Lab – 7

CE004 20CEUOD004

```
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~/Desktop$ ping 192.168.32.21
PING 192.168.32.21 (192.168.32.21) 56(84) bytes of data.
64 bytes from 192.168.32.21: icmp_seq=1 ttl=63 time=0.628 ms
64 bytes from 192.168.32.21: icmp seq=2 ttl=63 time=0.664 ms
64 bytes from 192.168.32.21: icmp_seq=3 ttl=63 time=0.624 ms
64 bytes from 192.168.32.21: icmp seq=4 ttl=63 time=0.612 ms
64 bytes from 192.168.32.21: icmp_seq=5 ttl=63 time=0.608 ms
64 bytes from 192.168.32.21: icmp seq=6 ttl=63 time=0.855 ms
64 bytes from 192.168.32.21: icmp_seq=7 ttl=63 time=0.849 ms
64 bytes from 192.168.32.21: icmp_seq=8 ttl=63 time=1.63 ms
64 bytes from 192.168.32.21: icmp_seq=9 ttl=63 time=0.576 ms
64 bytes from 192.168.32.21: icmp seq=10 ttl=63 time=0.633 ms
64 bytes from 192.168.32.21: icmp_seq=11 ttl=63 time=0.644 ms
64 bytes from 192.168.32.21: icmp seq=12 ttl=63 time=0.515 ms
64 bytes from 192.168.32.21: icmp seq=13 ttl=63 time=0.974 ms
64 bytes from 192.168.32.21: icmp_seq=14 ttl=63 time=0.892 ms
    166 packets transmitted, 166 received, 0% packet loss, time 167767ms
rtt min/avg/max/mdev = 0.339/0.814/1.633/0.180 ms
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~/Desktop$ hostname
celab2-ThinkCentre-neo-50s-Gen-3
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~/Desktop$
 hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~/Desktop$ ssh 192.168.32.21
 hadoop@192.168.32.21's password:
 Last login: Mon Sep 12 15:39:02 2022
 [hadoop@hadoop-clone-21 ~]$ hostname
 hadoop-clone-21
 [hadoop@hadoop-clone-21 ~]$
```

```
oop@celab2-ThinkCentre-neo-50s-Gen-3:~/Desktop$ ssh 192.168.32.21
   64 bytes from 192.168.32.21: icmp_seq=157 ttl=63 time=0.965 ms
64 bytes from 192.168.32.21: icmp_seq=157 ttl=63 time=0.965 ms
64 bytes from 192.168.32.21: icmp_seq=158 ttl=63 time=0.964 ms
64 bytes from 192.168.32.21: icmp_seq=159 ttl=63 time=0.964 ms
64 bytes from 192.168.32.21: icmp_seq=160 ttl=63 time=1.13 ms
64 bytes from 192.168.32.21: icmp_seq=161 ttl=63 time=1.01 ms
64 bytes from 192.168.32.21: icmp_seq=162 ttl=63 time=1.12 ms
64 bytes from 192.168.32.21: icmp_seq=163 ttl=63 time=1.12 ms
64 bytes from 192.168.32.21: icmp_seq=164 ttl=63 time=0.299 ms
64 bytes from 192.168.32.21: icmp_seq=165 ttl=63 time=0.773 ms
64 bytes from 192.168.32.21: icmp_seq=166 ttl=63 time=0.773 ms
64 bytes from 192.168.32.21: icmp_seq=166 ttl=63 time=0.773 ms
                                                                                                                                               hadoop@192.168.32.21's password:
Last login: Mon Sep 12 15:39:02 2022
                                                                                                                                                [hadoop@hadoop-clone-21 ~]$ hostname
                                                                                                                                                hadoop-clone-21
                                                                                                                                               [hadoopehadoop-clone-21 ~]$ ifconfig
eno1: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
inet 192.168.32.21 netmask 255.255.255.0 broadcast 192.168.3
                                                                                                                                               2.255
                                                                                                                                                                inet6 fe80::8464:1497:c647:392f prefixlen 64 scopeid 0x20<li
                                                                                                                                                nk>
 --- 192.168.32.21 ping statistics --- 166 packets transmitted, 166 received, 0% packet loss, time 167767ms rtt min/avg/max/mdev = 0.339/0.814/1.633/0.180 ms
                                                                                                                                                                ether 00:d8:61:60:73:65 txqueuelen 1000 (Ethernet)
                                                                                                                                                               ether 00:08:01:00:73:05 txqueuelen 1000 (Etherhet)
RX packets 26126 bytes 23900164 (22.7 MiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 16689 bytes 2880868 (2.7 MiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
