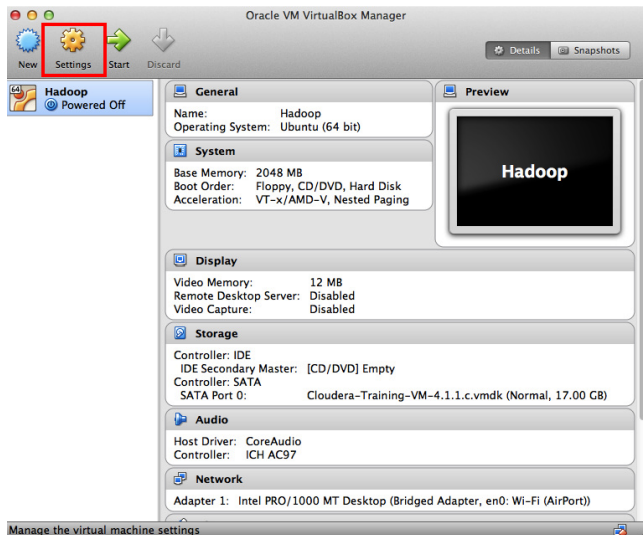


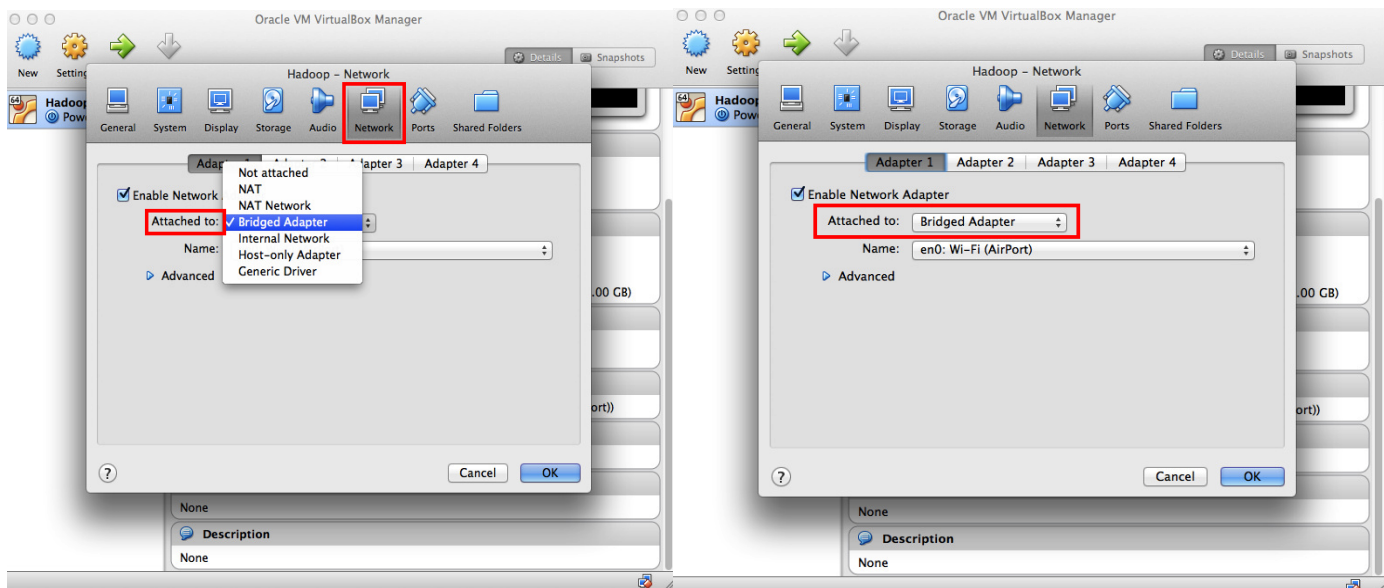
Transferring files back and forth to the VM

1) Change your network adapter to a Bridged Adaptor:

- In Virtual Box, select Hadoop in the left sidebar
- Click Settings at the top of the VirtualBox window

