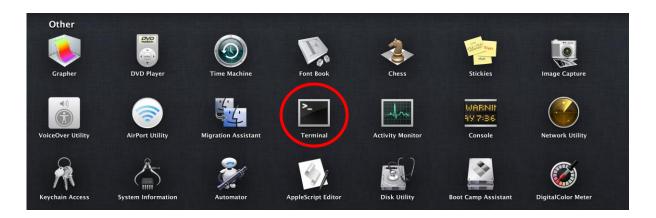
# Hadoop Installation with Single DataNode on Mac

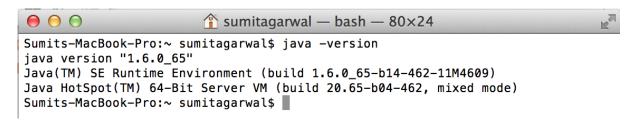


#### Open Terminal



- Check if Java is Installed :
- Command: java -version

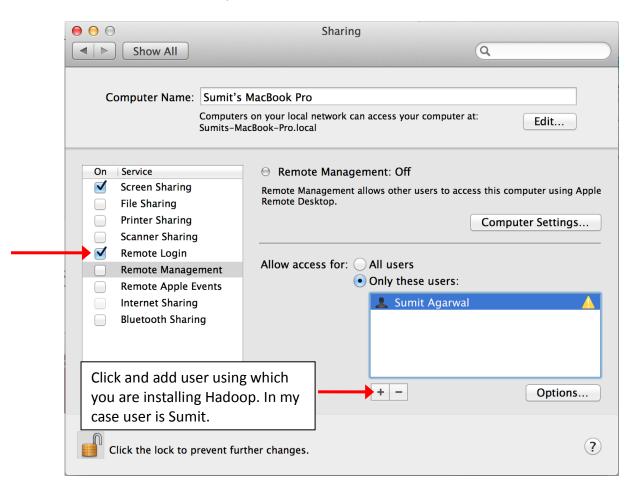
If you receive the below lines in the snap-shot then java is installed, else you will receive a pop-up requesting you **install Java** on your mac. Click on install and try the above command once again after the installation is done.



- ➤ Install SSH: SSH comes installed on your Mac. However, you need to enable access to your own machine (so hadoop doesn't ask you for a password). To do this, go to
- Go To: System Preferences > Sharing (under Internet & Network)



Under the list of services, check "Remote Login". For extra security, you can hit the radio button for "Only these Users"



- Create a ssh key:
- Command: ssh-keygen -t rsa -P ""
- Moving the key to authorized key:
- Command: cat \$HOME/.ssh/id rsa.pub >> \$HOME/.ssh/authorized keys
- Now try to login to localhost using ssh:
- > Command: ssh localhost
- exit

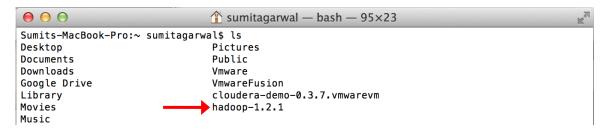
- Download Hadoop:
- Link: http://www.dsgnwrld.com/am/hadoop/common/hadoop-1.2.1/hadoop-1.2.1.tar.gz

By default the file will be downloaded in Downloads folder

- Extract Hadoop:
- > Command: tar -xzvf /Users/Enter your username/Downloads/hadoop-1.2.1.tar.gz



- Check whether hadoop has extracted or not:
- Command: Is



- Edit core-site.xml:
- Command: vi hadoop-1.2.1/conf/core-site.xml

```
<name>fs.default.name</name>
<value>hdfs://localhost:8020</value>
```

```
Sumits-MacBook-Pro:~ sumitagarwal$ vi hadoop-1.2.1/conf/core-site.xml
```

```
sumitagarwal — vim — 95×23

<?xml version="1.0"?>
<?xml-stylesheet type="text/xsl" href="configuration.xsl"?>

<!-- Put site-specific property overrides in this file. -->

<configuration>
cproperty>
<name>fs.default.name</name>
<value>hdfs://localhost:8020</value>
</property>
</configuration>
```

- Edit hdfs-site.xml:
- Command: vi hadoop-1.2.1/conf/hdfs-site.xml



> Edit mapred-site.xml:

<name>dfs.permissions</name>

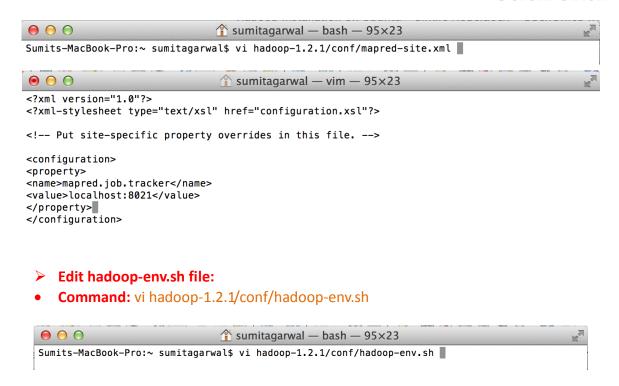
<value>false</value>

property>

</property>
</configuration>

• Command: vi hadoop-1.2.1/conf/mapred -site.xml

```
<name>mapred.job.tracker</name>
```



Uncomment the below shown export and add the below the path to your JAVA\_HOME & HADOOP\_HEAPSIZE:

**Type:** export JAVA\_HOME=/Library/Java/Home export HADOOP\_HEAPSIZE=2000

```
● ● ●
                                # Set Hadoop-specific environment variables here.
# The only required environment variable is JAVA_HOME. All others are
# optional. When running a distributed configuration it is best to
# set JAVA_HOME in this file, so that it is correctly defined on
# remote nodes.
# The java implementation to use. Required.
export JAVA_HOME=/Library/Java/Home
# Extra Java CLASSPATH elements. Optional.
# export HADOOP_CLASSPATH=
# The maximum amount of heap to use, in MB. Default is 1000.
export HADOOP_HEAPSIZE=2000
# Extra Java runtime options. Empty by default.
# export HADOOP_OPTS=-server
# Command specific options appended to HADOOP_OPTS when specified
export HADOOP_NAMENODE_OPTS="-Dcom.sun.management.jmxremote $HADOOP_NAMENODE_OPTS"
```

- Change the directory where hadoop is installed.
- Command: cd hadoop-1.2.1
- Format the name node
- Command: bin/hadoop namenode -format
- > Start the namenode, datanode, secondary namenode
- **Command:** bin/start-dfs.sh
- > Start the task tracker and job tracker
- **Command:** bin/start-mapred.sh
- > To check if Hadoop started correctly
- Command: jps

