COMPUTER NETWORKS Lab Assignment-1

REDDIPALLI SAI CHARISH CS22B1095

1.if config:

```
charish@charish-Nitro-AN515-57:~$ ifconfig
enp2s0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
       ether 08:8f:c3:70:5c:14 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
lo: flags=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 5884 bytes 479396 (479.3 KB)
       RX errors 0 dropped 0 overruns 0 frame 0
       TX packets 5884 bytes 479396 (479.3 KB)
       TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
wlp0s20f3: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
       ether 7c:b5:66:3b:1b:40 txqueuelen 1000 (Ethernet)
       RX packets 300322 bytes 411255590 (411.2 MB)
       RX errors 0 dropped 0 overruns 0 frame 0
       TX packets 57736 bytes 6569555 (6.5 MB)
       TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
charish@charish-Nitro-AN515-57:~$ ifconfig lo
lo: flags=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 5916 bytes 481684 (481.6 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 5916 bytes 481684 (481.6 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

2.Ping:

```
charish@charish-Nitro-AN515-57:-$ ping google.com
PING google.com(2404:6800:4007:828::200e) 56 data bytes
64 bytes from maa03s43-in-x0e.1e100.net (2404:6800:4007:828::200e): icmp_seq=10 ttl=59 time=155 ms
64 bytes from maa03s43-in-x0e.1e100.net (2404:6800:4007:828::200e): icmp_seq=11 ttl=59 time=38.4 ms
64 bytes from maa03s43-in-x0e.1e100.net (2404:6800:4007:828::200e): icmp_seq=12 ttl=59 time=39.2 ms
64 bytes from maa03s43-in-x0e.1e100.net (2404:6800:4007:828::200e): icmp_seq=13 ttl=59 time=38.9 ms
64 bytes from maa03s43-in-x0e.1e100.net (2404:6800:4007:828::200e): icmp_seq=14 ttl=59 time=94.3 ms
64 bytes from maa03s43-in-x0e.1e100.net (2404:6800:4007:828::200e): icmp_seq=15 ttl=59 time=117 ms
64 bytes from maa03s43-in-x0e.1e100.net (2404:6800:4007:828::200e): icmp_seq=16 ttl=59 time=37.7 ms
64 bytes from maa03s43-in-x0e.1e100.net (2404:6800:4007:828::200e): icmp_seq=16 ttl=59 time=37.7 ms
65 bytes from maa03s43-in-x0e.1e100.net (2404:6800:4007:828::200e): icmp_seq=16 ttl=59 time=37.7 ms
66 bytes from maa03s43-in-x0e.1e100.net (2404:6800:4007:828::200e): icmp_seq=16 ttl=59 time=37.7 ms
67 c---- google.com ping statistics ---
16 packets transmitted, 7 received, 56.25% packet loss, time 17408ms
67 rtt min/avg/max/mdev = 37.728/74.226/154.560/44.312 ms
```

3.Traceroute:

```
charish@charish-Nitro-AN515-57:~$ traceroute google.com
traceroute to google.com (142.250.195.14), 30 hops max, 60 byte packets
 1 reliance.reliance (192.168.29.1) 4.908 ms 4.864 ms 4.846 ms
 2 10.212.160.1 (10.212.160.1) 5.072 ms 5.055 ms 5.256 ms
3 172.31.2.118 (172.31.2.118) 14.949 ms 60.405 ms 60.389 ms
4 192.168.171.118 (192.168.171.118) 60.365 ms 192.168.153.232 (192.168.153.232) 60.381 ms 192.168
.153.236 (192.168.153.236) 60.338 ms
 5 172.17.185.180 (172.17.185.180) 60.319 ms 60.302 ms 60.286 ms 6 172.17.185.163 (172.17.185.163) 60.267 ms 172.17.185.162 (172.17.185.162) 52.271 ms 52.222 ms
 7 192.168.171.108 (192.168.171.108) 52.193 ms 192.168.90.144 (192.168.90.144) 63.495 ms 192.168.1
71.104 (192.168.171.104) 63.195 ms
 8
 9
10
11
12
13 72.14.217.252 (72.14.217.252) 144.759 ms 192.178.110.106 (192.178.110.106) 46.286 ms 192.178.11
0.108 (192.178.110.108) 33.224 ms
14 64.233.174.1 (64.233.174.1) 125.549 ms 142.251.55.90 (142.251.55.90) 32.655 ms 209.85.142.246 (
209.85.142.246) 36.032 ms
15 142.251.246.206 (142.251.246.206) 134.433 ms 172.253.71.132 (172.253.71.132) 51.669 ms 216.239.48.65 (216.239.48.65) 153.923 ms
16 172.253.70.166 (172.253.70.166) 34.216 ms 142.251.52.211 (142.251.52.211) 168.907 ms 172.253.71
.132 (172.253.71.132) 30.463 ms
17 142.251.246.204 (142.251.246.204) 59.979 ms del12s09-in-f14.1e100.net (142.250.195.14) 174.253
ms 159.730 ms
```

4.netstat:

