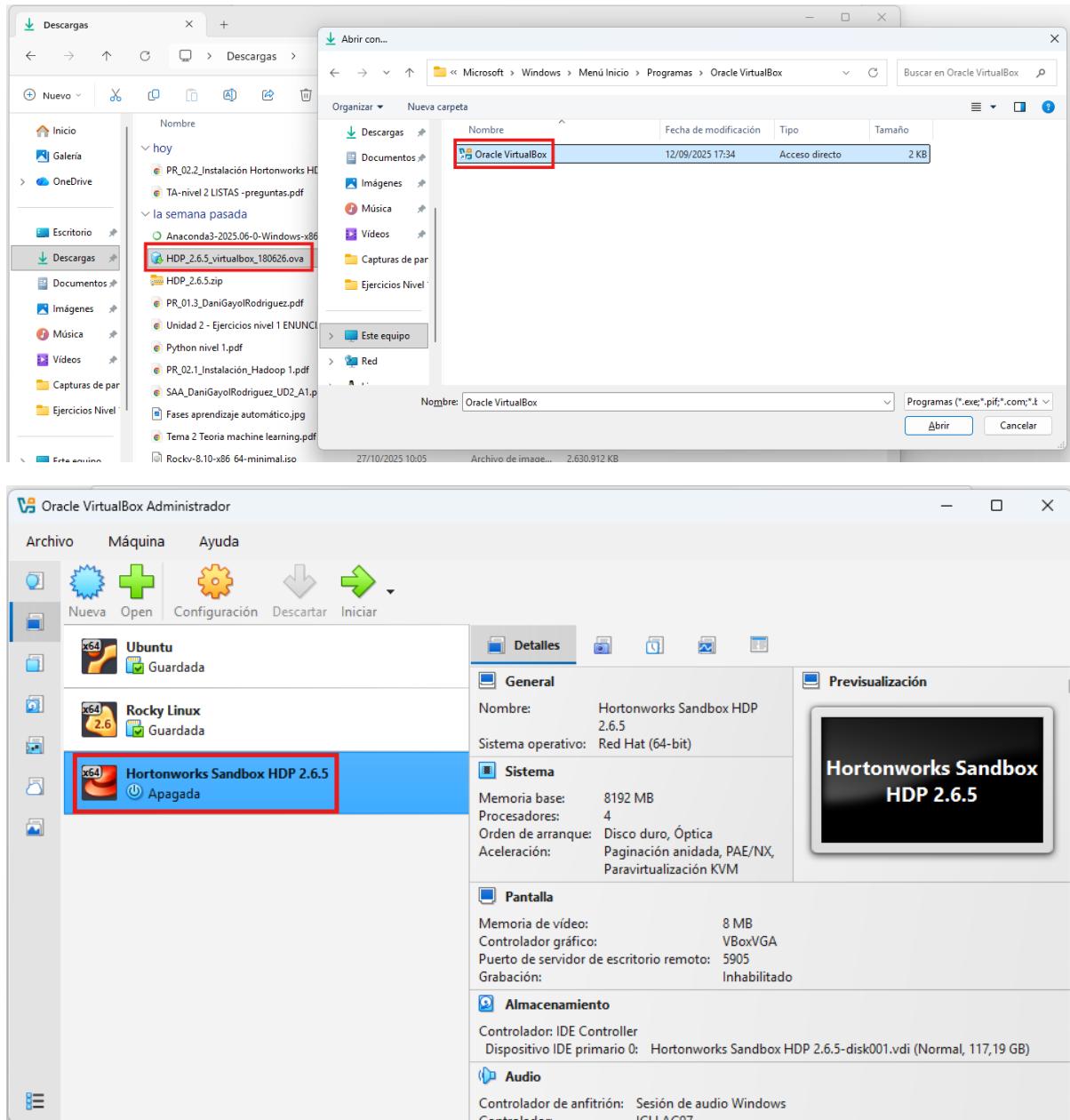
