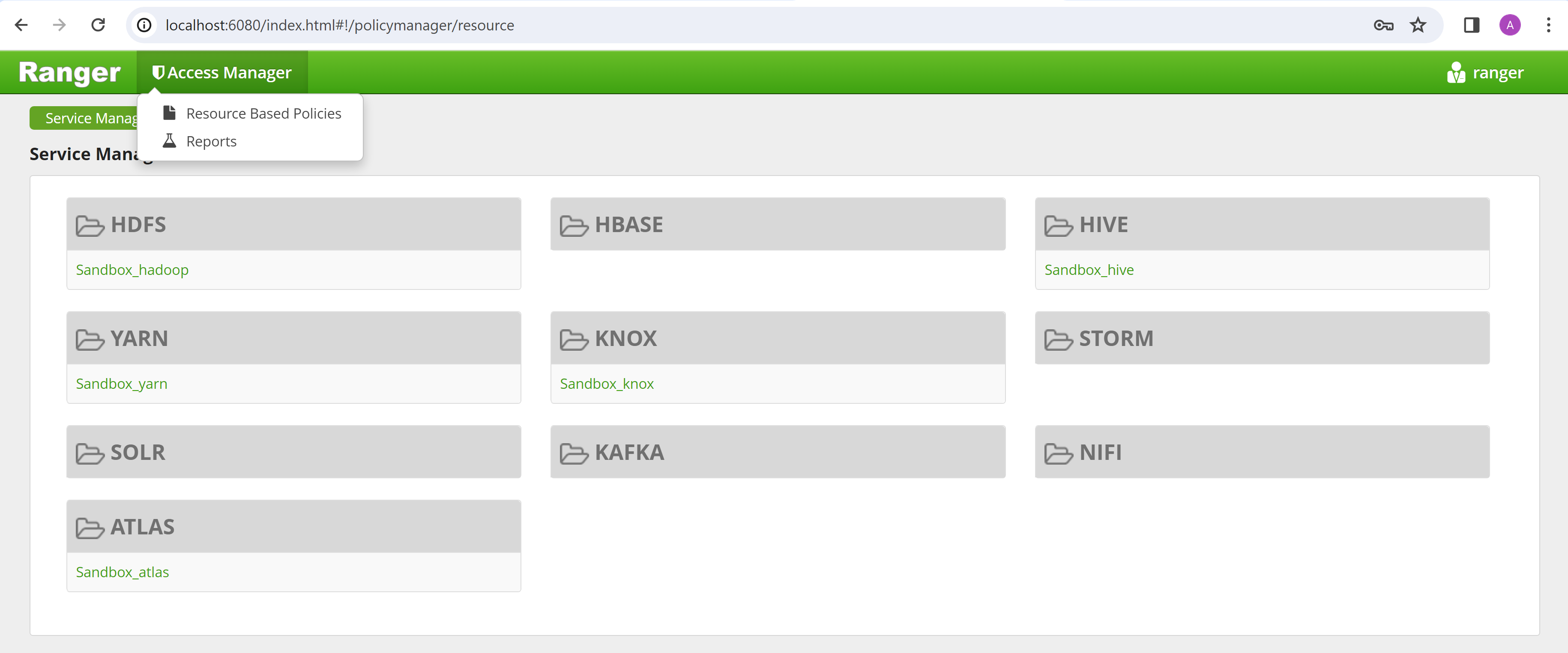


docker cp "C:\Users\Admin\Desktop\hello.txt" "sandbox-hdp:/"

docker cp "sandbox-hdp:/hello2.txt" "C:\Users\Admin\Desktop"