device interrupt 17 memory 0xb1100000-b1120000
                                                            -50s-Gen-3:-/Deskto
                                                                                                 $ hostname
                          2-ThinkCentre-r
  celab2-ThinkCentre-neo-50s-Gen-3
 hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~/Desktop$ ifconfig device interrupt 17 memoral device interrupt 17 memoral net 192.168.26.21 netmask 255.255.255.0 broadcast 192.168.2 lo: flags=73
                                                                                                                                                                                                                    mtu 65536
                                                                                                                                                               gs=73<UP,LOOPBACK,RUNNING- mtu 65536
inet 127.0.0.1 netmask 255.0.0.0
inet6::1 prefixlen 128 scopeid 0x10<host>
loop txqueuelen 1000 (Local Loopback)
RX packets 66 bytes 3300 (3.2 KiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 66 bytes 3300 (3.2 KiB)
                 inet6 fe80::7a0:ca99:ddc5:35e prefixlen 64 scopeid 0x20<link
                ether f4:6b:8c:8c:ed:45 txqueuelen 1000 (Ethernet)
RX packets 16838 bytes 10498834 (10.4 MB)
RX errors 0 dropped 62 overruns 0 frame 0
TX packets 10831 bytes 2459986 (2.4 MB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
                                                                                                                                                                TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
                                                                                                                                              virbr0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
inet 192.168.122.1 netmask 255.255.255.0 broadcast 192.168.1
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
inet 127.0.0.1 netmask 255.0.0.0
inet6 ::1 prefixlen 128 scopeid 0x10<not>
loop txqueuelen 1000 (Local Loopback)
RX packets 2428 bytes 246440 (246.4 KB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 2428 bytes 246440 (246.4 KB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
                                                                                                                                               22.255
                                                                                                                                                               ether 52:54:00:2c:f2:f7 txqueuelen 1000 (Ethernet)
RX packets 0 bytes 0 (0.0 B)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 0 bytes 0 (0.0 B)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
                                                                                                                                              [hadoop@hadoop-clone-21 ~]$
                                                                                                                                                 [hadoop@hadoop-clone-21 ~]$ cat /etc/hosts
127.0.0.1 localhost localhost hadoop-clone
192.168.1.102 egov.ddit.ac.in
192.168.29.100 ftp.ddit.ac.in
    adoop@celab2-ThinkCentre-neo-50s-Gen-3:~/Desktop$ cat /etc/hosts
 127.0.0.1
127.0.1.1
#127.0.0.1
127.0.0.1 localhost
127.0.1.1 celab2-ThinkCentre-neo-50s-Gen-3
#127.0.0.1 celab2-ThinkCentre-neo-50s-Gen-3
# The following lines are desirable for IPv6 capable hosts
::1 ip6-localhost ip6-loopback
fe00::0 ip6-mcastprefix
ff00::1 ip6-allnodes
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
                                                                                                                                              192.168.32.11 hadoop-clone-11
192.168.32.12 hadoop-clone-12
192.168.32.13 hadoop-clone-13
192.168.32.14 hadoop-clone-14
                                                                                                                                                 192.168.32.15 hadoop-clone-15
      [hadoop@hadoop-clone-21 ~]$ systemctl status firewalld
      🌎 firewalld.service - firewalld - dynamic firewall daemon
                  Loaded: loaded (/usr/lib/systemd/system/firewalld.service; enabled; ve
      ndor preset: enabled)
                  Active: active (running) since Tue 2022-09-13 08:34:04 IST; 39min ago
                         Docs: man:firewalld(1)
          Main PID: 886 (firewalld)
                      Tasks: 2
```

