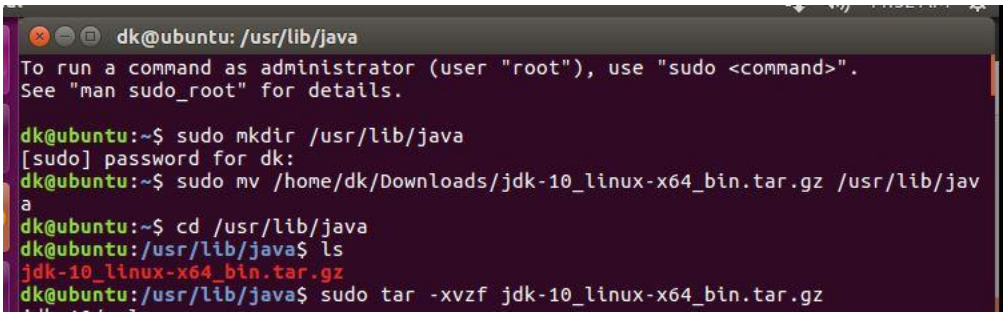
1) Created a virtual Machine in Vmware Workstation.
2) Installed Hadoop in Ubuntu 16.04 os.
3) Configured Ubuntu to run on two core two processors.

Hadoop Installation:

Install-java:
Download java: http://www.oracle.com/technetwork/java/javase/downloads/jdk10-downloads-4416644.html

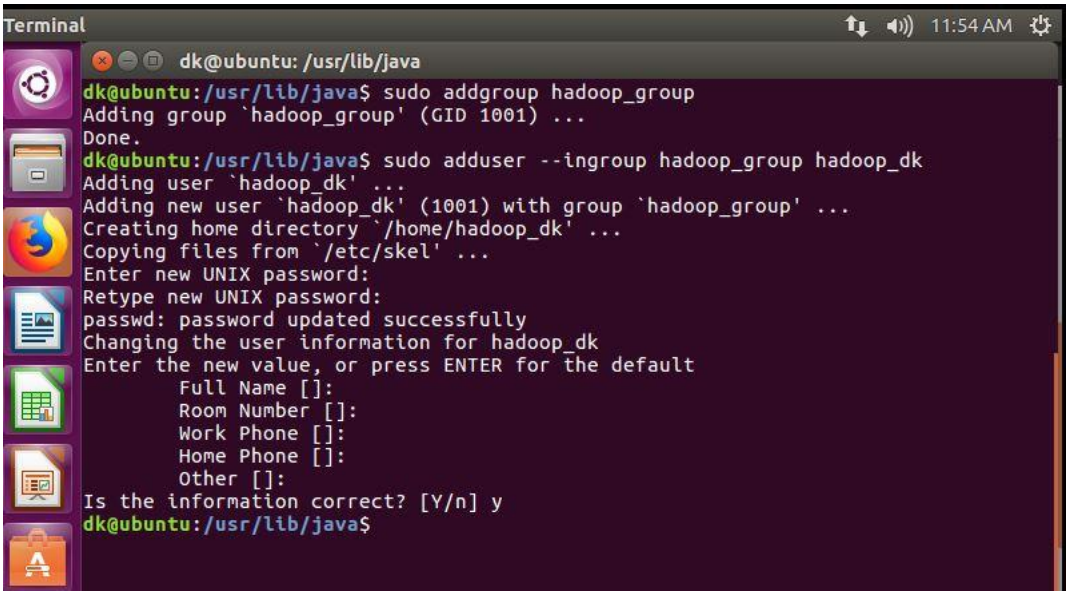


Verify-java installation:
java –version

Install-Hadoop:
http://download.nextag.com/apache/hadoop/common/hadoop-2.8.3/hadoop-2.8.3.tar.gz

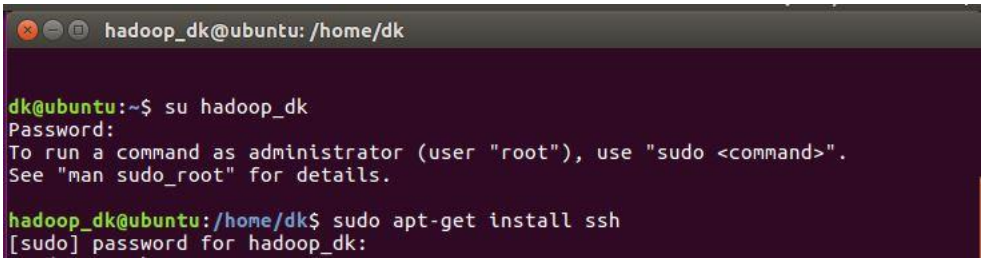
Add a Hadoop group and user:

