



Hortonworks
UNIVERSITY

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:
 - 80
 - 22 (optional)
- You must install **NoMachine Enterprise Client** on your computer to connect to AWS-based lab environment: <https://www.nomachine.com/download-enterprise>

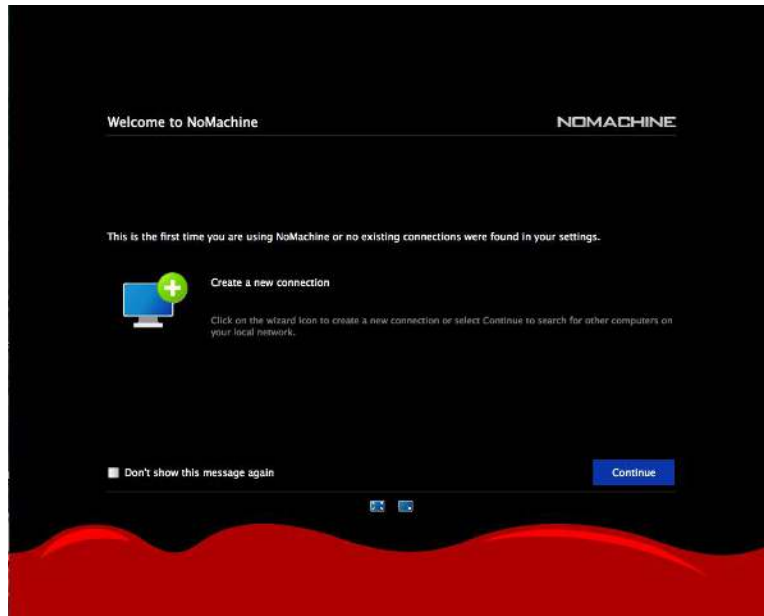
IMPORTANT: If you have any issues or questions, please send an email to training-support@hortonworks.com.

Connect to AWS VM using NoMachine client

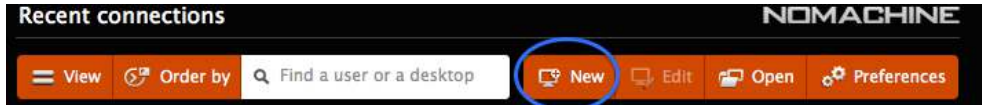
Objective:	To connect and test AWS lab VM using NoMachine Remote Desktop client.
Before You Begin:	<ul style="list-style-type: none">• You need to execute these steps during the class.• Make sure your hardware meets the requirements listed above.• NoMachine client is already available on the computer.• The instructor has already provided an IP address for the AWS VM.

Step 1: Connect to AWS VM using NoMachine client

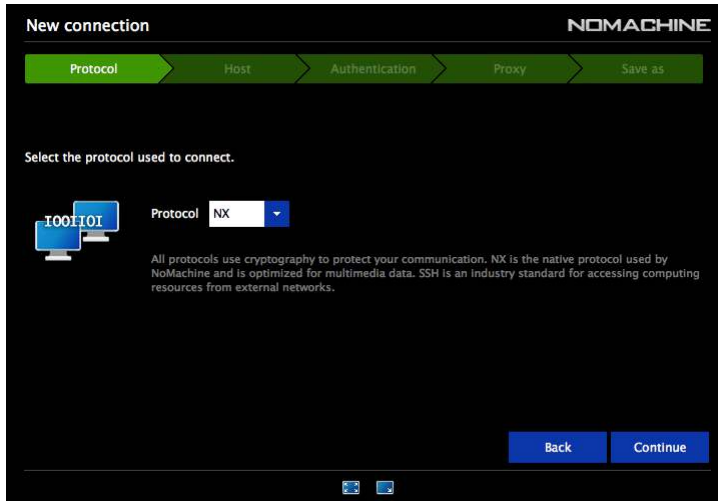
1.1. Start NoMachine client and click on 'Continue':