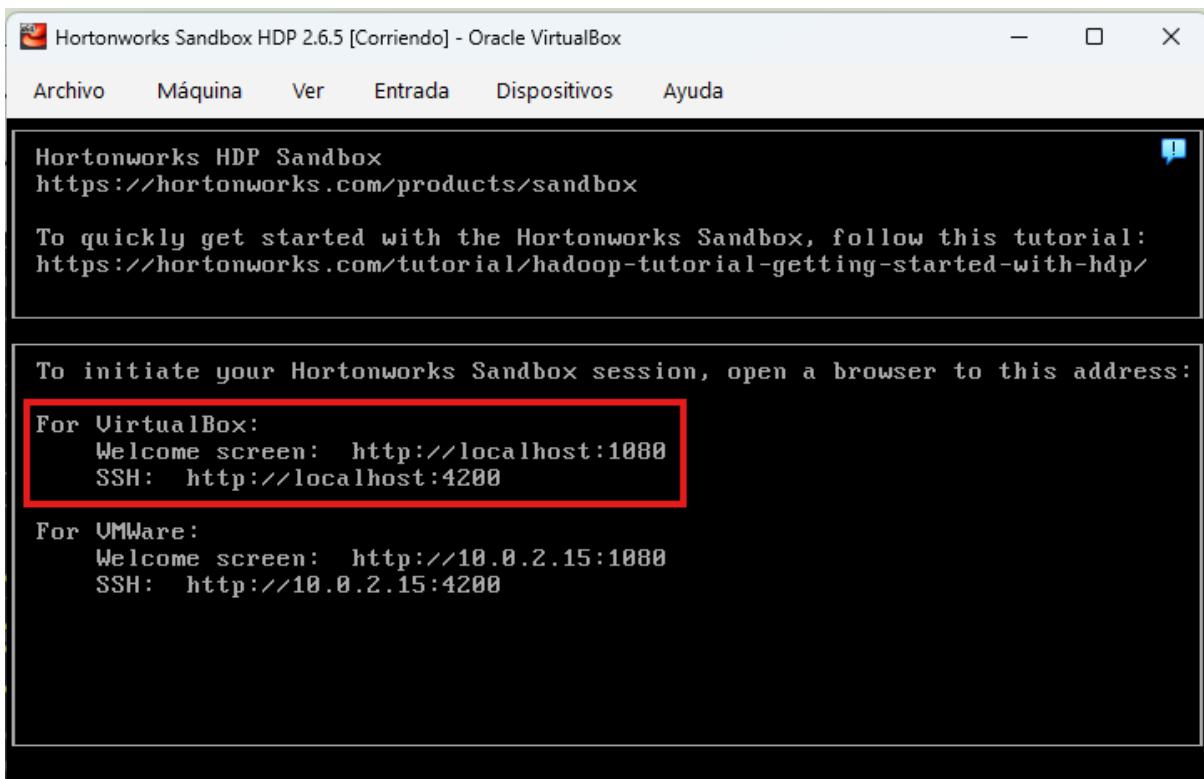