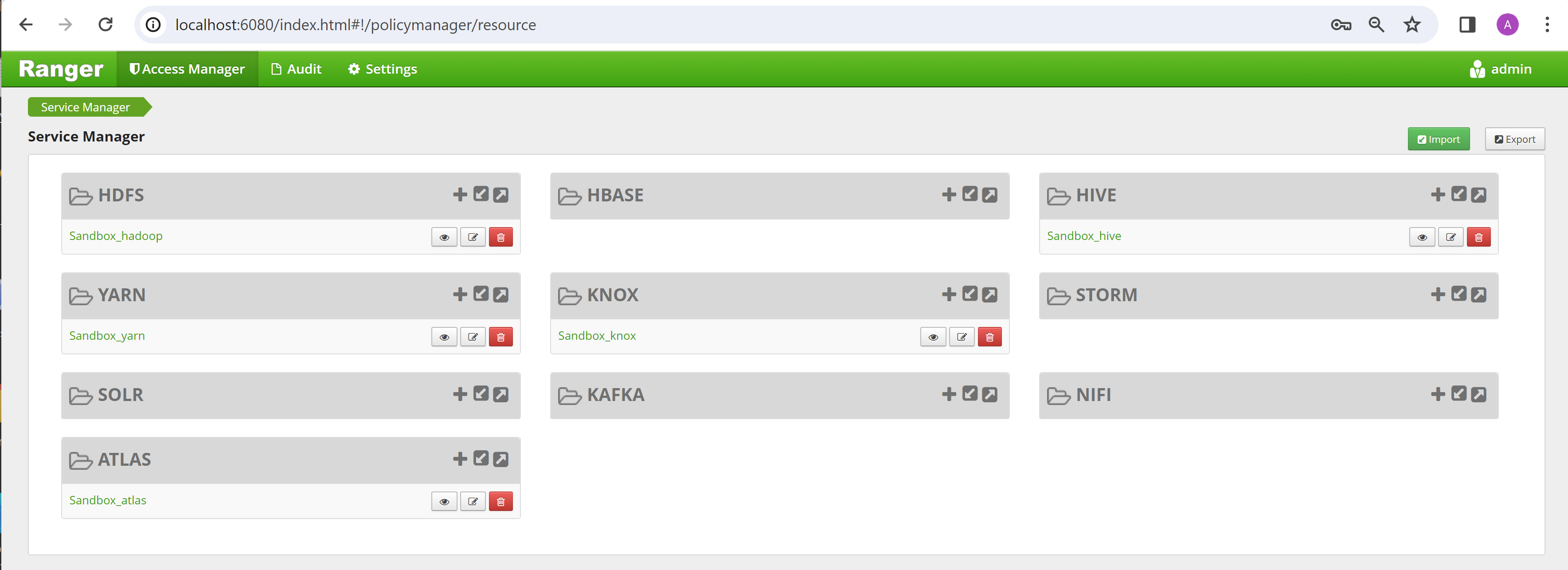
## Ranger





“ranger” NOT admin … ??!

Re-logged in as “admin” :



Built-in passwords:

admin/admin admin/hortonworks1

ranger/ranger ranger/hortonworks1

raj\_ops/raj\_ops raj\_ops/hortonworks1

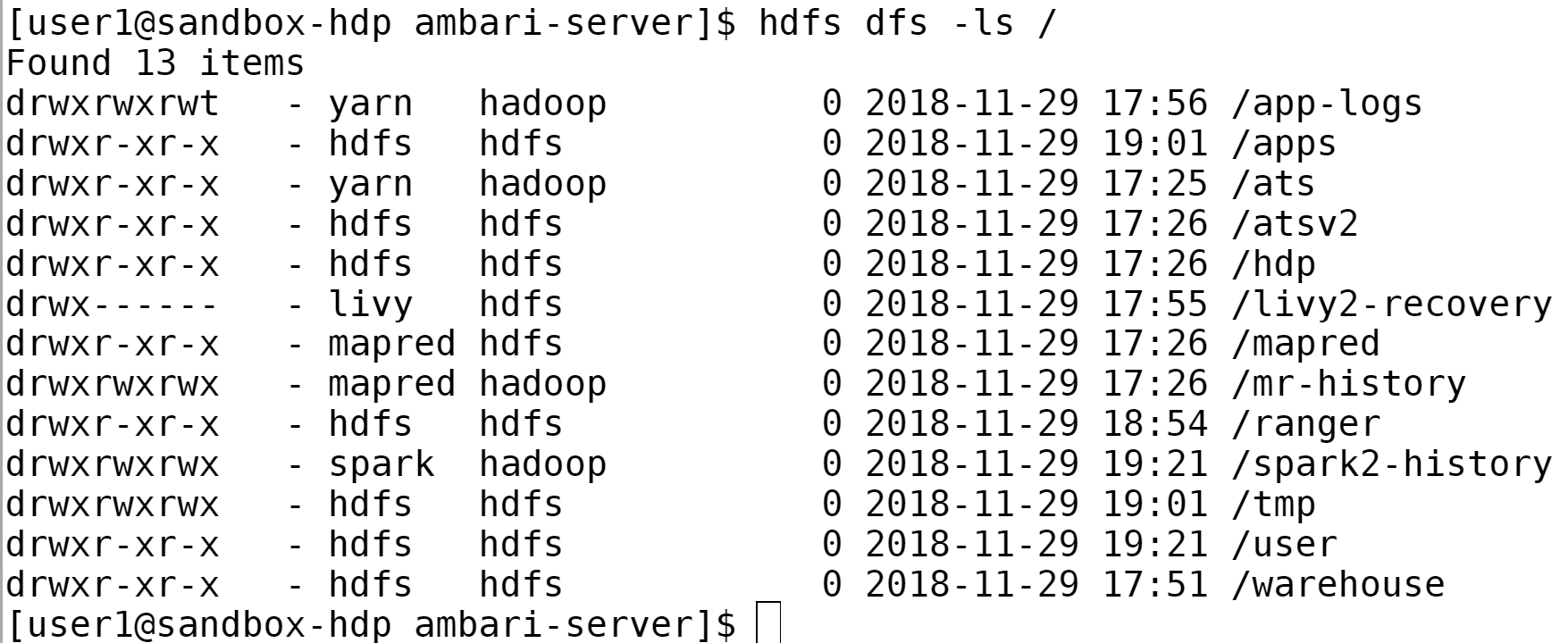
root/hadoop root/hortonworks1

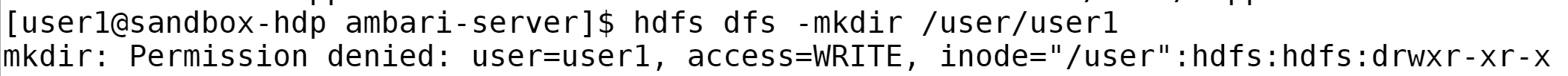
# adduser user1

# passwd user1

# su user1

$ hdfs dfs -ls /





# su hdfs

[hdfs]$ hdfs dfs -mkdir /user/user1