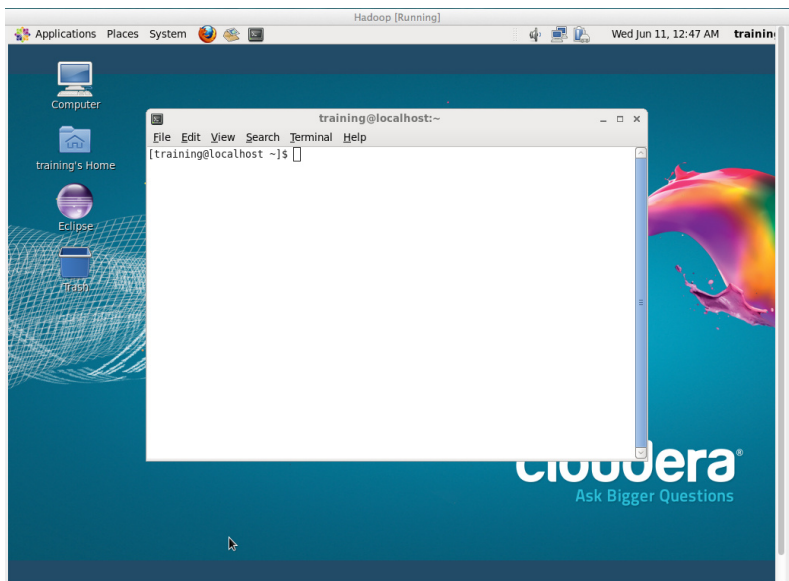


- Click Network
- Change "Attached to:" to "Bridged Adapter"

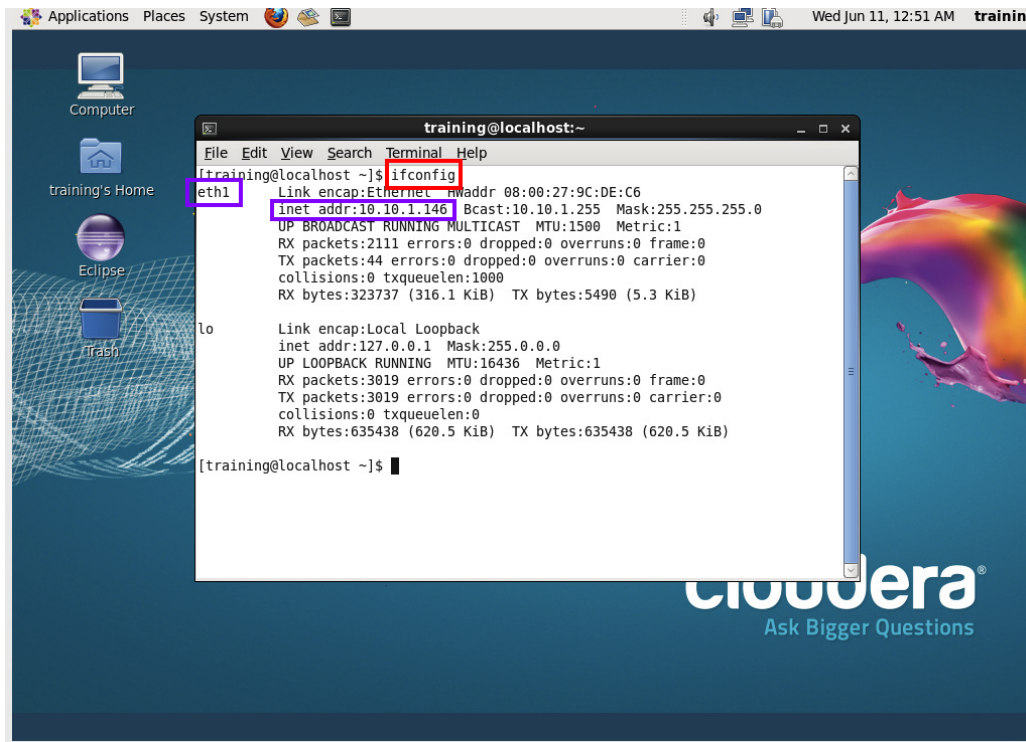


2) Run your Hadoop VM (by double clicking it in the left sidebar)