└─886 /usr/bin/python2 -Es /usr/sbin/firewalld --nofork --n...

CGroup: /system.slice/firewalld.service

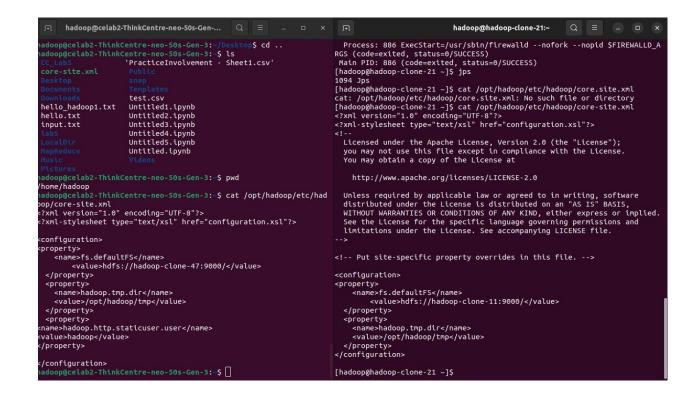
[hadoop@hadoop-clone-21 ~]\$

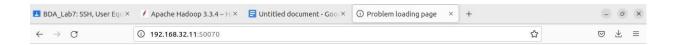
```
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:-
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$ ls
 CC Lab5
                     'PracticeInvolvement - Sheet1.csv'
 core-site.xml
                       Public
 Desktop
                       snap
 Documents
                       remplates
                      test.csv
hello hadoop1.txt
                      Untitled1.ipvnb
hello.txt
                      Untitled2.ipynb
                      Untitled3.ipvnb
input.txt
                      Untitled4.ipynb
 .ab5
 _ocalDir
                      Untitled5.ipvnb
 MapReduce
                      Untitled.ipvnb
 Music
                      Videos
 ictures
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:-$ pwd
/home/hadoop
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~S
                     plg 1500125128936.log Untitled.lpynb
[hadoop@hadoop-clone-21 ~]$ systemctl status firewalld
firewalld.service - firewalld - dynamic firewall daemon
   Loaded: loaded (/usr/lib/systemd/system/firewalld.service; enabled; ve
ndor preset: enabled)
   Active: active (running) since Tue 2022-09-13 08:34:04 IST; 39min ago
     Docs: man:firewalld(1)
 Main PID: 886 (firewalld)
    Tasks: 2
   CGroup: /system.slice/firewalld.service
           └─886 /usr/bin/python2 -Es /usr/sbin/firewalld --nofork --n...
[hadoop@hadoop-clone-21 ~]$ systemctl status firewalld
● firewalld.service - firewalld - dynamic firewall daemon
   Loaded: loaded (/usr/lib/systemd/system/firewalld.service; enabled; ve
ndor preset: enabled)
   Active: inactive (dead) since Tue 2022-09-13 09:15:17 IST; 1min 37s ag
     Docs: man:firewalld(1)
  Process: 886 ExecStart=/usr/sbin/firewalld --nofork --nopid $FIREWALLD
ARGS (code=exited, status=0/SUCCESS)
 Main PID: 886 (code=exited,_status=0/SUCCESS)
[hadoop@hadoop-clone-21 ~]$
```

```
[hadoop@hadoop-clone-21 ~]$ cat /opt/hadoop/etc/hadoop/slaves
hadoop-clone-11
hadoop-clone-12
hadoop-clone-13
hadoop-clone-14
hadoop-clone-15
hadoop-clone-16
hadoop-clone-17
hadoop-clone-18
hadoop-clone-19
hadoop-clone-20
hadoop-clone-21
hadoop-clone-22
hadoop-clone-23
hadoop-clone-24
hadoop-clone-25
hadoop-clone-26
hadoop-clone-27
hadoop-clone-28
hadoop-clone-29
hadoop-clone-30
hadoop-clone-31
hadoop-clone-32
```

```
relab2-ThinkCentre-neo-50s-Gen-3:~$ cat /opt/hadoop/etc/had </configuration>
oop/hdfs-site.xml
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/xsl" href="configuration.xsl"?>
                                                                                                              [hadoop@hadoop-clone-21 ~]$ cat /opt/hadoop/etc/hadoop/hdfs-site.xml
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/xsl" href="configuration.xsl"?>
<configuration>
                                                                                                                .
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
   http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License. See accompanying LICENSE file.
   </property>
                                                                                                              <!-- Put site-specific property overrides in this file. -->
  <name>dfs.namenode.secondary.http-address
                                                                                                             <value>hadoop-clone-47:50090</value>

</
```