PR_02.2 Dani Gayol Rodríguez

PR_02.2 Dani Gayol Rodríguez.....	1
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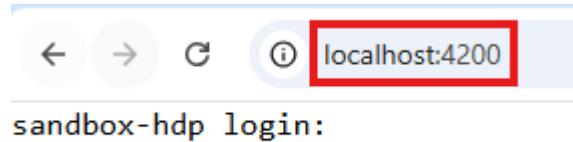
1.) Instala la máquina descargada en VirtualBox



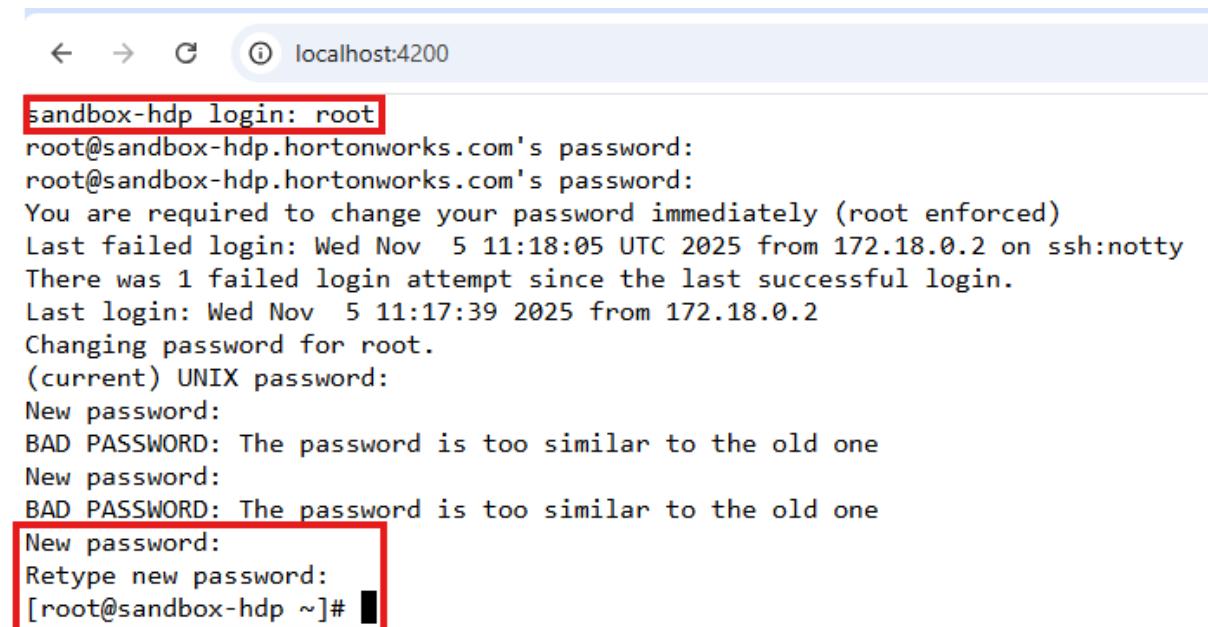


3.) Terminal Access

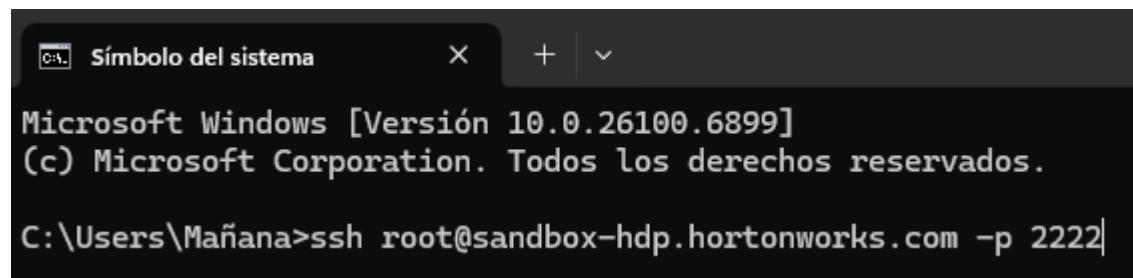
Ahora tenemos que abrir el navegador y escribir <http://localhost:4200>



Te pedirá que inicies sesión, puedes entrar como “root”, para ello el nombre es “root” y la contraseña “hadoop”, luego te va a pedir que la cambies la contraseña. Si no quieres iniciar sesión como root, también puedes iniciar sesión como un usuario normal pero entonces tendrás que usar el comando “sudo”



Ahora para entrar mediante ssh desde la terminal tenemos que abrir la consola de comandos y escribir lo siguiente