[hdfs]$ hdfs dfs -mkdir /user/user2

drwxr-xr-x - hdfs hdfs 0 2024-03-16 21:59 /user/user1

drwxr-xr-x - hdfs hdfs 0 2024-03-16 21:59 /user/user2



[hdfs]$ hdfs dfs -chown user1 /user/user1

[hdfs]$ hdfs dfs -chown user2 /user/user2

[hdfs]$ hdfs dfs -ls /user

drwxr-xr-x - user1 hdfs 0 2024-03-16 21:59 /user/user1

drwxr-xr-x - user2 hdfs 0 2024-03-16 21:59 /user/user2

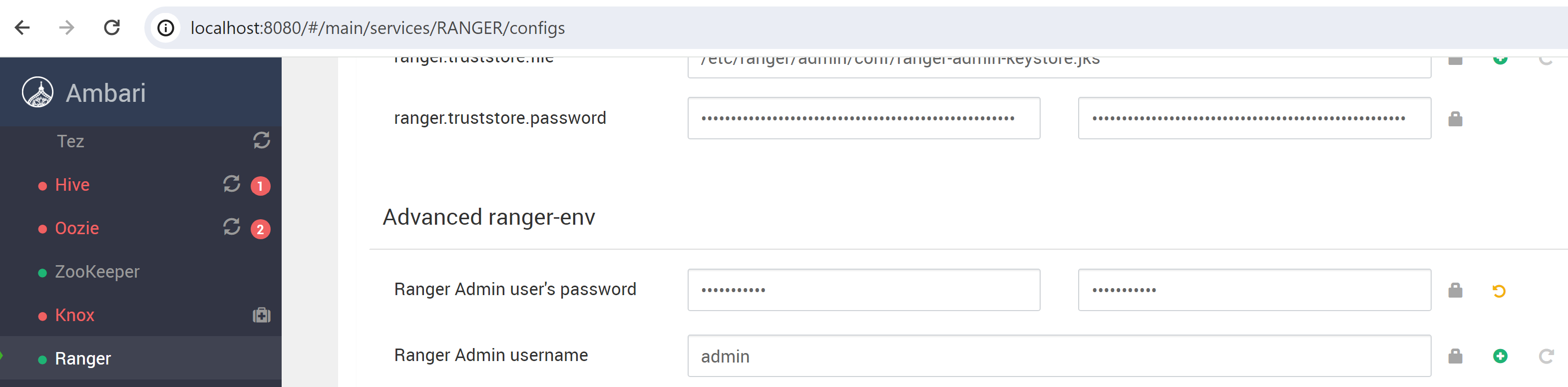


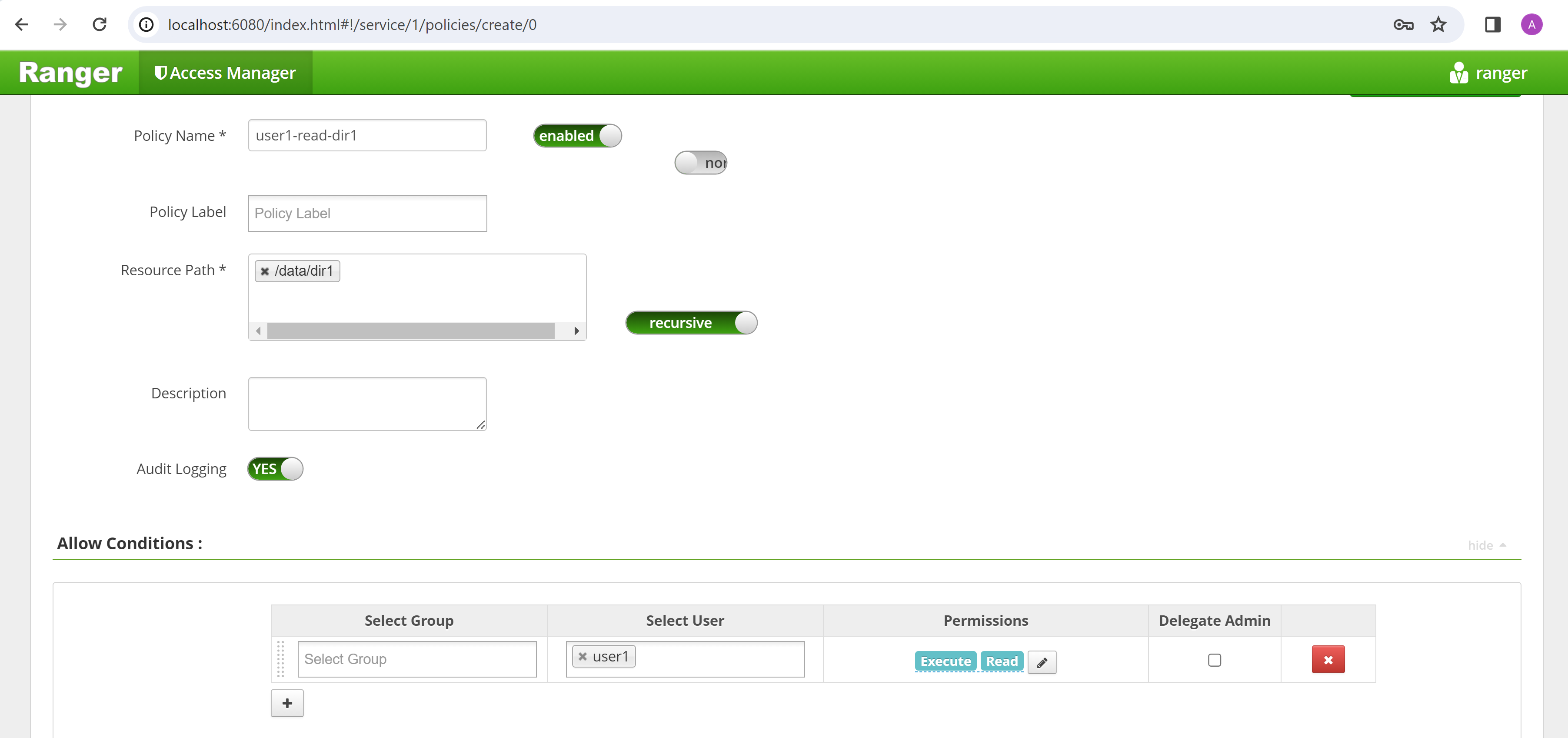
[hdfs]$ hdfs dfs -mkdir /data

[hdfs]$ hdfs dfs -mkdir /data/dir1

[hdfs]$ hdfs dfs -mkdir /data/dir2

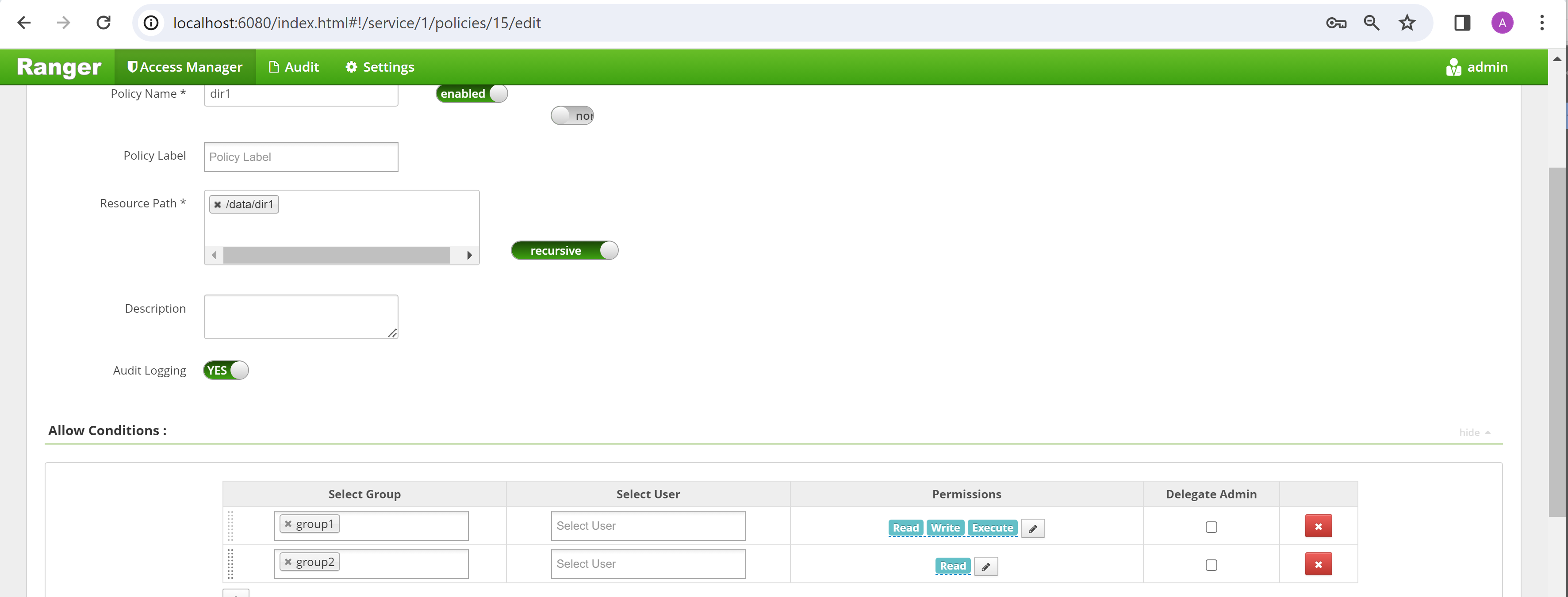
[hdfs]$ hdfs dfs -mkdir /data/dir3





Adding Ranger Policy on “/data/dir1”