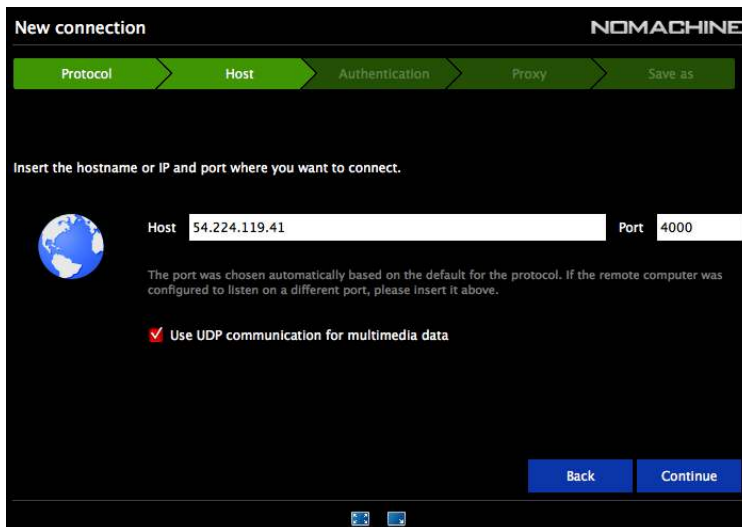
1.2. Click on 'New':



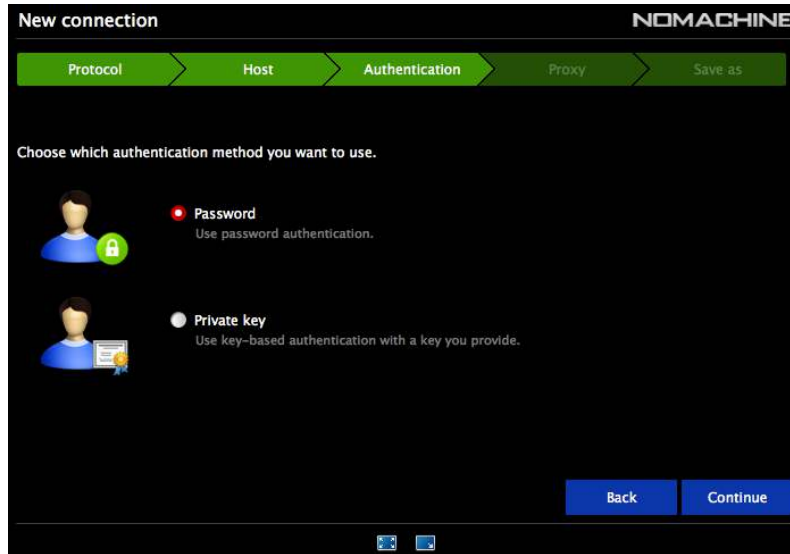
1.3. Make sure selected 'Protocol' is 'NX' and click on 'Continue':



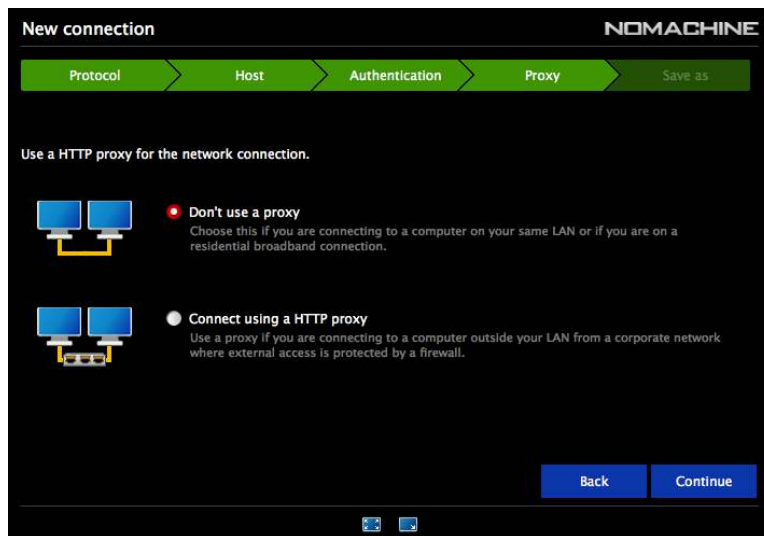
1.4. Enter the IP Address provided by your instructor in 'Host' text-field and make sure value for Port is '4000'. Click on 'Continue':