sudo addgroup Hadoop_group
sudo adduser –ingroup hadoop_group hadoop_dk



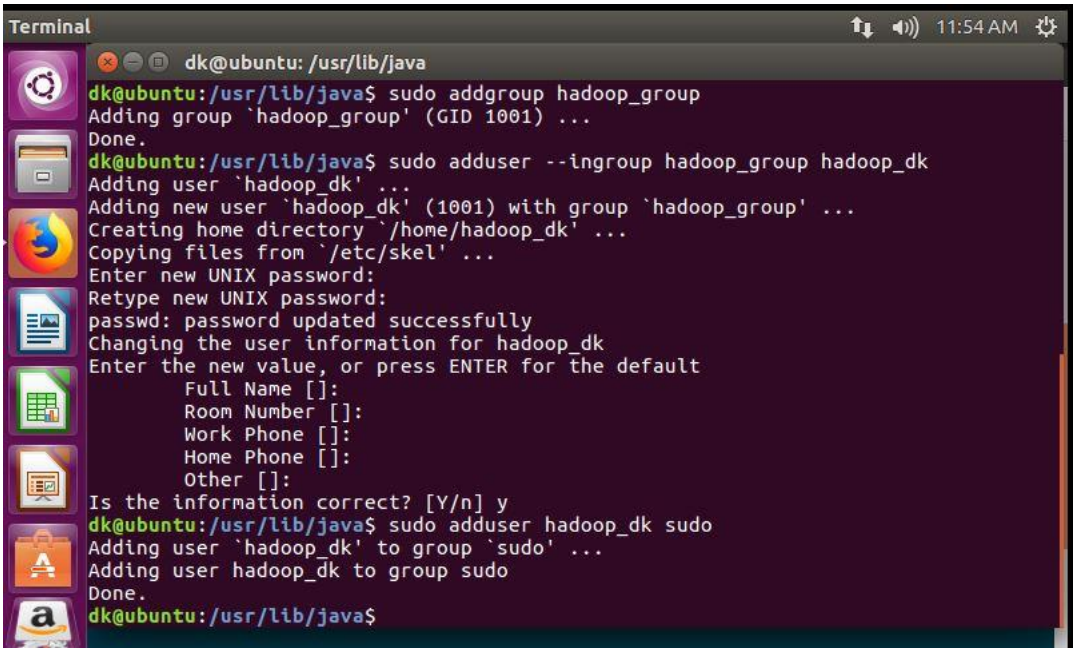
Installing SSH:

sudo apt-get install ssh



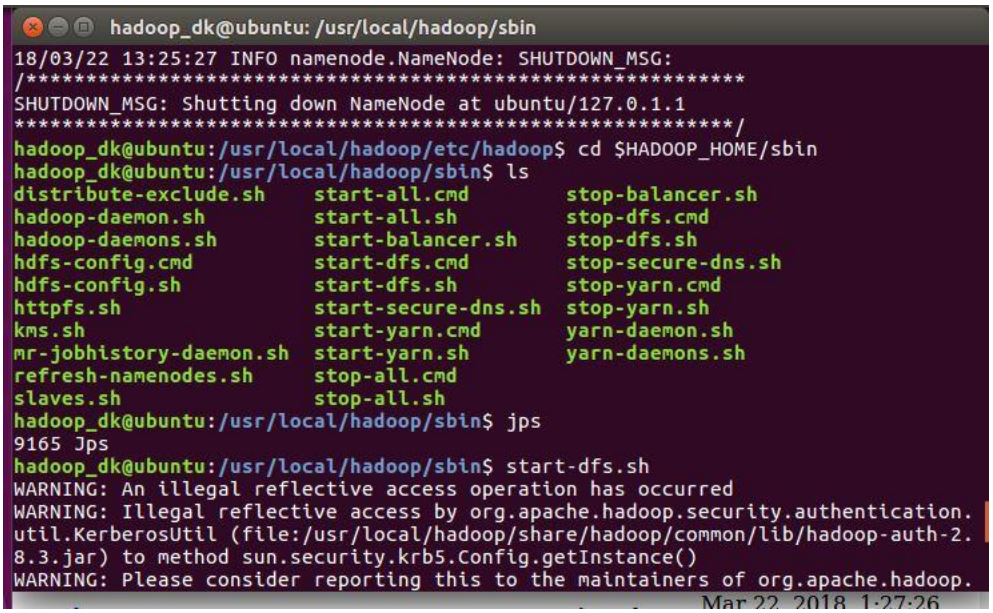
Add Hadoop user to sudo:

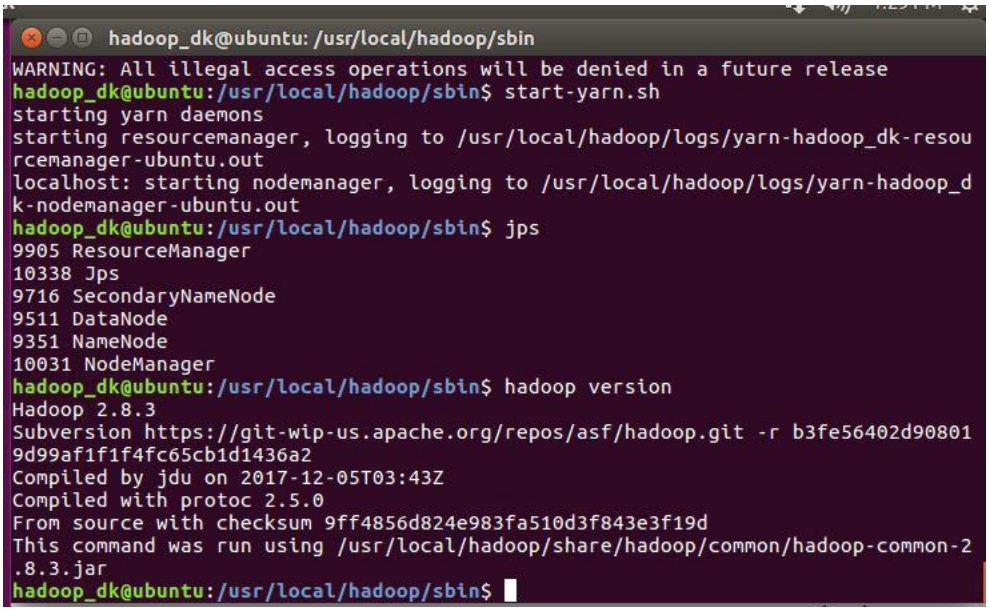
Sudo adduser Hadoop_dk sudo



Edit hadoop configuration files as per the official documentation:
Reference video: https://www.youtube.com/watch?v=EDcXRPKk7Qk&t=2149s

Start-hadoop clusters:
Cd $Hadoop_home/sbin
Start-dfs.sh
Start-yarn.sh
Run jps to check all the active services.


hadoop_dk@ubuntu: /usr/local/hadoop/sbin
18/03/22 13:25:27 INFO namenode.NameNode: SHUTDOWN_MSG:
/**
SHUTDOWN_MSG: Shutting down NameNode at ubuntu/127.0.1.1
**/
hadoop_dk@ubuntu:/usr/local/hadoop/etc/hadoop$ cd $HADOOP_HOME/sbin
hadoop_dk@ubuntu:/usr/local/hadoop/sbin$ ls
distribute-exclude.sh start-all.cmd stop-balancer.sh
hadoop-daemon.sh start-all.sh stop-dfs.cmd
hadoop-daemons.sh start-balancer.sh stop-dfs.sh
hdfs-config.cmd start-dfs.cmd stop-secure-dns.sh
hdfs-config.sh start-dfs.sh stop-yarn.cmd
httpfs.sh start-secure-dns.sh stop-yarn.sh
kms.sh start-yarn.cmd yarn-daemon.sh
mr-jobhistory-daemon.sh start-yarn.sh yarn-daemons.sh
refresh-namenodes.sh stop-all.cmd
slaves.sh stop-all.sh
hadoop_dk@ubuntu:/usr/local/hadoop/sbin$ jps
9165 Jps
hadoop_dk@ubuntu:/usr/local/hadoop/sbin$ start-dfs.sh
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by org.apache.hadoop.security.authentication.
util.KerberosUtil (file:/usr/local/hadoop/share/hadoop/common/lib/hadoop-auth-2.
8.3.jar) to method sun.security.krb5.Config.getInstance()
WARNING: Please consider reporting this to the maintainers of org.apache.hadoop.


hadoop_dk@ubuntu: /usr/local/hadoop/sbin
WARNING: All illegal access operations will be denied in a future release
hadoop_dk@ubuntu:/usr/local/hadoop/sbin$ start-yarn.sh
starting yarn daemons
starting resourcemanager, logging to /usr/local/hadoop/logs/yarn-hadoop_dk-resou
rcemanager-ubuntu.out
localhost: starting nodemanager, logging to /usr/local/hadoop/logs/yarn-hadoop_d
k-nodemanager-ubuntu.out
hadoop_dk@ubuntu:/usr/local/hadoop/sbin$ jps
9905 ResourceManager
10338 Jps
9716 SecondaryNameNode
9511 DataNode
9351 NameNode
10031 NodeManager
hadoop_dk@ubuntu:/usr/local/hadoop/sbin$ hadoop version
Hadoop 2.8.3
Subversion https://git-wip-us.apache.org/repos/asf/hadoop.git -r b3fe56402d90801
9d99af1f1f4fc65cb1d1436a2
Compiled by jdu on 2017-12-05T03:43Z
Compiled with protoc 2.5.0
From source with checksum 9ff4856d824e983fa510d3f843e3f19d
This command was run using /usr/local/hadoop/share/hadoop/common/hadoop-common-2
.8.3.jar
hadoop_dk@ubuntu:/usr/local/hadoop/sbin$