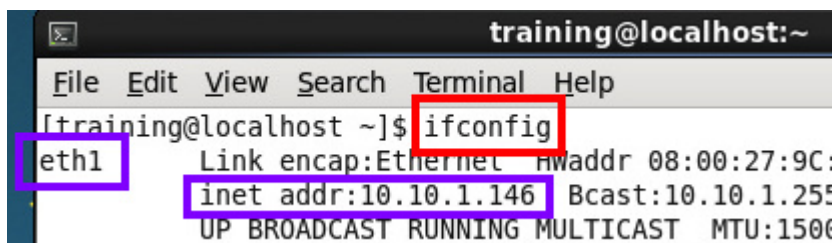
Now on your main VirtualBox Manager (similar to the first figure), double click on the Hadoop in order to run the Hadoop VM. After the booting process is complete (it may take a few minutes), you will see a window similar to the picture below (if Terminal is not open, simply go to the applications -> system tools -> Terminal):



3) In the terminal of your virtual machine type this at the prompt:



You should see output lines like the ones in the purple boxes:

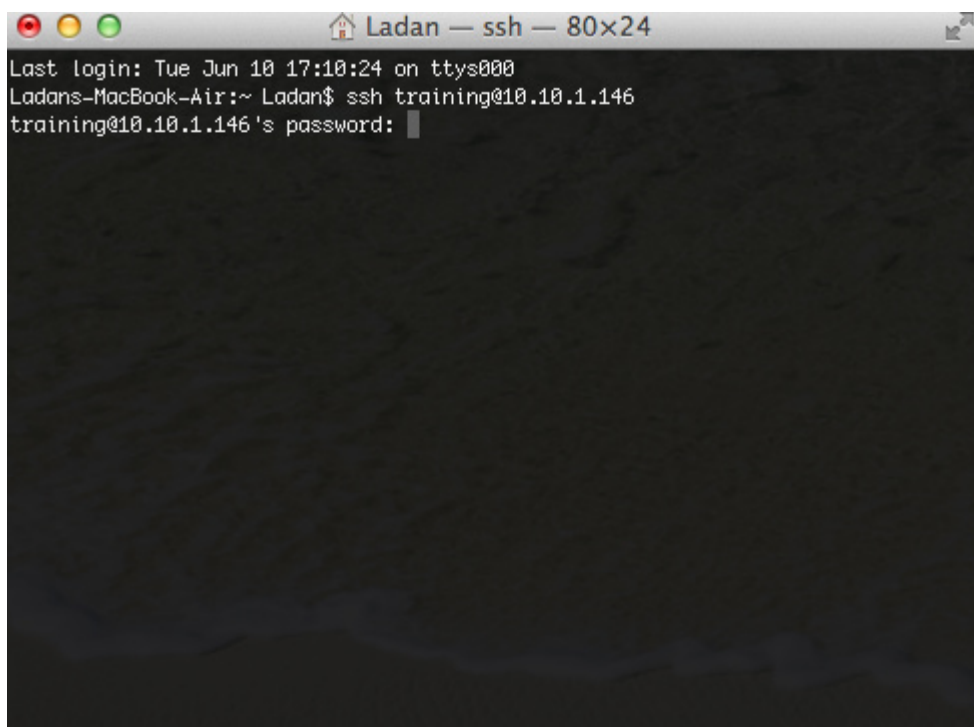


```
training@localhost:~  
File Edit View Search Terminal Help  
[training@localhost ~]$ ifconfig  
eth1      Link encap:Ethernet  HWaddr 08:00:27:9C:  
          inet addr:10.10.1.146  Bcast:10.10.1.255  
          UP BROADCAST RUNNING MULTICAST  MTU:1500
```

Note this ip address "10.10.1.146" - it might be different every time, so check it before you want to connect.