* READ,WRITE,EXECUTE by Group1
* READ by Group2



# adduser user2

# passwd user2

# adduser user3

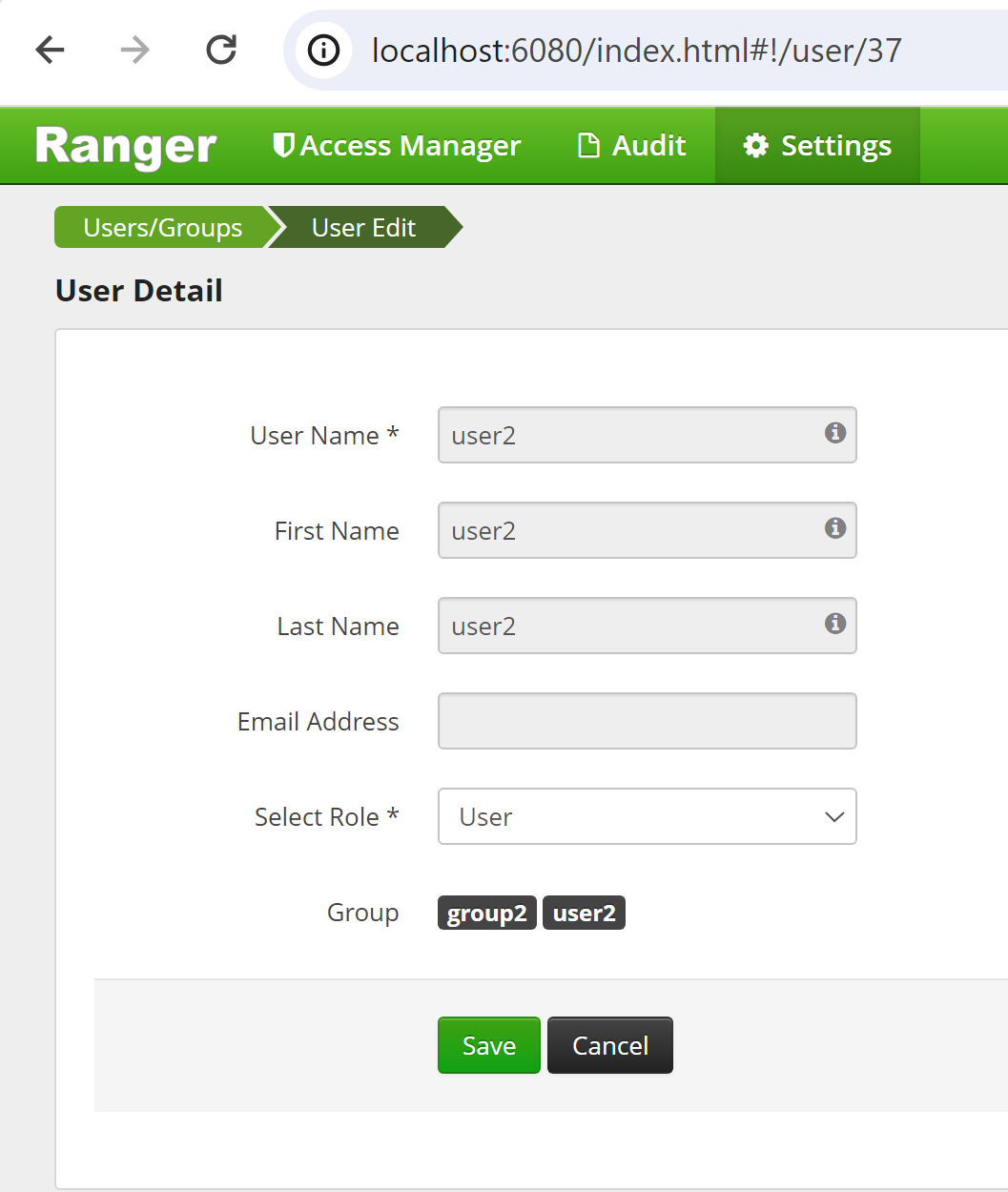
# passwd user3

# groupadd group1

# usermod user1 -G group1

# groupadd group2

# usermod user2 -G group2



[user1]$ hdfs dfs -ls /data/dir1

[user1]$ hdfs dfs -mkdir /data/dir1/subdir

[user1]$ hdfs dfs -ls /data/dir1

Found 1 items

drwxr-xr-x - user1 hdfs 0 2024-03-17 01:03 /data/dir1/subdir

[user2]$ hdfs dfs -ls /data/dir1

Found 1 items

drwxr-xr-x - user1 hdfs 0 2024-03-17 01:03 /data/dir1/subdir

[user2]$ hdfs dfs -mkdir /data/dir1/write-denied

mkdir: Permission denied: user=user2, access=WRITE, inode="/data/dir1":hdfs:hdfs:drwxr-xr-x