hostname

```
sudo vim /etc/hostname
```

network

```
sudo vim /etc/network/interfaces
```

```
# The loopback network interface
auto lo
iface lo inet loopback

# The primary network interface
auto eth0
# iface eth0 inet dhcp
iface eth0 inet static
address 192.168.101.101
netmask 255.255.255.0
gateway 192.168.102.2
dns-nameservers 192.168.101.254 8.8.8.8
```

hosts

```
sudo vim /etc/hosts
```

```
127.0.0.1       localhost
127.0.1.1       ubuntu
192.168.101.101 Hadoop-NameNode
192.168.101.102 Hadoop-DataNode-1
192.168.101.103 Hadoop-DataNode-2

# The following lines are desirable for IPv6 capable hosts
::1     localhost ip6-localhost ip6-loopback
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
```

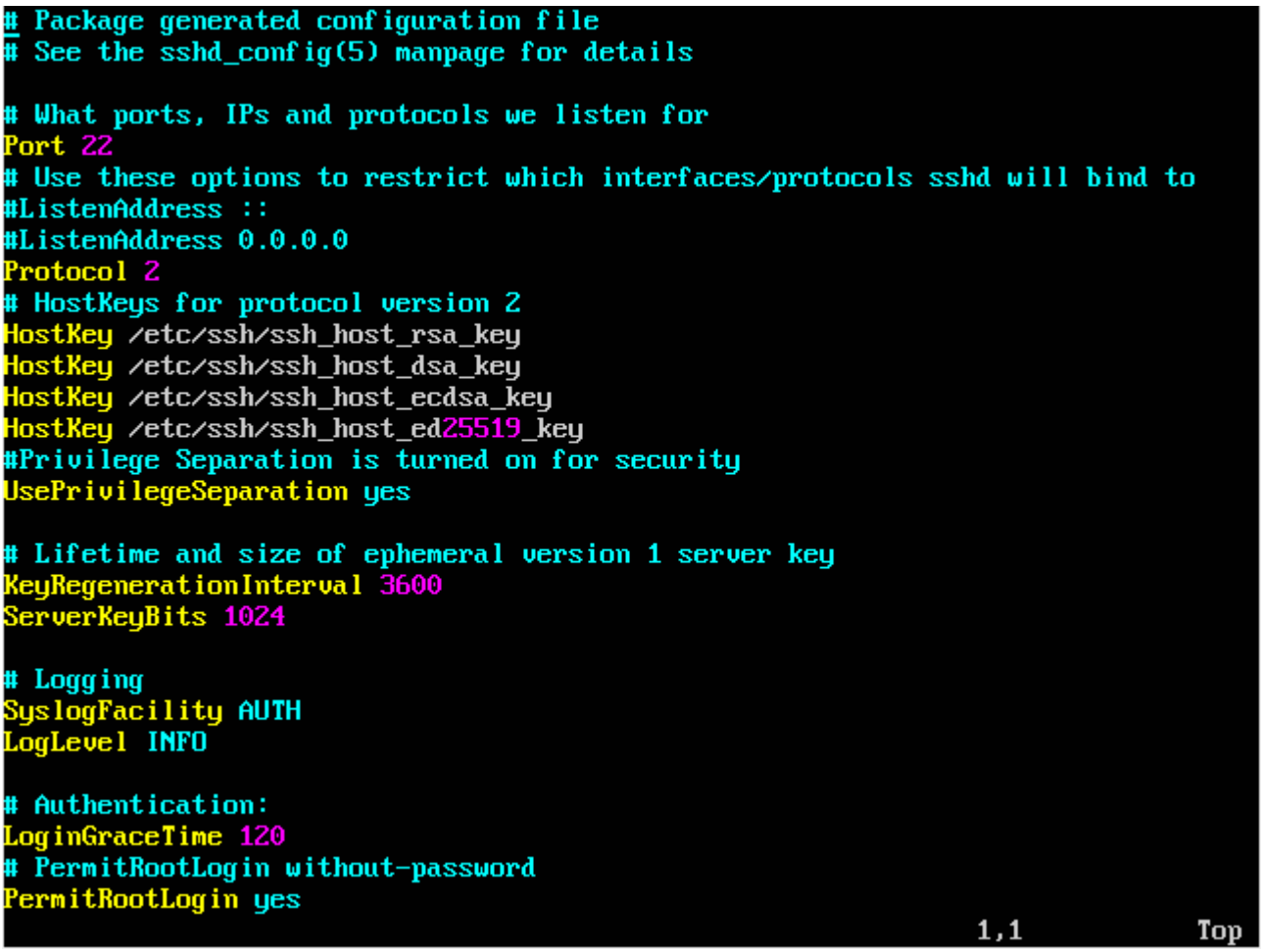
権限の有効化

```
# setting password for root ( All Nodes )
sudo passwd root

# login as root
su - root
```

enable root ssh login (All Nodes)

```
sudo vim /etc/ssh/sshd_config
```

```
# PermitRootLogin without-password
PermitRootLogin yes
```



ssh passwordless login (All Nodes)