Si hacemos esto nos va a salir un error ya que no hicimos el apartado de ponerle un hostname a la IP del sandbox ya que para ello necesitamos los permisos de administrador de windows, pero podemos conectarnos de otra forma usando el “localhost” o la IP de la máquina

```
root@sandbox-hdp:~ X + v
Microsoft Windows [Versión 10.0.26100.6899]
(c) Microsoft Corporation. Todos los derechos reservados.

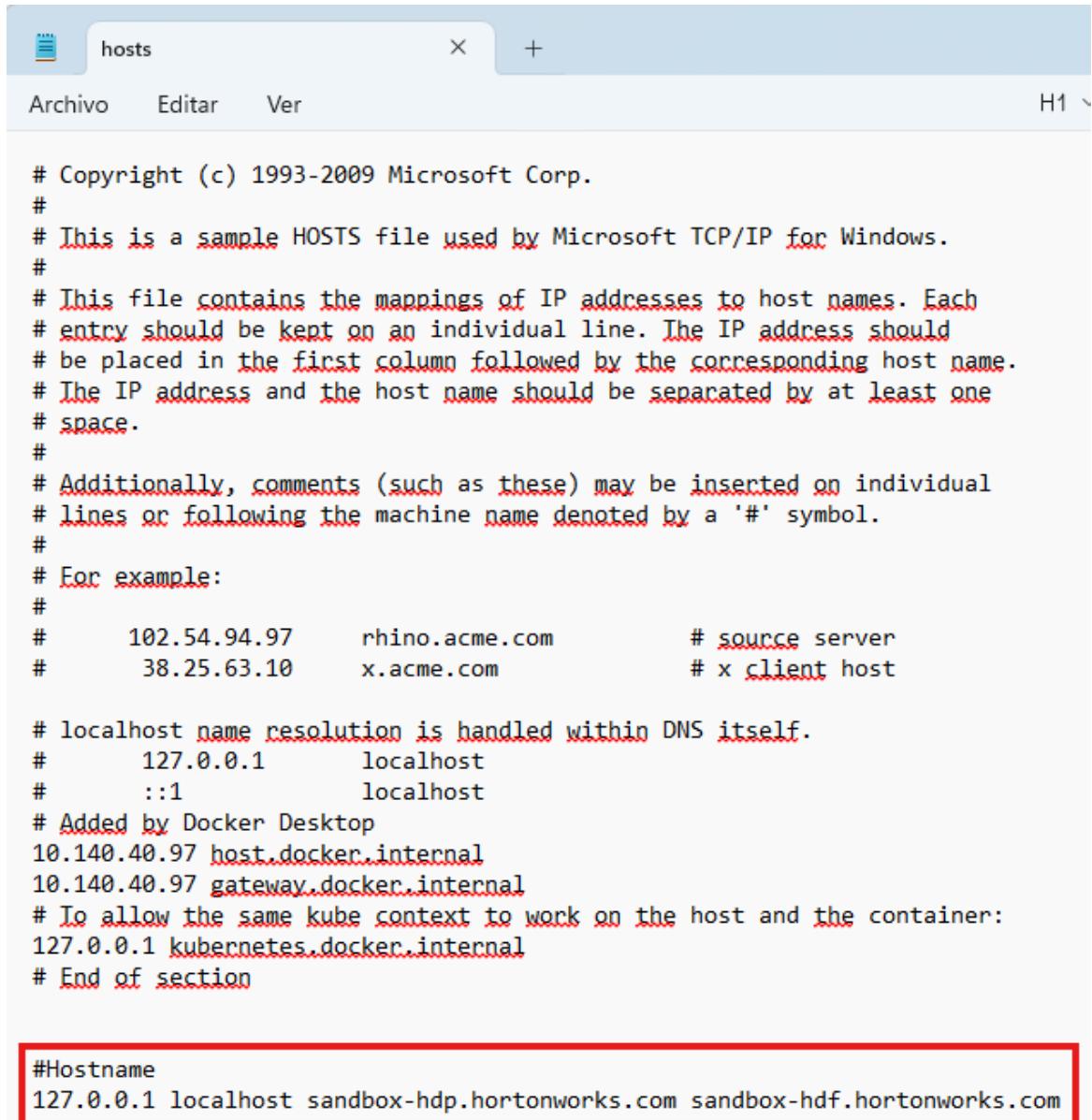
C:\Users\Mañana>ssh root@localhost -p 2222
root@localhost's password:
Last login: Thu Nov  6 07:58:45 2025 from 172.18.0.3
[root@sandbox-hdp ~]# |
```

Ahora podemos hacer un ping para probar que todo está funcionando correctamente

```
[root@sandbox-hdp ~]# ping 10.140.42.218
PING 10.140.42.218 (10.140.42.218) 56(84) bytes of data.
64 bytes from 10.140.42.218: icmp_seq=1 ttl=254 time=1.33 ms
64 bytes from 10.140.42.218: icmp_seq=2 ttl=254 time=1.40 ms
64 bytes from 10.140.42.218: icmp_seq=3 ttl=254 time=0.888 ms
64 bytes from 10.140.42.218: icmp_seq=4 ttl=254 time=0.531 ms
^C
--- 10.140.42.218 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3006ms
rtt min/avg/max/mdev = 0.531/1.038/1.405/0.355 ms
```

4.) Añade los hosts que se especifican para poder acceder a los servicios sin tener que teclear direcciones IP

Para modificarlo necesitamos abrir el bloc de notas como administrador y luego buscar el archivo “hosts” en la siguiente ruta para añadir una línea de comando
“C:\Windows\System32\drivers\etc\hosts”



```
# Copyright (c) 1993-2009 Microsoft Corp.
#
# This is a sample HOSTS file used by Microsoft TCP/IP for Windows.
#
# This file contains the mappings of IP addresses to host names. Each
# entry should be kept on an individual line. The IP address should
# be placed in the first column followed by the corresponding host name.
# The IP address and the host name should be separated by at least one
# space.
#
# 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
# Added by Docker Desktop
10.140.40.97 host.docker.internal
10.140.40.97 gateway.docker.internal
# To allow the same kube context to work on the host and the container:
127.0.0.1 kubernetes.docker.internal
# End of section

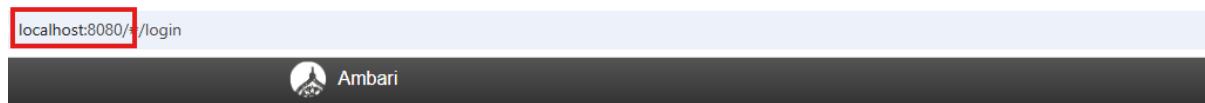
#Hostname
127.0.0.1 localhost sandbox-hdp.hortonworks.com sandbox-hdf.hortonworks.com
```