4) To connect with **ssh**:

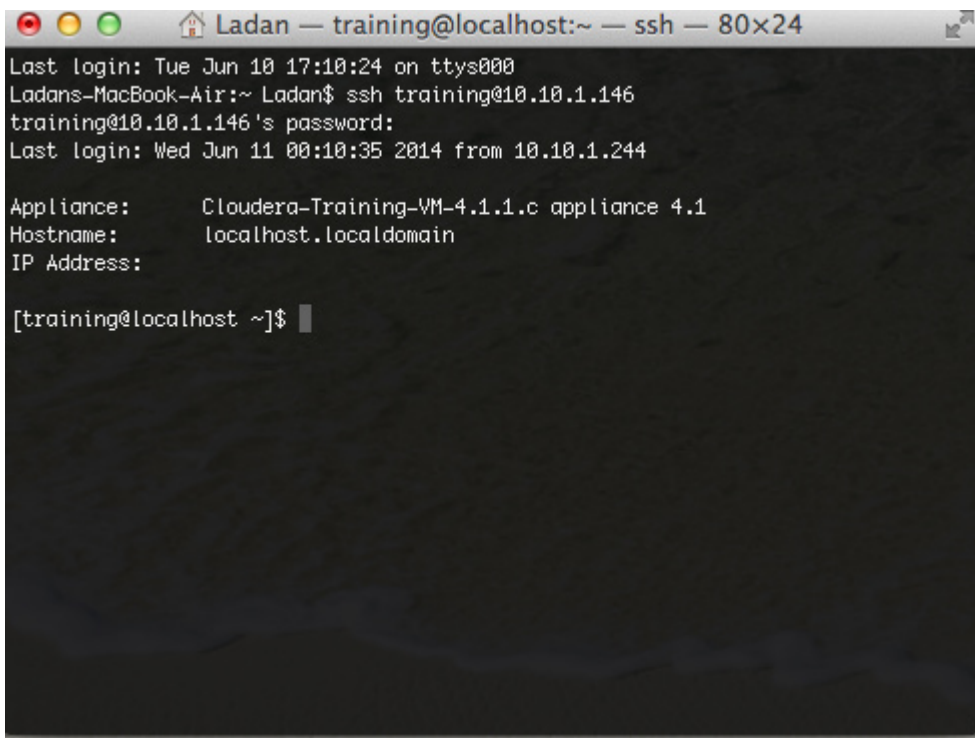
From your terminal program (on Mac) or putty program (on Windows), run this:



```
Ladan — ssh — 80x24  
Last login: Tue Jun 10 17:10:24 on ttys000  
Ladans-MacBook-Air:~ Ladan$ ssh training@10.10.1.146  
training@10.10.1.146's password: 
```

Using the ip address you got before. When you are prompted for a password, it's "training".

Once you are logged in you can use all the usual command as in the VM window, but now you should be able to cut and paste.

