In centos 7

1. Yum commands does not work,
2. Then go to /etc/sysconfig/network-scripts/ifgcfg-eth
3. Update last lin onboot to yes and then write dhclient to restart the network

Ifconfig new equivalent is ip addr

**yum groupinstall "GNOME Desktop" -y**

<https://www.rootusers.com/how-to-install-gnome-gui-in-centos-7-linux/>

install dkms <https://centos.pkgs.org/7/epel-x86_64/dkms-2.6.1-1.el7.noarch.rpm.html>

display complete screen in virtualbox centos 7

<https://www.centos.org/forums/viewtopic.php?t=64337>

download epel from website

virtualbox error :: Try manually mounting it:

* Open a terminal.
* Type the following commands:
* sudo mount /dev/sr0 /mnt
* ls -l /mnt
* Then if the CD contents was shown, open /mnt in Nautilus (a.k.a File Manager) and intall the Guest Additions.

If those steps didn't work, try this:

* Download the guest additions ISO from the VM (via virtualbox website).
* Right click on it --> Open with... --> Disk image mounter.
* Open the newly mounted disk.

Configure static ip

https://www.cyberciti.biz/faq/howto-setting-rhel7-centos-7-static-ip-configuration/

cd /etc/sysconfig/network-scripts/

TYPE=Ethernet

PROXY\_METHOD=none

BROWSER\_ONLY=no

BOOTPROTO=none

#Server IP#

IPADDR=192.168.1.30

#Subnet#

NETMASK=255.255.255.0

#Set default Ip gateway#

GATEWAY=192.168.1.1

#SET DNS Servers#

DNS1=192.168.1.1

DNS2=8.8.8.8

DNS3=8.8.4.4

DEFROUTE=yes

IPV4\_FAILURE\_FATAL=no

#Disable ipv6#

IPV6INIT=no

NAME=enp0s3

UUID=31717122-149b-4193-a5f9-f67d1270af09

DEVICE=enp0s3

ONBOOT=yes

NM\_CONTROLLED=no

ZONE=public

-- INSERT –

Get product uid

cat /sys/class/dmi/id/product\_uuid

yum install <https://people.centos.org/toracat/kernel/7/plus/bug15570new/kernel-3.10.0-957.5.1.bug15570.plus.el7.x86_64.rpm>

yum install <https://people.centos.org/toracat/kernel/7/plus/bug15570new/kernel-devel-3.10.0-957.5.1.bug15570.plus.el7.x86_64.rpm>

TYPE=Ethernet

PROXY\_METHOD=none

BROWSER\_ONLY=no

BOOTPROTO=none

#Server IP#

IPADDR=192.168.1.10

#Subnet#

NETMASK=255.255.255.0

#Set default Ip gateway#

GATEWAY=192.168.1.1

#SET DNS Servers#

DNS1=192.168.1.1

DNS2=8.8.8.8

DNS3=8.8.4.4

DEFROUTE=yes

IPV4\_FAILURE\_FATAL=no

#Disable ipv6#

IPV6INIT=no

/var/run/yum.pid: another copy is running

ps aux | grep -i yum

# kill -9 523  
# killall -9 yum

Hadoop read and write

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127.0.0.1 localhost

192.168.1.30 node1

192.168.1.31 node2

192.168.1.32 node2

192.168.1.33 node4

Add user and group

And give sudo powers

Sudo groupadd Hadoop

Aaduser -g Hadoop Hadoop

Passwd Hadoop

usermod -a -G hadoop Hadoop

visudo

root ALL=(ALL) ALL

node1 ALL=(ALL) ALL

hadoop ALL=(ALL) ALA

add java path into .bash\_profile

yum clean all & yum clean metadata

sudo yum install java-1.7.0-openjdk-devel

sudo yum install java-1.7.0-openjdk

/usr/lib/jvm/java-1.7.0-openjdk-1.7.0.211-2.6.17.1.el7\_6.x86\_64/bin

PATH=$PATH:$HOME/bin:/usr/lib/jvm/java-1.7.0-openjdk-1.7.0.211-2.6.17.1.el7\_6.x86\_64/bin