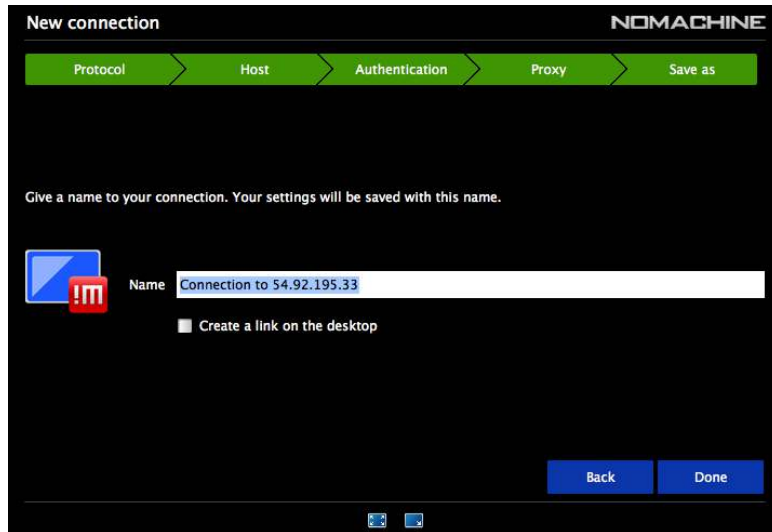
1.5. Select 'Password' option in Authentication tab and click 'Continue'.



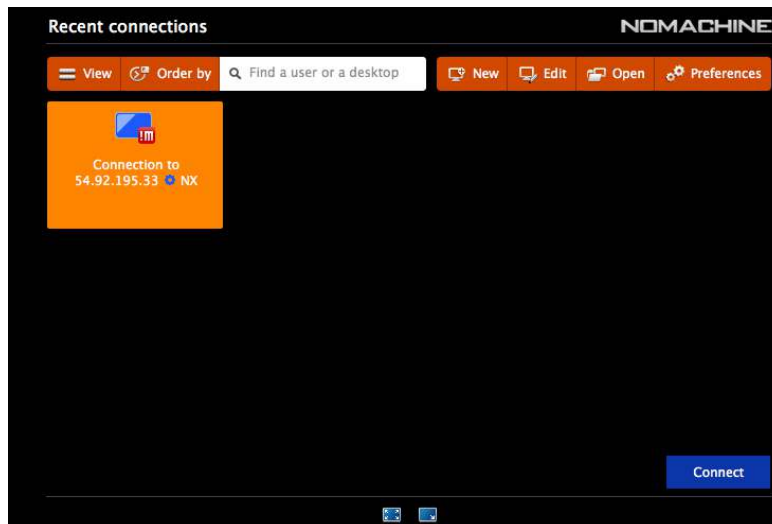
1.6. Now select all default settings and click on 'Continue':



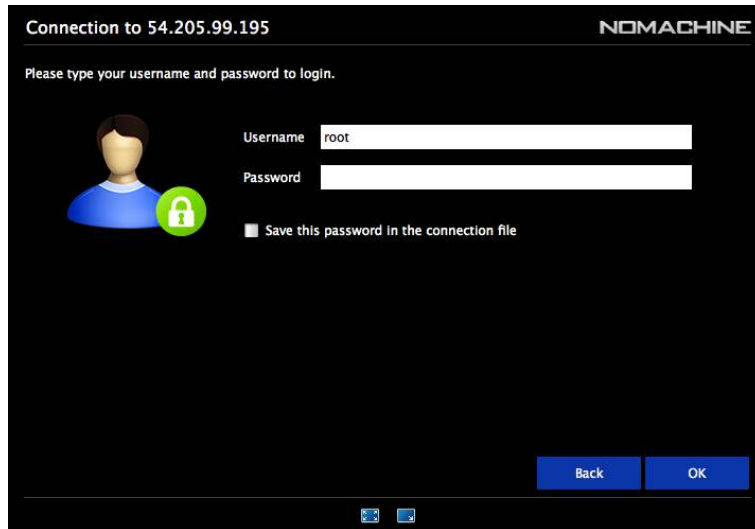
1.7. Click on 'Done', once you see below screen:



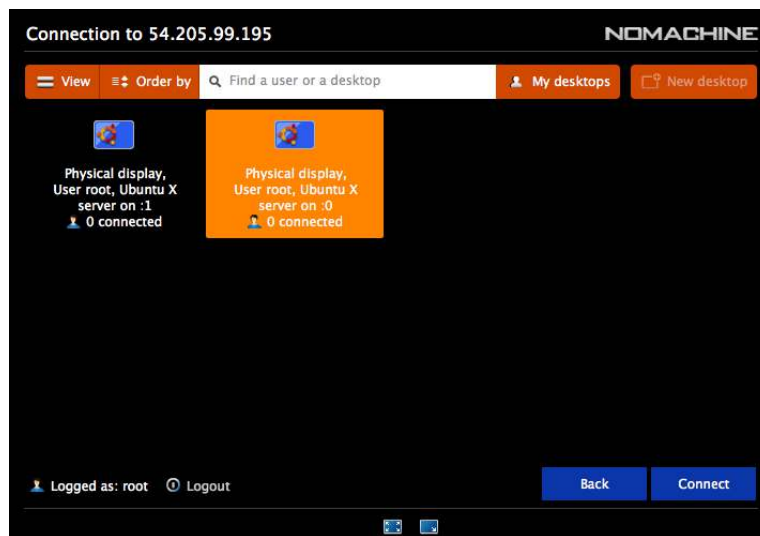
1.8. Select the newly created connection and Click on 'Connect':



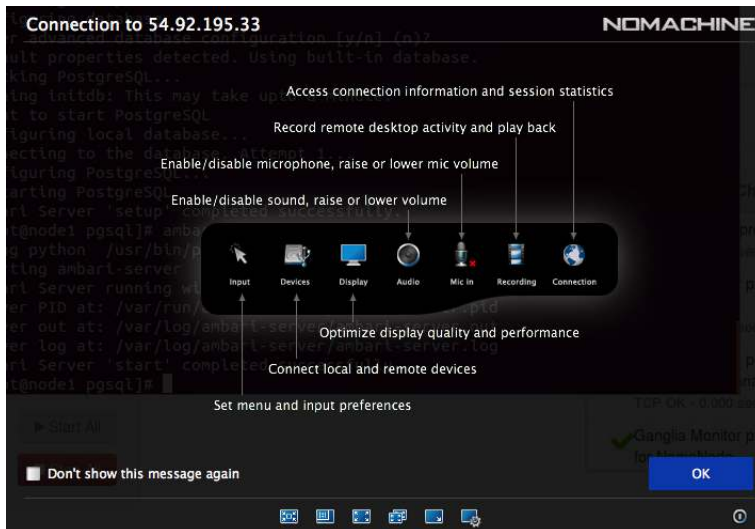
1.9. Enter Username (root) and Password (will be provided by the instructor). Click on 'Save this password in the connection file'. Click on 'OK':

