

## HDP Operations: Apache HBase Advanced Management

### **Setup Guide**



HDP Operations: Apache HBase Advanced Management

Revision 1.1



# **System Requirements**

The following is the recommended minimal system requirements:

- Reasonably powerful **x86/amd64 hardware.** Intel Core2 Duo or AMD Athlon Dual-Core or equivalent or above.
- RAM: At least **2GB**
- Free disk space: 2GB
- At least 800 x 600 display
- Network connection (either a LAN, or Internet link: broadband, cable, DSL, etc.)
- The following ports need to be open for OUTBOUND access from the student machines to Amazon Web Services:
  - o **80**
  - o 22 (optional)
- You must install **NoMachine Enterprise Client** on your computer to connect to AWS-based lab environment: <u>https://www.nomachine.com/download-enterprise</u>

**IMPORTANT:** If you have any issues or questions, please send an email to <u>training</u>-<u>support@hortonworks.com</u>.

### **Connect to AWS VM using NoMachine client**

Objective:	To connect and test AWS lab VM using NoMachine Remote Desktop client.		
Before You Begin:	<ul> <li>You need to execute these steps during the class.</li> <li>Make sure your hardware meets the requirements listed above.</li> <li>NoMachine client is already available on the computer.</li> <li>The instructor has already provided an IP address for the AWS VM.</li> </ul>		

Step 1: Connect to AWS VM using NoMachine client

**1.1.** Start NoMachine client and click on 'Continue':



#### 1.2. Click on 'New':



#### 1.3. Make sure selected 'Protocol' is 'NX' and click on 'Continue':



**1.4.** Enter the IP Address provided by your instructor in 'Host' text-field and make sure value for Port is '4000'. Click on 'Continue':



**1.5.** Select 'Password' option in Authentication tab and click 'Continue'.

New connection	n							MACHINE
Protocol	$\rangle$	Host	>	Authentication		Proxy	$\rangle$	Save as
Choose which authe	ntication	method you w	ant to i	JSE.				
20	O Pas Use	s <b>word</b> e password auth	enticati	ion.				
	Priv Use	<b>vate key</b> e key-based aut	hentica	tion with a key you	provide.			
							Back	Continue

**1.6.** Now select all default settings and click on 'Continue':



**1.7.** Click on 'Done', once you see below screen:



**1.8.** Select the newly created connection and Click on 'Connect':



**1.9.** Enter Username (root) and Password (will be provided by the instructor). Click on 'Save this password in the connection file'. Click on 'OK':

Connection to 54.205.	99.195			ACHINE
Please type your username and	l password to lo	gin.		
	Username	root		
	Password			
	Save th	is password in the connection file		
			Back	ОК

**1.10.** If you come across the below screen, please choose 'Physical dislay, User root, Ubuntu x server on: 0' and click on 'Connect':

Connection to 54.20		NOMACHINE		
	<b>Q</b> Find a user or a desktop	My desktops	New desktop	
Physical display, User root, Ubuntu X server on :1 1 0 connected	Physical display, User root, Ubuntu X server on :0 2 0 connected			
Logged as: root 🕕 Lo	ogout	Back	Connect	

**1.11.** From this point, keep clicking on 'OK' to retain default settings until you see a login screen:

Connection to 54.92.195.33	NOMACHINE
nult properties detected. Using built-in database.	
Show the menu by clicking on the edge of the window	
Or do the same by pres	sing CTRL+ALT+0
Clouring PostgreSQL	( )
ut@node1 pgsql]# a	
ng python /usr/bth <sub>rest</sub> anding.	
Change the screen settings using the icons below	
ver out at: /var/log/ambari-serv 👽 🖬 🖬 🖬 🖬 og	
ari Server 'start' completed such	
▶ StorLAII	
Don't show this message again	ОК
	٥







Connection to 54.92.195.33		CHINE
Display resolution		
The remote machine in resolution or change	has a different resolution than the client. You can preserve the twile connected.	remote
Change the server	resolution to match the client when I connect	
arting PostgreSQL ri Server 'setup' completed suc t@node1 pgsql]# ambari-server ~		
a python /usr/bin ting ambari-server ri Server running er PID at: /var/ru	It to window Resize remote Fullscreen Fullscreen and Konize Change settings	
er odt at: /var/log/ambari-serv er log at: /var/log/ambari-serv ri Server 'start' completed sud t@node1 pgsql]#	Click to resize the remote screen when the local window	is resized
Start All	turn scaling on and adapt the remote screen to the window	
Don't show this message again		ОК
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Now, you will be connected to AWS VM and you should see Lab environment Ubuntu Dekstop:



- **Step 2:** Check whether you can login to 5 different CentOS machines named node1, node2, node3, node4 & node5.
  - **2.1.** Click on Terminal icon on left-hand-side taskbar (3<sup>rd</sup> icon from top):



**2.2.** Connect to the first machine using following command:

root@ubuntu:~# ssh node1

```
root@ubuntu:~# ssh node1
The authenticity of host 'node1 (172.17.0.2)' can't be established.
RSA key fingerprint is fe:e9:d8:ff:ec:dd:23:ca:81:17:08:c1:90:ee:b0:fe.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'node1,172.17.0.2' (RSA) to the list of known hosts.
[root@node1 ~]#
```

**2.3.** Type 'exit' to close the connection to node1 and repeat above step for node2, node3 and node4.

**RESULT**: You should have tested the connection to the classroom VM running on AWS.