Ahora después de hacer esto, si nos deja entrar desde la consola de comandos utilizando lo siguiente

```
root@sandbox-hdp:~  
Mañana@A26P52 MTNGW64 ~ (master)  
$ ssh root@sandbox-hdp.hortonworks.com -p 2222  
root@sandbox-nap.hortonworks.com's password:  
Last login: Thu Nov  6 09:24:57 2025 from 172.18.0.3  
[root@sandbox-hdp ~]# pwd  
/root  
[root@sandbox-hdp ~]# whoami  
root  
[root@sandbox-hdp ~]# ping 10.140.42.218  
PING 10.140.42.218 (10.140.42.218) 56(84) bytes of data.  
64 bytes from 10.140.42.218: icmp_seq=1 ttl=254 time=0.533 ms  
64 bytes from 10.140.42.218: icmp_seq=2 ttl=254 time=1.33 ms  
64 bytes from 10.140.42.218: icmp_seq=3 ttl=254 time=0.635 ms  
64 bytes from 10.140.42.218: icmp_seq=4 ttl=254 time=0.976 ms  
^C  
--- 10.140.42.218 ping statistics ---  
4 packets transmitted, 4 received, 0% packet loss, time 3014ms  
rtt min/avg/max/mdev = 0.533/0.870/1.338/0.317 ms
```

5.) Acceder al panel de administración de Ambari

El dashboard de Ambari está en el puerto “8080”



The screenshot shows a browser window with the Ambari login interface. The URL 'localhost:8080/#/login' is highlighted with a red box. The Ambari logo is at the top. The main area is titled 'Sign in' with fields for 'Username' and 'Password', and a 'Sign in' button.

Label	Value
Username	
Password	
Sign in	Sign in

Nosotros vamos a usar dos credenciales, la de “maria_dev” y la de “admin”



The screenshot shows the Ambari sign-in page. The 'Username' field contains 'maria_dev' and the 'Password' field contains '*****', both of which are highlighted with red boxes. Below the fields is a green 'Sign in' button.

Label	Value
Username	maria_dev
Password	*****
Sign in	Sign in

Ambari Sandbox 0 ops 0 alerts

Dashboard Services Hosts Alerts Admin maria_dev ▾

About Sign out

Metrics Heatmaps Config History

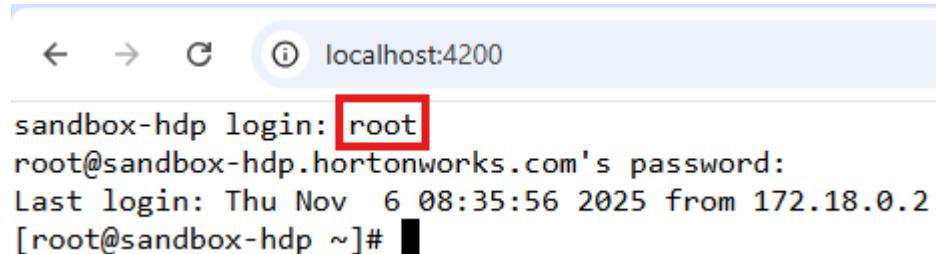
Metric Actions Last 1 hour

HDFS Disk Usage  26%	DataNodes Live 1/1	HDFS Links NameNode Secondary NameNode 1 DataNodes More...	Memory Usage No Data Available	Network Usage No Data Available
CPU Usage No Data Available	Cluster Load No Data Available	NameNode Heap  20%	NameNode RPC 2.20 ms	NameNode CPU WIO n/a
NameNode Uptime 48.1 min	HBase Master Heap n/a	HBase Links No Active Master 1 RegionServers n/a More...	HBase Ave Load n/a	HBase Master Uptime n/a
ResourceManager Heap  19%	ResourceManager Uptime 46.3 min	YARN Memory  0%	NodeManagers Live 1/1	YARN Links ResourceManager 1 NodeManagers More...