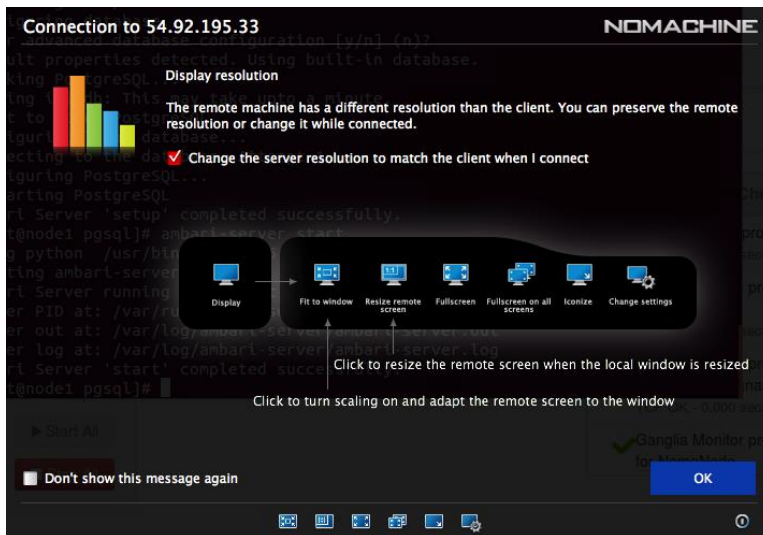
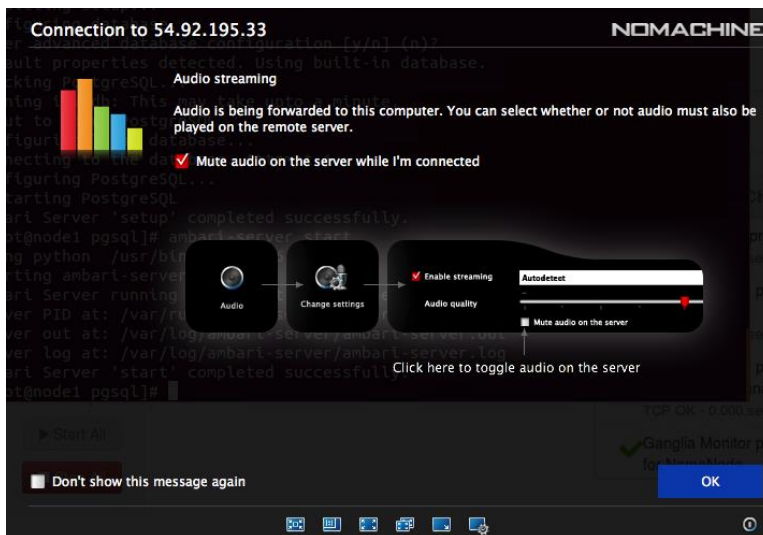
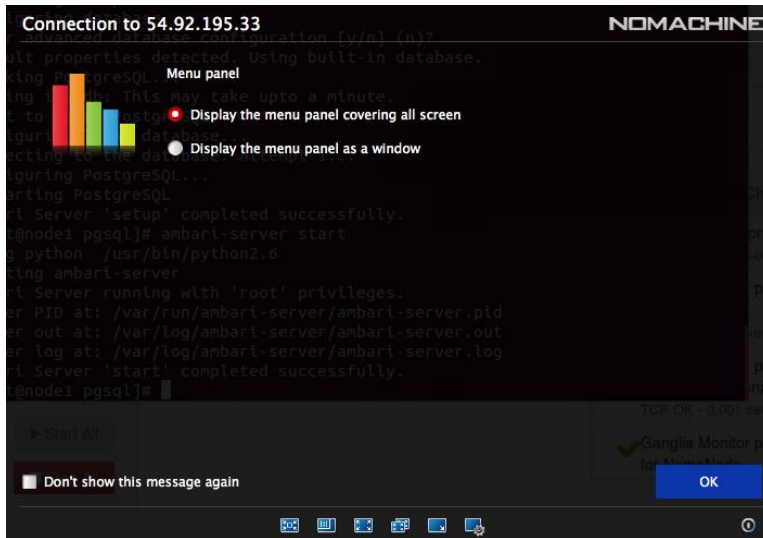


1.10. If you come across the below screen, please choose 'Physical display, User root, Ubuntu x server on: 0' and click on 'Connect':