export PATH

export JAVA\_HOME=/usr/lib/jvm/java-1.7.0-openjdk-1.7.0.211-2.6.17.1.el7\_6.x86\_64

which java

whereis java

in bash\_profile

export JAVA\_HOME=/usr/bin/java/

source bash\_profile

install ssh

ssh-keygen

ssh-copy-id root@node4

update in sshd\_config in /etc/ssh/sshd\_config PubkeyAuthetication yes

download Hadoop 1 on any machine

wget <https://archive.apache.org/dist/hadoop/core/hadoop-1.2.1/hadoop-1.2.1.tar.gz>

scp hadoop-1.2.1.tar.gz hadoop@node2:/tmp

read iptables ,iperf,mtr

sudo mv had>>> /usr/local

then vi /etc/rc.d/rc.local

add bin/rm -rf /tmp/\*

run commands at runlevel

in usr/local untar

then create link sudo ln -s hadoop1.2.1 hadoop

now change owner

sudo ln -s hadoop-1.2.1 hadoop

[hadoop@node1 local]$ sudo chown -R hadoop:hadoop hadoop

[hadoop@node1 local]$ sudo chown -R hadoop:hadoop hadoop-1.2.1/

List of open ports::

lsof -i

netstat -vatn

format namenode

[hadoop@node1 ~]$ sudo firewall-cmd --permanent --zone=public --add-service=http

[sudo] password for hadoop:

success

[hadoop@node1 ~]$ lsof -i -P |grep http

[hadoop@node1 ~]$ sudo firewall-cmd --permanent --zone=public --add-port=80/tcp

success

[hadoop@node1 ~]$ lsof -i -P |grep http

[hadoop@node1 ~]$ sudo firewall-cmd --permanent --zone=public --add-port=9001/tcp

success

[hadoop@node1 ~]$ sudo firewall-cmd --permanent --zone=public --add-port=9002/tcp

success

[hadoop@node1 ~]$ sudo firewall-cmd --permanent --zone=public --add-port=9000/tcp

success

[hadoop@node1 ~]$ firewall-cmd –reload

Error:: 2019-03-25 11:26:17,892 FATAL org.apache.hadoop.mapred.JobTracker: java.net.BindException: Problem binding to node2/192.168.1.31:8021 : Cannot assign requested address

Call to node1/192.168.1.30:8020 failed on local exception: java.net.NoRouteToHostException: No route to host

[hadoop@node1 logs]$ sudo firewall-cmd --zone=public --add-port=8020/tcp --permanent

[sudo] password for hadoop:

success

[hadoop@node1 logs]$ sudo firewall-cmd --zone=public --add-port=8021/tcp –permanent

firewall-cmd --list-all

sudo netstat -plten | grep java

[hadoop@node4 hadoop]$ sudo firewall-cmd --zone=public --add-port=50010/tcp --permanent

[sudo] password for hadoop:

success

[hadoop@node4 hadoop]$ sudo firewall-cmd --zone=public --add-port=50070/tcp --permanent

success

[hadoop@node4 hadoop]$ sudo firewall-cmd --zone=public --add-port=50075/tcp --permanent

success

[hadoop@node4 hadoop]$ sudo firewall-cmd --zone=public --add-port=50090/tcp –permanent

Count number of files :: ls -l | grep -v ^l | wc -l

sudo yum install nfs-utils

[d1@d1 ~]$ sudo firewall-cmd --add-service=nfs

[sudo] password for d1:

success

[d1@d1 ~]$ firewall-cmd --add-service=rpc-bind

success

[d1@d1 ~]$ firewall-cmd --add-service=mountd

Success

[hadoop@node1 ~]$ sudo mount -t nfs d1:/impdata /mnt/nfs/bigdata

^C

[hadoop@node1 ~]$ sudo mount d1:/impdata /mnt/nfs/bigdata

^C

[hadoop@node1 ~]$ sudo firewall-cmd --add-service=nfs --permanent

success

[hadoop@node1 ~]$ sudo firewall-cmd --add-service=rpc-bind --permanent

success

[hadoop@node1 ~]$ sudo firewall-cmd --add-service=mountd --permanent

success

[hadoop@node1 ~]$ sudo mount d1:/impdata /mnt/nfs/bigdata

^C

[hadoop@node1 ~]$ sudo mount d1:/impdata /mnt/nfs/bigdata

^C

[hadoop@node1 ~]$ systemctl status network

● network.service - LSB: Bring up/down networking

Loaded: loaded (/etc/rc.d/init.d/network; bad; vendor preset: disabled)

Active: active (exited) since Mon 2019-04-08 10:10:56 IST; 1h 22min ago

Docs: man:systemd-sysv-generator(8)

Tasks: 0

[hadoop@node1 ~]$ systemctl restart firewalld

[hadoop@node1 ~]$ systemctl restart network

[hadoop@node1 ~]$ systemctl status network

● network.service - LSB: Bring up/down networking

Loaded: loaded (/etc/rc.d/init.d/network; bad; vendor preset: disabled)

Active: active (exited) since Mon 2019-04-08 11:34:16 IST; 2s ago

Docs: man:systemd-sysv-generator(8)

Process: 16756 ExecStop=/etc/rc.d/init.d/network stop (code=exited, status=0/SUCCESS)

Process: 16874 ExecStart=/etc/rc.d/init.d/network start (code=exited, status=0/SUCCESS)

[hadoop@node1 ~]$ sudo mount d1:/impdata /mnt/nfs/bigdata

[hadoop@node1 ~]$

exportfs -a

[hadoop@node2 local]$ sudo unlink hadoop

[sudo] password for hadoop:

[hadoop@node2 local]$ sudo ln -s hadoop-2.7.2 hadoop

[hadoop@node2 local]$ sdo chown -R hadoop:hadoop hadoop

bash: sdo: command not found...

[hadoop@node2 local]$ sudo chown -R hadoop:hadoop hadoop

Error:: NameNode: fs.defaultFS is file:///

Check core-site.xml

**find** **/** -name "apt" -ls

read meta

<https://acadgild.com/blog/view-fsimage-edit-logs-files-hadoop>

Hadoop 2 nfs

<configuration>

<property>

<name>dfs.nameservices</name>

<value>financeCluster</value>

</property>

<property>

<name>dfs.replication</name>

<value>3</value>

</property>

<property>

<name>dfs.namenode.name.dir</name>

<value>file:/HA/name</value>

</property>

<property>

<name>dfs.datanode.data.dir</name>

<value>file:/HA/data</value>

</property>

<property>

<name>dfs.ha.namenodes.financeCluster</name>

<value>nn1,nn2</value>

</property>

<property>

<name>dfs.namenode.rpc-address.financeCluster.nn1</name>

<value>node1:8020</value>

</property>

<property>

<name>dfs.namenode.rpc-address.financeCluster.nn2</name>

<value>node2:8020</value>

</property>

<property>

<name>dfs.namenode.http-address.financeCluster.nn1</name>

<value>node1:50070</value>

</property>

<property>

<name>dfs.namenode.http-address.financeCluster.nn2</name>

<value>node2:8020</value>

</property>

<property>

<name>dfs.namenode.shared.edits.dir</name>

<value>file:///mnt/nfs/HA</value>

</property>

<property>

<name>dfs.client.failover.proxy.provider.financeCluster</name>

<value>org.apache.hadoop.hdfs.server.namenode.ha.ConfiguredFailoverProxyProvider</value>

</property>

<property>

<name>dfs.ha.fencing.methods</name>

<value>sshfence</value>

</property>

<property>

<name>dfs.ha.fencing..ssh.private-key-files</name>

<value>/home/hadoop/.ssh/id\_rsa</value>

</property>

<property>

<name>dfs.ha.fencing.methods</name>

<value>sshfence

shell(bin/true)</value>

</property>

failed on connection exception: java.net.ConnectException: Connection refused

d1:/nfsHA /mnt/nfs/HA rw,hard,intr 0 0

d1:/impdata /mnt/nfs/bigdata rw,har,intr 0 0

~

sudo mount d1:/nfsHA /mnt/nfs/HA

if maintenance mode ::

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When you see CTRL+D enter root password. Then enter mount -a to see where the error is (which line).