パスワードなしでのsshログインが必要となります

```
# ssh localhost
# ll ~/.ssh
# rm ./id_rsa*
ssh-keygen -t rsa
```

```
root@hadoop-master:~# ssh-keygen -t rsa
Generating public/private rsa key pair.
Enter file in which to save the key (/root/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /root/.ssh/id_rsa.
Your public key has been saved in /root/.ssh/id_rsa.pub.
The key fingerprint is:
9d:d5:93:32:16:fd:4b:90:44:f1:0b:ed:ce:1b:00:06 root@hadoop-master
The key's randomart image is:
+--[ RSA 2048]----+
|         E  +=o  |
|          .  =+. |
|           o=.=+ |
|          ..+.oooo|
|        S o  ..o.|
|              +. |
|               + |
|                o|
|               . |
+-----------------+
root@hadoop-master:~# _
```

print rsa key to authorized (All Nodes)

```
cd ~
cat .ssh/id_rsa.pub >> .ssh/authorized_keys
```

test (All Nodes)

```
# ssh localhost-name
ssh localhost
```

sent to remote node (Master Node)

```
scp ~/.ssh/authorized_keys root@remote-node:/root/.ssh/authorized_keys
```

JDK (All Nodes)

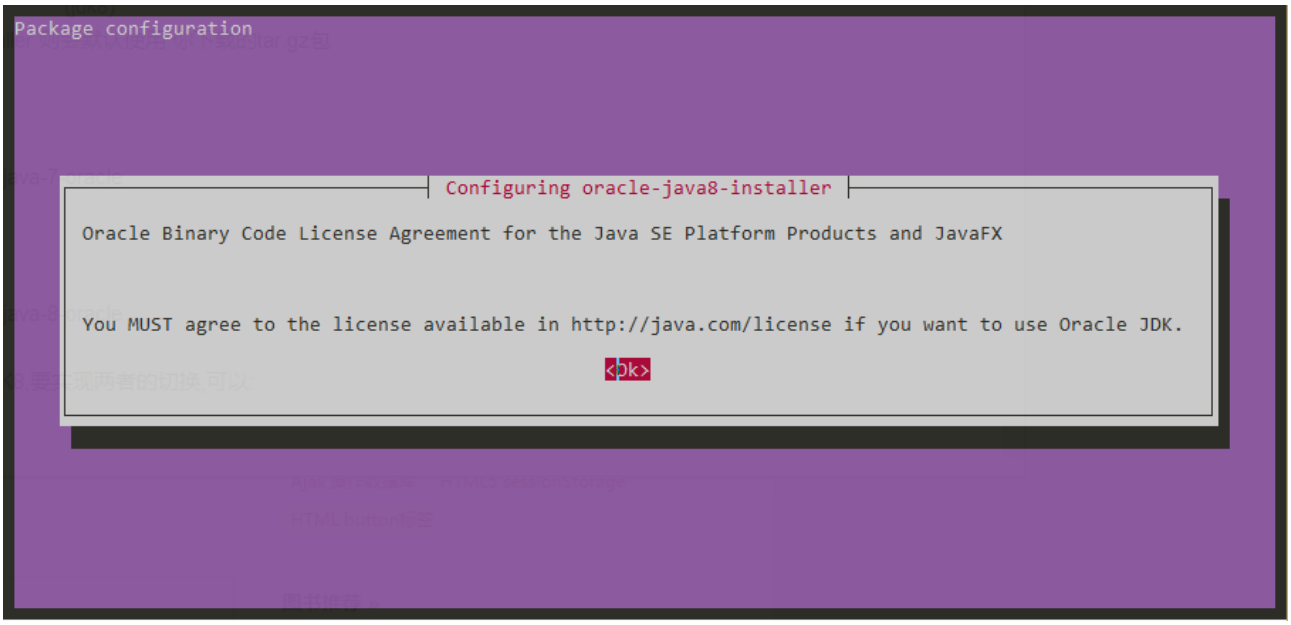
append ppa

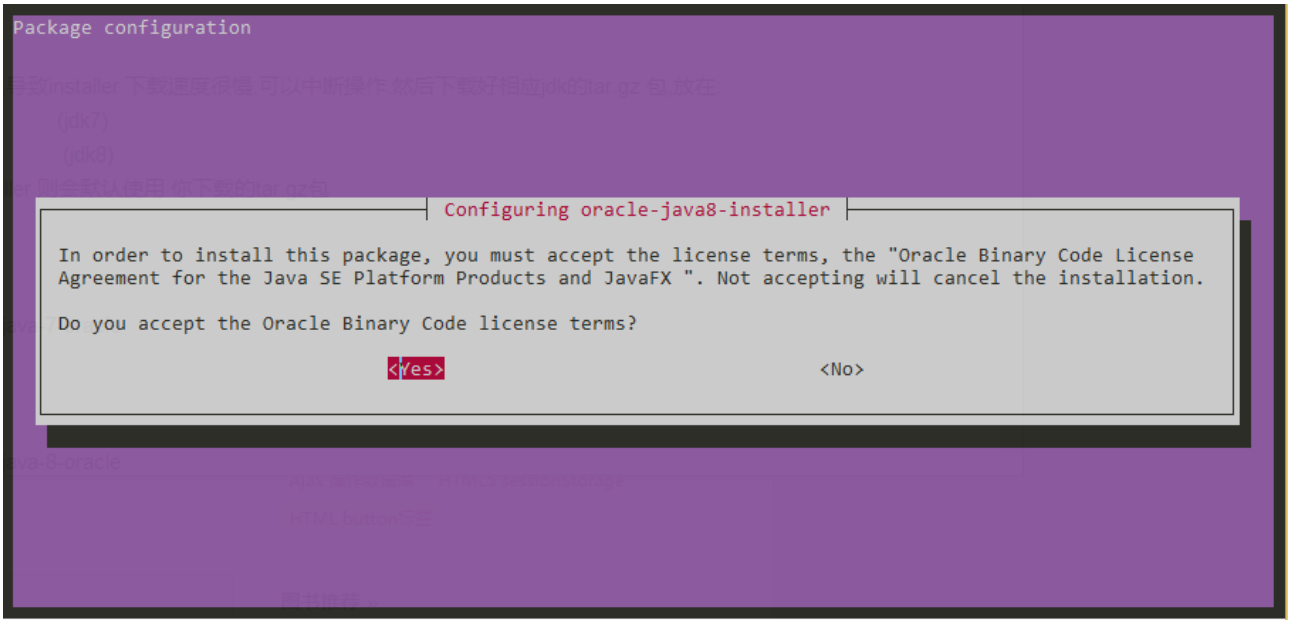
```
add-apt-repository ppa:webupd8team/java
apt-get update
```

```
root@hadoop-master:~# sudo add-apt-repository ppa:webupd8team/java
 Oracle Java (JDK) Installer (automatically downloads and installs Oracle JDK7 / JDK8 / JDK9). There are no act
ual Java files in this PPA.

More info (and Ubuntu installation instructions):
- for Oracle Java 7: http://www.webupd8.org/2012/01/install-oracle-java-jdk-7-in-ubuntu-via.html