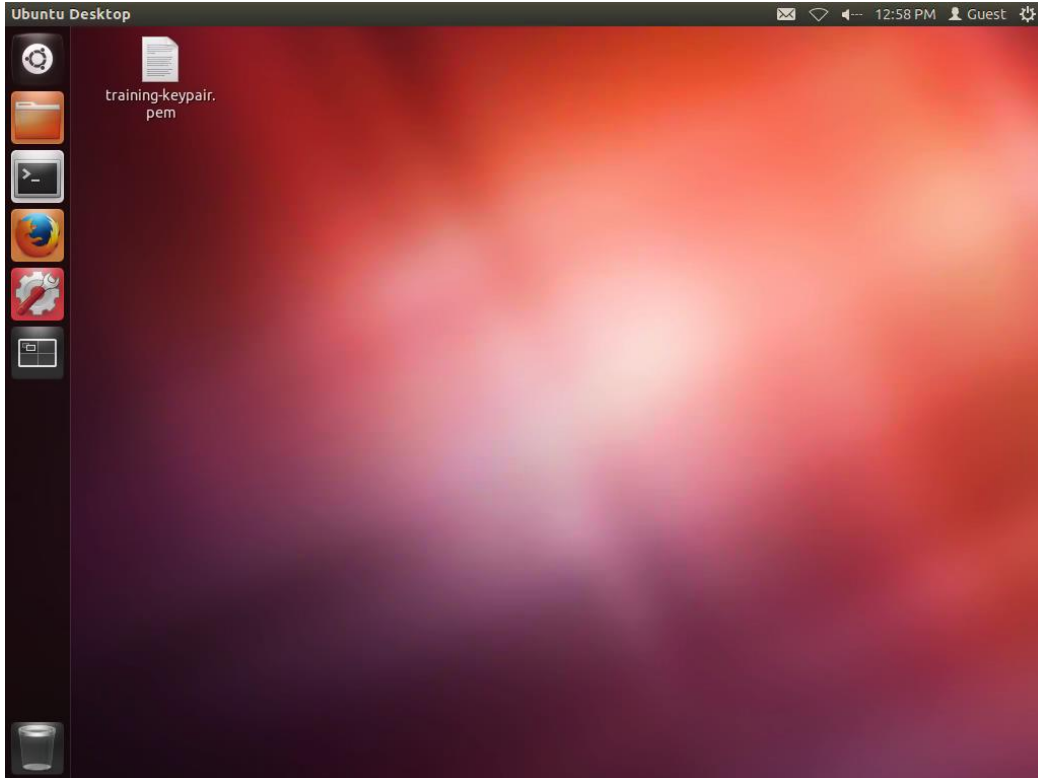


1.11. From this point, keep clicking on 'OK' to retain default settings until you see a login screen:



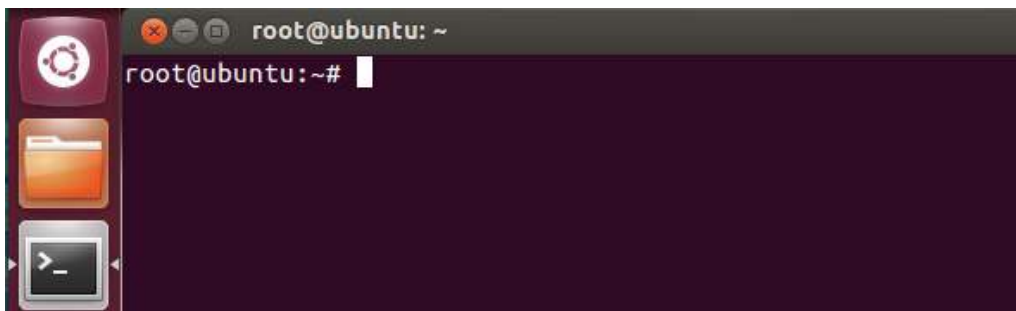
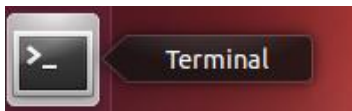


Now, you will be connected to AWS VM and you should see Lab environment Ubuntu Desktop:



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 (3rd 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.