Actions ▾

6.) Habilitar la contraseña de Admin

Para empezar, tenemos que abrir la shell de comandos e iniciar sesión como root



A screenshot of a terminal window titled "localhost:4200". The command "sandbox-hdp login: root" is entered, with "root" highlighted by a red box. The password prompt "root@sandbox-hdp.hortonworks.com's password:" follows. The response "Last login: Thu Nov 6 08:35:56 2025 from 172.18.0.2" is shown, along with the prompt "[root@sandbox-hdp ~]#".

```
sandbox-hdp login: root
root@sandbox-hdp.hortonworks.com's password:
Last login: Thu Nov 6 08:35:56 2025 from 172.18.0.2
[root@sandbox-hdp ~]#
```

Luego tenemos que poner el siguiente comando “ambari-admin-password-reset”

```
[root@sandbox-hdp ~]# ambari-admin-password-reset
Please set the password for admin:
Please retype the password for admin:

The admin password has been set.
Restarting ambari-server to make the password change effective...

Using python /usr/bin/python
Restarting ambari-server
Waiting for server stop...
Ambari Server stopped
Ambari Server running with administrator privileges.
Organizing resource files at /var/lib/ambari-server/resources...
Ambari database consistency check started...
Server PID at: /var/run/ambari-server/ambari-server.pid
Server out at: /var/log/ambari-server/ambari-server.out
Server log at: /var/log/ambari-server/ambari-server.log
Waiting for server start.....
Server started listening on 8080

DB configs consistency_check: no errors and warnings were found.
```

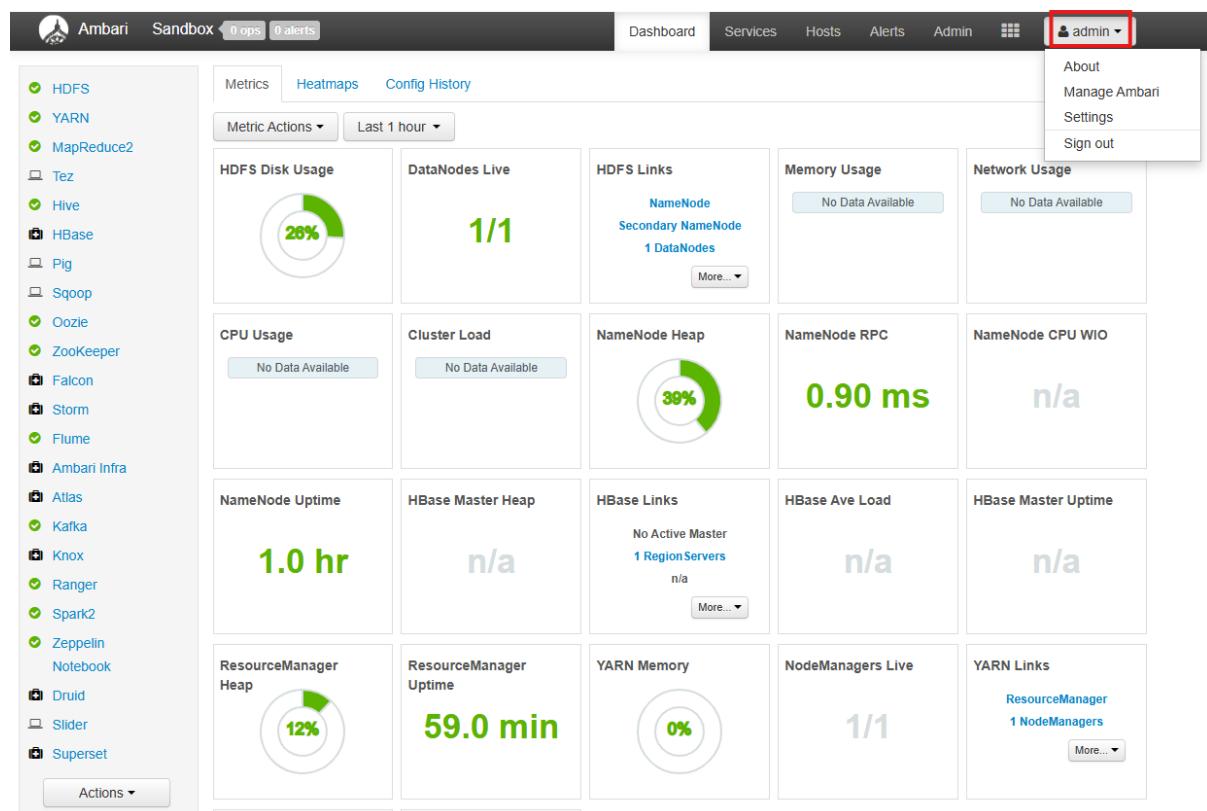
Y ahora vamos a comprobar que podemos iniciar sesión como “admin” en Ambari