```
charish@charish-Nitro-AN515-57:~$ netstat
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address
                                              Foreign Address
                                                                       State
          78
tcp
                  0 charish-Nitro-AN5:48060 ec2-54-186-58-232:https CLOSE WAIT
                  0 charish-Nitro-AN5:48052 ec2-54-186-58-232:https ESTABLISHED
tcp
           0
           0
udp
                  0 localhost:58823
                                              localhost:58823
                                                                       ESTABLISHED
udp
           0
                  0 charish-Nitro-AN:bootpc reliance.relianc:bootps ESTABLISHED
                  O charish-Nitro-AN5:36304 maa05s26-in-x0a.1:https ESTABLISHED
идрб
           0
Active UNIX domain sockets (w/o servers)
Proto RefCnt Flags
                          Type
                                      State
                                                    I-Node
                                                              Path
                          STREAM
                                     CONNECTED
                                                    84537
unix
     3
             unix
      3
                          STREAM
                                      CONNECTED
                                                    32611
unix
                          STREAM
                                                    94469
      3
                                     CONNECTED
unix
      3
                          STREAM
                                      CONNECTED
                                                    94466
unix
      3
                          STREAM
                                      CONNECTED
                                                    27183
      2
                          DGRAM
                                      CONNECTED
                                                    23030
unix
unix
      3
                          STREAM
                                      CONNECTED
                                                    25922
                                                              /run/dbus/system bus socket
unix
                                                              /run/systemd/journal/stdout
                                                    22365
      3
                          STREAM
                                     CONNECTED
                                                    21394
                                                              /run/user/1000/bus
unix
      3
                          STREAM
                                     CONNECTED
unix
      3
                          STREAM
                                      CONNECTED
                                                    27084
                                                              /run/systemd/journal/stdout
unix
      3
                          STREAM
                                     CONNECTED
                                                    36516
unix
      3
                          STREAM
                                      CONNECTED
                                                    85740
unix
                                     CONNECTED
                                                    35642
      3
                          STREAM
unix
                                      CONNECTED
      3
                          STREAM
                                                    23760
unix
      3
                          STREAM
                                      CONNECTED
                                                    71567
unix
      3
                          STREAM
                                      CONNECTED
                                                    71566
unix
      3
                          STREAM
                                      CONNECTED
                                                    21402
                                                              /run/user/1000/bus
                                                    29278
unix
      3
                          STREAM
                                     CONNECTED
unix
                                      CONNECTED
                                                    30956
      3
                          STREAM
unix
      3
                          STREAM
                                      CONNECTED
                                                    57690
                                                              /run/systemd/journal/stdout
unix
      3
                          STREAM
                                      CONNECTED
                                                    15325
                                                              /run/systemd/journal/stdout
unix
      3
                          STREAM
                                      CONNECTED
                                                    26061
unix
      3
                          STREAM
                                      CONNECTED
                                                    25958
unix
                          STREAM
                                      CONNECTED
                                                    34396
                                                              /run/dbus/system_bus_socket
      3
                          STREAM
                                                    24157
unix
                                      CONNECTED
unix
      3
                          STREAM
                                      CONNECTED
                                                    21298
                                                              /run/systemd/journal/stdout
                          STREAM
univ
                                      CONNECTED
                                                    22488
```

5. nslookup

```
charish@charish-Nitro-AN515-57:~$ nslookup google.com
Server: 127.0.0.53
Address: 127.0.0.53#53

Non-authoritative answer:
Name: google.com
Address: 142.250.182.78
Name: google.com
Address: 2404:6800:4002:813::200e
```

6.arp:

```
charish@charish-Nitro-AN515-57:~$ arp -a
reliance.reliance (192.168.29.1) at b4:a7:c6:d2:3c:da [ether] on wlp0s20f3
```

ip:

```
-c[olor]}
charish@charish-Nitro-AN515-57:~$ ip addr show
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
      valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
  valid_lft forever preferred_lft forever
2: enp2s0: <NO-CARRIER, BROADCAST, MULTICAST, UP> mtu 1500 qdisc fq_codel state DOWN group default qlen
1000
    link/ether 08:8f:c3:70:5c:14 brd ff:ff:ff:ff:ff
3: wlp0s20f3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default qlen 10
00
    link/ether 7c:b5:66:3b:1b:40 brd ff:ff:ff:ff:ff
    inet 192.168.29.159/24 brd 192.168.29.255 scope global dynamic noprefixroute wlp0s20f3
       valid_lft 84645sec preferred_lft 84645sec
    inet6 2405:201:c039:f03c:2c48:ec64:54ca:39f1/64 scope global temporary dynamic
    valid_lft 3594sec preferred_lft 3594sec inet6 2405:201:c039:f03c:6ef7:689c:5ad4:af64/64 scope global dynamic mngtmpaddr noprefixroute
      valid_lft 3594sec preferred_lft 3594sec
    inet6 fe80::6c43:40db:4906:b2c9/64 scope link noprefixroute
       valid_lft forever preferred_lft forever
```

hostname:

```
charish@charish-Nitro-AN515-57:~$ hostname
charish-Nitro-AN515-57
```

ftp:

```
charish@charish-Nitro-AN515-57:~$ ftp localhost
ftp: Can't connect to `127.0.0.1:21': Connection refused
ftp: Can't connect to `localhost:ftp'
ftp>
```

scp :

```
charish@charish-Nitro-AN515-57:~/Documents$ scp ~/Documents/CS22B1095_LAB1.pdf localhost:
ssh: connect to host localhost port 22: Connection refused
lost connection
```

who is:

```
charish@charish-Nitro-AN515-57:~$ whois -h whois.verisign-grs.com google.com
   Domain Name: GOOGLE.COM
   Registry Domain ID: 2138514_DOMAIN_COM-VRSN
   Registrar WHOIS Server: whois.markmonitor.com
   Registrar URL: http://www.markmonitor.com
   Updated Date: 2019-09-09T15:39:04Z
   Creation Date: 1997-09-15T04:00:00Z
   Registry Expiry Date: 2028-09-14T04:00:00Z
   Registrar: MarkMonitor Inc.
   Registrar IANA ID: 292
   Registrar Abuse Contact Email: abusecomplaints@markmonitor.com
   Registrar Abuse Contact Phone: +1.2086851750
   Domain Status: clientDeleteProhibited https://icann.org/epp#clientDeleteProhibited
```