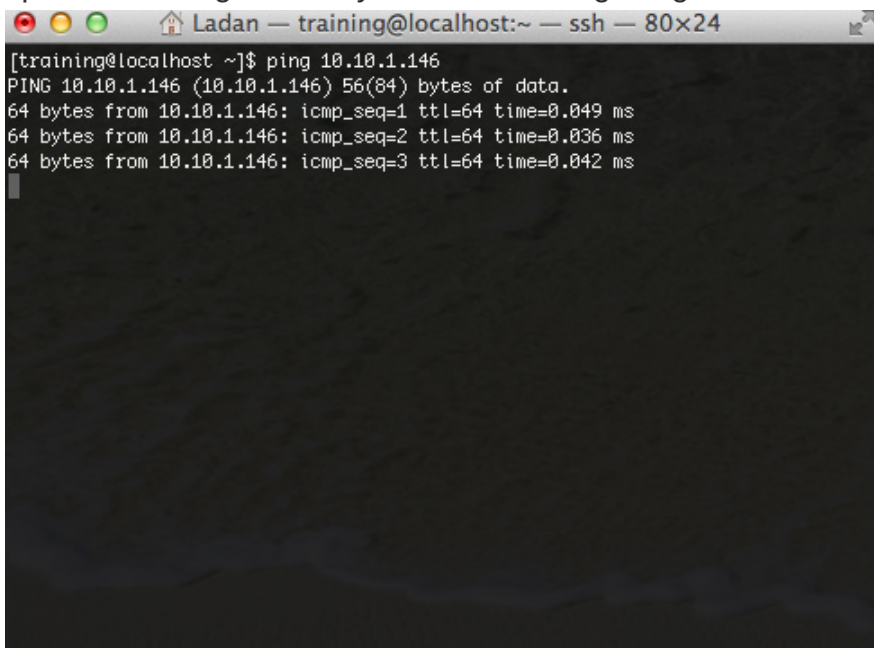
A terminal window titled 'Ladan — training@localhost:~ — ssh — 80x24'. The output shows a successful SSH login. The user 'training' connects from 'localhost' to '10.10.1.146'. The terminal displays the last login time, the user's password prompt, and system information including the appliance name 'Cloudera-Training-VM-4.1.1.c appliance 4.1', hostname 'localhost.localdomain', and IP address. The prompt '[training@localhost ~]\$' is visible at the bottom.

```
Ladan — training@localhost:~ — ssh — 80x24
Last login: Tue Jun 10 17:10:24 on ttys000
Ladans-MacBook-Air:~ Ladan$ ssh training@10.10.1.146
training@10.10.1.146's password:
Last login: Wed Jun 11 00:10:35 2014 from 10.10.1.244

Appliance:      Cloudera-Training-VM-4.1.1.c appliance 4.1
Hostname:       localhost.localdomain
IP Address:

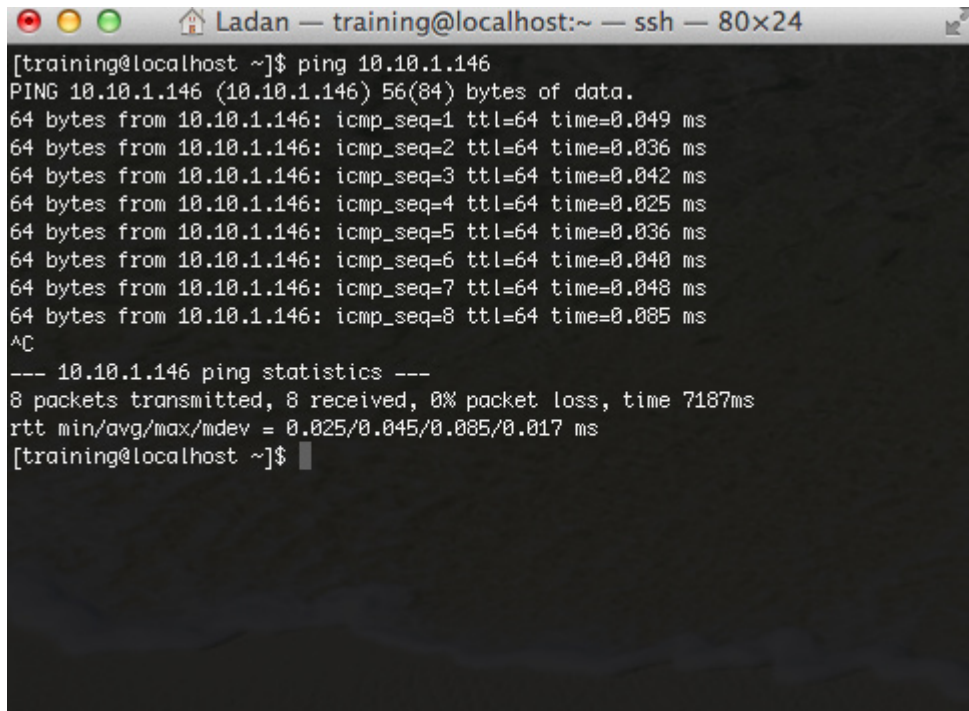
[training@localhost ~]$
```

If you are not prompted for a password, then maybe you cannot connect. First just make sure you spelled "training" correctly and have the right digits. You can try this with the IP address you are using:

A terminal window titled 'Ladan — training@localhost:~ — ssh — 80x24'. The user runs the command 'ping 10.10.1.146'. The output shows three successful ping responses from 10.10.1.146, each with 64 bytes of data, an ICMP sequence number, a TTL of 64, and a response time around 0.04 ms.

```
Ladan — training@localhost:~ — ssh — 80x24
[training@localhost ~]$ ping 10.10.1.146
PING 10.10.1.146 (10.10.1.146) 56(84) bytes of data.
64 bytes from 10.10.1.146: icmp_seq=1 ttl=64 time=0.049 ms
64 bytes from 10.10.1.146: icmp_seq=2 ttl=64 time=0.036 ms
64 bytes from 10.10.1.146: icmp_seq=3 ttl=64 time=0.042 ms
```

and hit Control-C after a few lines of output. If you see a comment that you have "100.0% packet loss" then these techniques won't work right now.