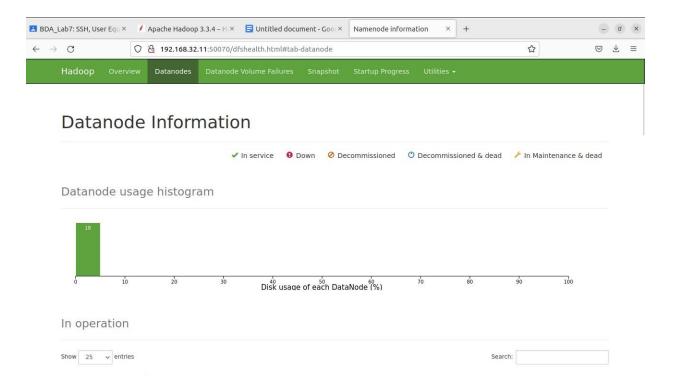


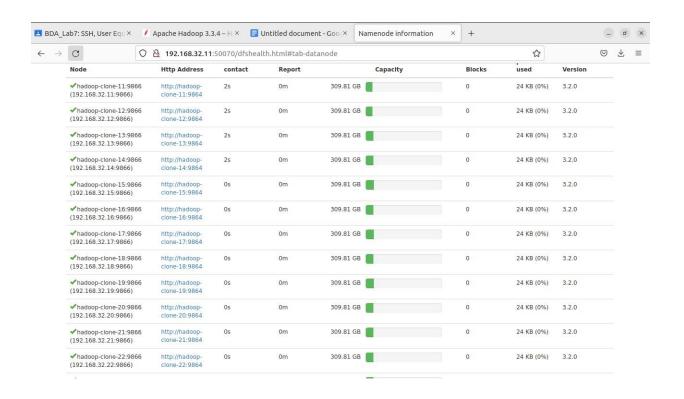
Unable to connect

Firefox can't establish a connection to the server at 192.168.32.11:50070.

- The site could be temporarily unavailable or too busy. Try again in a few moments.
- If you are unable to load any pages, check your computer's network connection.
- If your computer or network is protected by a firewall or proxy, make sure that Firefox is permitted to access the Web.

Try Again





```
<?xml-stylesheet type="text/xsl" href="configuration.xsl"?>
  Licensed under the Apache License, Version 2.0 (the "License");
 you may not use this file except in compliance with the License.
 You may obtain a copy of the License at
   http://www.apache.org/licenses/LICENSE-2.0
 Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
 limitations under the License. See accompanying LICENSE file.
<!-- Put site-specific property overrides in this file. -->
<configuration>
operty>
    <name>fs.defaultFS</name>
        <value>hdfs://hadoop-clone-18:9000/</value>
  </property>
  property>
    <name>hadoop.tmp.dir</name>
    <value>/opt/hadoop/tmp</value>
  </property>
</configuration>
                                                                      All
  INSERT --
                                                        22,31-38
```

```
Addoop@hadoop-clone-21:~

<
```

```
hadoop@hadoop-clone-21:~
     http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License. See accompanying LICENSE file.
^{\circ}_{	extsf{t}}	extsf{<}!-- Put site-specific property overrides in this file. -->
g
<configuration>
 cproperty>
     <name>fs.defaultFS</name>
         <value>hdfs://hadoop-clone-18:9000/</value>
   </property>
   cproperty>
     <name>hadoop.tmp.dir</name>
     <value>/opt/hadoop/tmp</value>
   </property>
 </configuration>
```

```
<?xml-stylesheet type="text/xsl" href="configuration.xsl"?>
 Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
 You may obtain a copy of the License at
   http://www.apache.org/licenses/LICENSE-2.0
 Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License. See accompanying LICENSE file.
<!-- Put site-specific property overrides in this file. -->
<configuration>
operty>
    <name>fs.defaultFS</name>
        <value>hdfs://hadoop-clone-18:9000/</value>
  </property>
  operty>
    <name>hadoop.tmp.dir</name>
    <value>/opt/hadoop/tmp</value>
  </property>
</configuration>
                                                                      All
  INSERT --
                                                        22,31-38
```