- for Oracle Java 8: http://www.webupd8.org/2012/09/install-oracle-java-8-in-ubuntu-via-ppa.html

Debian installation instructions:
- Oracle Java 7: http://www.webupd8.org/2012/06/how-to-install-oracle-java-7-in-debian.html
- Oracle Java 8: http://www.webupd8.org/2014/03/how-to-install-oracle-java-8-in-debian.html

Oracle Java 9 (for both Ubuntu and Debian): http://www.webupd8.org/2015/02/install-oracle-java-9-in-ubuntu-linu
x.html

For JDK9, the PPA uses standard builds from: https://jdk9.java.net/download/ (and not the Jigsaw builds!).

Important!!! For now, you should continue to use Java 8 because Oracle Java 9 is available as an early access r
elease! You should only use Oracle Java 9 if you explicitly need it, because it may contain bugs and it might n
ot include the latest security patches! Also, some Java options were removed in JDK9, so you may encounter issu
es with various Java apps. More information and installation instructions (Ubuntu / Linux Mint / Debian): http:
//www.webupd8.org/2015/02/install-oracle-java-9-in-ubuntu-linux.html
 More info: https://launchpad.net/~webupd8team/+archive/ubuntu/java
Press [ENTER] to continue or ctrl-c to cancel adding it
```

install jdk8 (All Nodes)

```
1.  apt-get install oracle-java8-installer
```





test (All Nodes)

```
java -version
javac -version
```

```
root@hadoop-master:~# java -version
java version "1.8.0_121"
Java(TM) SE Runtime Environment (build 1.8.0_121-b13)
Java HotSpot(TM) 64-Bit Server VM (build 25.121-b13, mixed mode)
root@hadoop-master:~# javac -version
javac 1.8.0_121
root@hadoop-master:~#
```