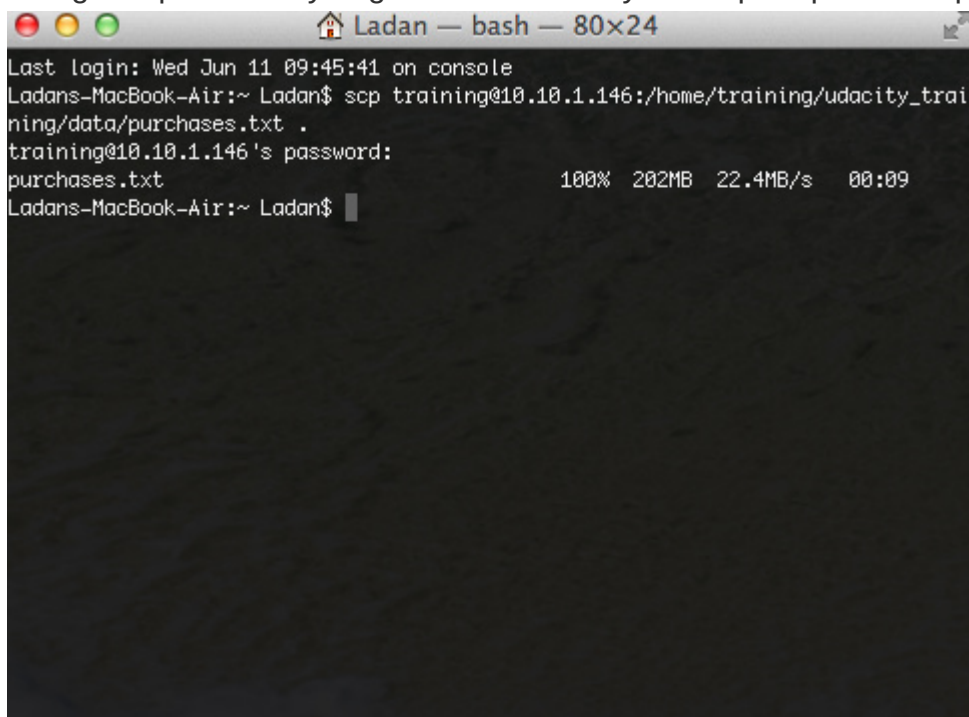
```
Ladan — training@localhost:~ — ssh — 80x24
[training@localhost ~]$ ping 10.10.1.146
PING 10.10.1.146 (10.10.1.146) 56(84) bytes of data:
64 bytes from 10.10.1.146: icmp_seq=1 ttl=64 time=0.049 ms
64 bytes from 10.10.1.146: icmp_seq=2 ttl=64 time=0.036 ms
64 bytes from 10.10.1.146: icmp_seq=3 ttl=64 time=0.042 ms
64 bytes from 10.10.1.146: icmp_seq=4 ttl=64 time=0.025 ms
64 bytes from 10.10.1.146: icmp_seq=5 ttl=64 time=0.036 ms
64 bytes from 10.10.1.146: icmp_seq=6 ttl=64 time=0.040 ms
64 bytes from 10.10.1.146: icmp_seq=7 ttl=64 time=0.048 ms
64 bytes from 10.10.1.146: icmp_seq=8 ttl=64 time=0.085 ms
^C
--- 10.10.1.146 ping statistics ---
8 packets transmitted, 8 received, 0% packet loss, time 7187ms
rtt min/avg/max/mdev = 0.025/0.045/0.085/0.017 ms
[training@localhost ~]$
```

5) To copy files back and forth with **scp**:

Example:

copy a file from hadoop vm to your machine (using "." for the current directory, this will also keep the same name. If you want to specify a new filename with a directory, you can use that instead of "."):

Using the ip address you got before. When you are prompted for a password, it's "training".