Then enter vi /etc/fstab and correct the missing or remove it then save and finally reboot.

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rpm -qp --scripts foo.rpm

C:\Program Files (x86)\VMware\VMware Virtual Disk Development Kit\bin>vmware-vdiskmanager -R "C:\Users\lenovo\VirtualBox VMs\node3\node3.vmdk"

Zookeeper issue

Updated zkEnv.sj

Update ZOOCFGDIR to /usr/local/zookeeper

Also check in zookeeper.out for error

Update JAVA

Error encountered requiring NN shutdown. Shutting down immediately.

org.apache.hadoop.hdfs.server.namenode.EditLogInputException: Error replaying edit log at offset 0. Expected transaction ID was 460

it seem the server stopped or the namenode has corrupted

take edits and fsimage from other namenode and place it on the namenode location

nodemanager and resourcemanager ports opening as job hangs with no node active

sudo firewall-cmd --zone=public --add-port=8032/tcp --permanent

sudo firewall-cmd --zone=public --add-port=8030/tcp --permanent

sudo firewall-cmd --zone=public --add-port=8090/tcp --permanent

sudo firewall-cmd --zone=public --add-port=8031/tcp --permanent

sudo firewall-cmd --zone=public --add-port=8088/tcp --permanent

sudo firewall-cmd --zone=public --add-port=8033/tcp --permanent

sudo firewall-cmd --zone=public --add-port=8040/tcp --permanent

sudo firewall-cmd --zone=public --add-port=8042/tcp --permanent

sudo firewall-cmd --zone=public --add-port=10200/tcp --permanent

sudo firewall-cmd --zone=public --add-port=8188/tcp --permanent

sudo firewall-cmd --zone=public --add-port=8190/tcp –permanent

sudo firewall-cmd --zone=public --add-port= ﻿35754/tcp --permanent

if no nodes on yarn

check nodes with this command :: bin/yarn node -list

<configuration>

<!-- Site specific YARN configuration properties -->

<property>

<name>yarn.nodemanager.aux-services</name>

<value>mapreduce\_shuffle</value>

</property>

<property>

<name>yarn.resourcemanager.address</name>

<value>c1:8032</value>

</property>

<property>

<name>yarn.resourcemanager.scheduler.address</name>

<value>c1:8030</value>

</property>

<property>

<name>yarn.resourcemanager.resource-tracker.address</name>

<value>c1:8031</value>

</property>

<property>

<name>yarn.resourcemanager.admin.address</name>

<value>c1:8033</value>

</property>

<property>

<name>yarn.resourcemanager.webapp.adress</name>

<value>c1:8088</value>

</property>

<property>

<name>yarn.nodemanager.resource.cpu-vcores</name>

<value>1</value>

</property>

<property>

<name>yarn.nodemanager.resource.memory-mb</name>

<value>2048</value>

</property>

<property>

<name>yarn.scheduler.minimum-allocation-mb</name>

<value>500</value>

</property>

<property>

<name>yarn.nodemanager.aux-services.mapreduce.shuffle.class</name>

<value>org.apache.hadoop.mapred.ShuffleHandler</value>

</property>

<property>

<name>yarn.nodemanager.hostname</name>

<value>c2</value>

</property>

<property>

<name>yarn.nodemanager.address</name>

<value>c2:35754</value>

</property>

<property>

<name>yarn.web-proxy.address</name>

<value>c1:34666</value>

</property>

<property>

<name>yarn.app.mapreduce.am.job.client.port-range</name>

<value>50000-50050</value>

</property>

</configuration>===

firewall-cmd --zone=public --add-port=50000-50050/tcp --permanent