Sign in

Username

Password

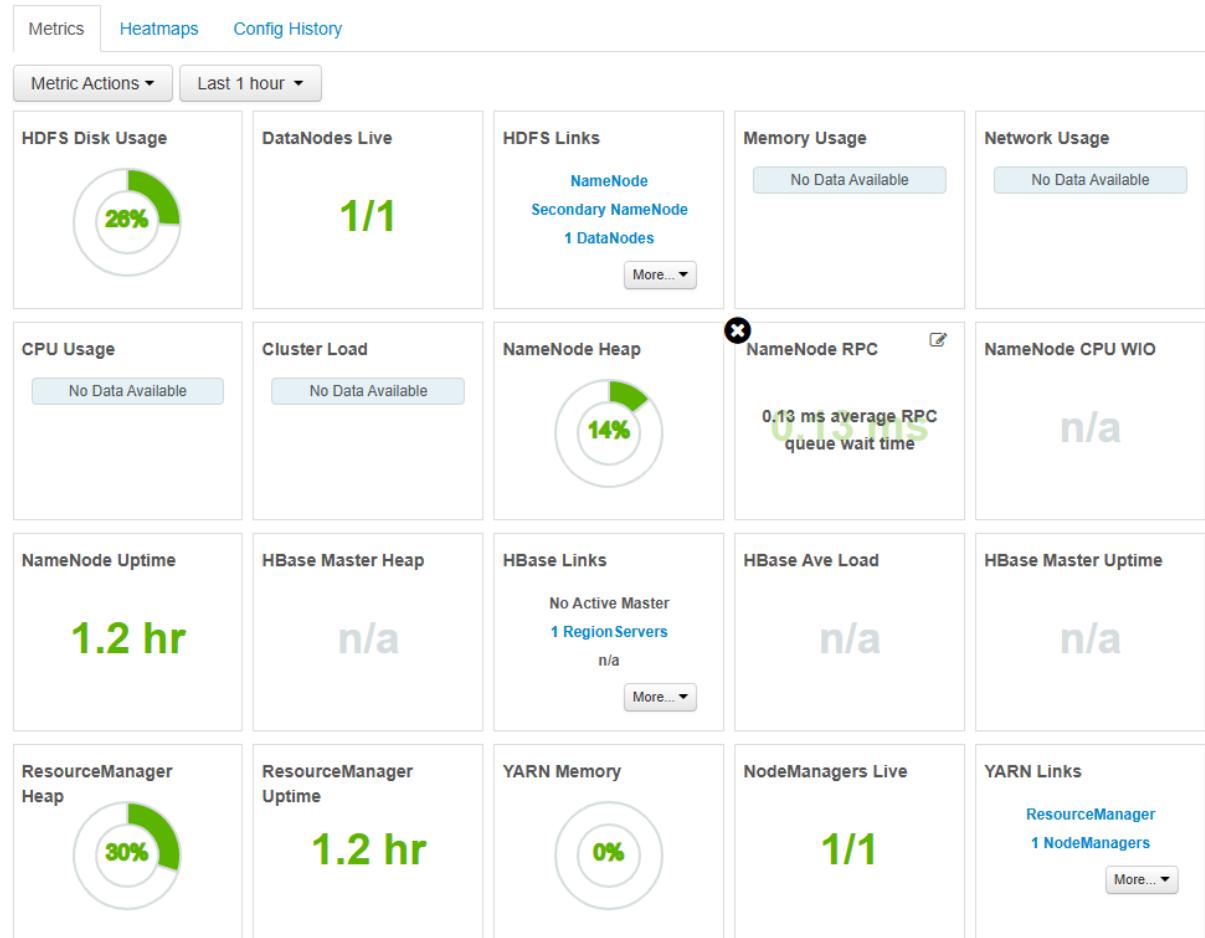
Sign in



7.) Explorar el panel de control de Ambari



Dashboard: muestra el estado general del clúster, uso de la CPU, memoria y disco, estado de los servicios, etc.