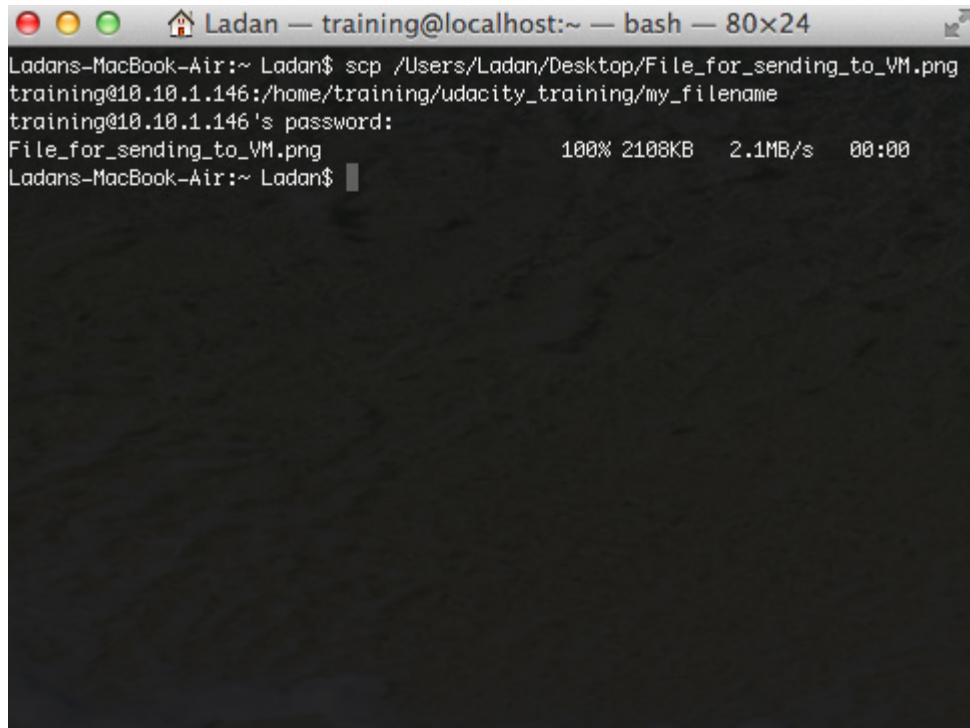


```
Ladan — bash — 80x24
Last login: Wed Jun 11 09:45:41 on console
Ladans-MacBook-Air:~ Ladan$ scp training@10.10.1.146:/home/training/udacity_train
ing/data/purchases.txt .
training@10.10.1.146's password:
purchases.txt                                100% 202MB 22.4MB/s 00:09
Ladans-MacBook-Air:~ Ladan$
```


Example:

copy a file from your machine (it is called `File_for_sending_to_VM.png` in here) to the hadoop vm (and overwrite "my_filename" on the hadoop vm):

Using the ip address you got before. When you are prompted for a password, it's "training".

A terminal window titled "Ladan — training@localhost:~ — bash — 80x24" shows the execution of an SCP command. The user "Ladan" on a "MacBook-Air" runs the command `scp /Users/Ladan/Desktop/File_for_sending_to_VM.png training@10.10.1.146:/home/training/udacity_training/my_filename`. The terminal prompts for the password "training@10.10.1.146's password:". After the password is entered, the file transfer progress is shown as "File_for_sending_to_VM.png 100% 2108KB 2.1MB/s 00:00". The prompt returns to "Ladans-MacBook-Air:~ Ladan\$".

```
Ladans-MacBook-Air:~ Ladan$ scp /Users/Ladan/Desktop/File_for_sending_to_VM.png
training@10.10.1.146:/home/training/udacity_training/my_filename
training@10.10.1.146's password:
File_for_sending_to_VM.png                100% 2108KB  2.1MB/s   00:00
Ladans-MacBook-Air:~ Ladan$
```

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