Servicios: muestra la lista de todos los servicios instalados, cada servicio se puede expandir para ver su estado, logs, métricas y opciones de gestión

Summary Heatmaps Configs Quick Links ▾ Service Actions ▾

Summary

No alerts

NameNode	Started	No alerts	Disk Remaining	78.3 GB / 106.0 GB (73.92%)
SNameNode	Started	No alerts	Blocks (total)	1082
DataNodes	1/1 Started		Block Errors	0 corrupt replica / 0 missing / 0 under replicated
DataNodes Status	1 live / 0 dead / 0 decommissioning		Total Files + Directories	1314
JournalNodes	0/0 JournalNodes Live		Upgrade Status	No pending upgrade
NFSGateways	0/0 Started		Safe Mode Status	Not in safe mode
NameNode Uptime	1.24 hours			
NameNode Heap	40.6 MB / 240.0 MB (16.9% used)			
Disk Usage (DFS Used)	2.1 GB / 106.0 GB (1.95%)			
Disk Usage (Non DFS Used)	25.6 GB / 106.0 GB (24.13%)			

Metrics

Last 1 hour ▾

NameNode GC count	NameNode GC time	NN Connection Load	NameNode Heap	NameNode Host Load
No Data Available	No Data Available	No Data Available	No Data Available	No Data Available
NameNode RPC	Failed disk volumes	Blocks With Corrupted Replicas	Under Replicated Blocks	HDFS Space Utilization
No Data Available	n/a	0	0	n/a

Hosts: muestra la lista de máquinas que forman el clúster y también muestra los recursos de cada host

Actions ▾

Filter by host and component attributes or search by keyword ...

<input type="checkbox"/>	Name	IP Address	Rack	Cores	RAM	Disk Usage	Load Avg	Versions	Components
<input checked="" type="checkbox"/>	sandbox-hdp.hortonworks....	172.18.0.2	/default-rack	4 (4)	7.79GB			HDP-2.6.5.0	56 Components

Show: 10 1 - 1 of 1

Alerts: muestra las alertas activas y permite gestionar o desactivar alertas.

Actions ▾ Groups: All (85) ▾

Alert Definition Name	Status	Service	Last Status Changed	State
Any	All	All	Any	All
⌚ Falcon Server Web UI	⌚ CRIT	Falcon	7 years ago	⌚ Enabled
⌚ Falcon Server Process	⌚ CRIT	Falcon	7 years ago	⌚ Enabled
⌚ Metadata Server Web UI	⌚ CRIT	Atlas	7 years ago	⌚ Enabled
⌚ HBase Master Process	⌚ CRIT	HBase	7 years ago	⌚ Enabled
⌚ HBase RegionServer Process	⌚ CRIT	HBase	7 years ago	⌚ Enabled
⌚ Knox Gateway Process	⌚ CRIT	Knox	7 years ago	⌚ Enabled
⌚ Infra Solr Web UI	⌚ CRIT	Ambari Infra	7 years ago	⌚ Enabled
⌚ Storm Web UI	⌚ CRIT	Storm	7 years ago	⌚ Enabled
⌚ Supervisor Process	⌚ CRIT	Storm	7 years ago	⌚ Enabled
⌚ Nimbus Process	⌚ CRIT	Storm	7 years ago	⌚ Enabled

85 of 85 definitions showing - clear filters Show: 10 1 - 10 of 85 ← →

Admin: muestra la configuración del clúster y opciones para añadir servicios o hosts.

Stack Versions Upgrade History

Service	Version	Status	Description
HDFS	2.7.3	Installed	Apache Hadoop Distributed File System
YARN	2.7.3	Installed	Apache Hadoop NextGen MapReduce (YARN)
MapReduce2	2.7.3	Installed	Apache Hadoop NextGen MapReduce (YARN)
Tez	0.7.0	Installed	Tez is the next generation Hadoop Query Processing framework written on top of YARN.
Hive	1.2.1000	Installed	Data warehouse system for ad-hoc queries & analysis of large datasets and table & storage management service
HBase	1.1.2	Installed	A Non-relational distributed database, plus Phoenix, a high performance SQL layer for low latency applications.
Pig	0.16.0	Installed	Scripting platform for analyzing large datasets
Sqoop	1.4.6	Installed	Tool for transferring bulk data between Apache Hadoop and structured data stores such as relational databases
Oozie	4.2.0	Installed	System for workflow coordination and execution of Apache Hadoop jobs. This also includes the installation of the optional Oozie Web Console which relies on and will install the ExtJS Library.
ZooKeeper	3.4.6	Installed	Centralized service which provides highly reliable distributed coordination
Falcon	0.10.0	Installed	Data management and processing platform
Storm	1.1.0	Installed	Apache Hadoop Stream processing framework
Flume	1.5.2	Installed	A distributed service for collecting, aggregating, and moving large amounts of streaming data into HDFS