Indian Institute of Engineering Science and Technology, Shibpur Department of Computer Science and Technology

Computer Network Lab (CS 3272)

Assignment 1: Networking basic commands

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The aim of this assignment is to make you familiar with few network commands and tools. Prepare a report based on your understating and findings.

Question 1

Read the man pages of ifconfig, ping, traceroute, arp, dig, nslookup, and netstatand write their utilities in brief.

ifconfig

- used to configure network interface controller (NIC)
- if no arguments are given, if config displays active network interfaces.

ping <IP>

- send ICMP ECHO_REQUEST to <IP>
- generally used to check if we can access a URI/IP address or not
- -s flag is used to define the (amount + 8) bytes that will be sent
 - 8 extra bytes also added to the number as header
- -c flag can be used to define how much request to send to the IP, absence of this flag will make the command continuously send request to the IP until we forcefully stop it via Ctrl + C.

traceroute <IP>

- print route packets trace to network host
- sends multiple packets to IP incrementing TTL and listens for ICMP "Time Exceeded" reply from the network devices in the path between the the sender and the destination server.

arp

- manipulate the system ARP (Address Resolution Protocol) cache.
- if run without any specifier, it will print the current content of the table.

dig <URL>

- Domain Information Grouper
- DNS lookup utility
- performs DNS lookup of the <URL> using the DNS IP mentioned in /etc/resolv.conf and returns the IP

nslookup

- query Internet name server interactively
- same work as dig but runs interactively
- we can do nslookup <IP> to reverse domain search, i.e find URL from the IP.

netstat

- Print network connections, routing tables, interface statistics, masquerade connections, and multicast memberships
- running without any flags displays all active internet connections and connected sockets

Question 2

Find the **IP** and **hardware addresses** of your machine using ifconfig command.

```
-(dipmay biswas&LAPTOP-J043FJ8M)-[~]
eth0: flags=4163<UP, BROADCAST, RUNNING, MULTICAST> mtu 1500
       inet 172.23.237.68 netmask 255.255.240.0 broadcast 172.23.239.255
       inet6 fe80::215:5dff:fe9c:b36b prefixlen 64 scopeid 0x20<link>
       ether 00:15:5d:9c:b3: txqueuelen 1000 (Ethernet)
       RX packets 1782 bytes 1243628 (1.1 MiB)
       RX errors 0 dropped 0 overruns 0 frame 0
       TX packets 1199 bytes 182023 (177.7 KiB)
       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 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
```

IP addresses -> 172.23.237.68

hardware addresses -> 00:15:5d:9c:b3:xx *hiding my hardware addresse in this snapshot for security concerns.

Use "ping <AnyURL>" command and find out

- i. the average RTT (round trip time).
- ii. the %packet loss.
- iii. size of packet that is sent to <AnyURL> server.
- iv. size of packet that is received by your machine.

```
____(dipmay_biswas & LAPTOP-JO43FJ8M) - [~]
    $\sigma$ ping www.facebook.com
PING star-mini.c10r.facebook.com (31.13.79.35) 56(84) bytes of data.
64 bytes from edge-star-mini-shv-02-bom1.facebook.com (31.13.79.35): icmp_seq=1 ttl=55 time=102 ms
64 bytes from edge-star-mini-shv-02-bom1.facebook.com (31.13.79.35): icmp_seq=2 ttl=55 time=46.2 ms
64 bytes from edge-star-mini-shv-02-bom1.facebook.com (31.13.79.35): icmp_seq=3 ttl=55 time=42.4 ms
64 bytes from edge-star-mini-shv-02-bom1.facebook.com (31.13.79.35): icmp_seq=4 ttl=55 time=53.0 ms
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64 bytes from edge-star-mini-shv-02-bom1.facebook.com (31.13.79.35): icmp_seq=6 ttl=55 time=366 ms
64 bytes from edge-star-mini-shv-02-bom1.facebook.com (31.13.79.35): icmp_seq=7 ttl=55 time=87.1 ms
64 bytes from edge-star-mini-shv-02-bom1.facebook.com (31.13.79.35): icmp_seq=7 ttl=55 time=87.1 ms
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62 bytes from edge-star-mini-shv-02-bom1.facebook.com (31.13.79.35): icmp_seq=7 ttl=55 time=87.1 ms
63 bytes from edge-star-mini-shv-02-bom1.facebook.com (31.13.79.35): icmp_seq=7 ttl=55 time=87.1 ms
64 bytes from edge-star-mini-shv-02-bom1.facebook.com (31.13.79.35): icmp_seq=8 ttl=55 time=102 ms
6
```

Hence:

- i. the average RTT (round trip time) -> 107.571 ms.
- ii. the %packet loss -> 0%.
- iii. size of packet that is sent to www.facebook.com server -> 56 + 8 = **64 bytes**.
- iv. size of packet that is received by your machine -> 64 bytes.

Use "dig <AnyURL>" command and find out

- i. theIP address of <AnyURL>.
- ii. theIP addresses of local DNS servers of IIEST.

```
-(dipmay biswas❸LAPTOP-JO43FJ8M)-[~]
└$ dig www.iiests.ac.in
; <<>> DiG 9.19.17-2~kali1-Kali <<>> www.iiests.ac.in
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 40294
;; flags: qr rd ad; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 0
;; WARNING: recursion requested but not available
;; QUESTION SECTION:
;www.iiests.ac.in.
                                IN
;; ANSWER SECTION:
                                               14.139.223.183
www.iiests.ac.in.
                                                14.139.223.168
amit.iiests.ac.in.
                                                14.139.223.163
manas.iiests.ac.in.
                                IN
                                                14.139.223.162
;; Query time: 0 msec
;; SERVER: 172.23.224.1#53(172.23.224.1) (UDP)
;; WHEN: Wed Jan 03 11:56:00 IST 2024
;; MSG SIZE rcvd: 149
```

Hence:

i. ip address of

www.iiests.ac.in -> 14.139.223.183 www.iiests.ac.in -> 14.139.223.168 amit.iiests.ac.in -> 14.139.223.163 manas.iiests.ac.in. -> 14.139.223.162

ii. ip address of the DNS server(s) -> 172.23.224.1#53

Use "traceroute <AnyURL>" and find out

- i. number of hops in between your machine and <AnyURL> server.
- ii. the IP address of your network gateway of your subnet.

Hence:

- i. No. of hops -> **11**
- ii. IP address of the network gateway of my subnet: the first traceroute ip address -> 172.23.224.1

Question 6

Use "arp" command to find out the MAC address of the device that is performing as your network gateway.

```
| Control | Cont
```

Hence MAC address: **00:15:5d:92:3f:54** (MAC address of other hardware on the network, such as your router)

Use **nslookup** command and find out the IP address of <AnyURL>. Use nslookup command and perform **reverse domain lookup**.

```
$ nslookup www.facebook.com
Server: 172.23.224.1
Address: 172.23.224.1#53
Non-authoritative answer:
www.facebook.com
                       canonical name = star-mini.c10r.facebook.com.
Name: star-mini.c10r.facebook.com
Address: 31.13.79.35
Name: i.gtld-servers.net
Address: 192.43.172.30
Name: i.gtld-servers.net
Address: 2001:503:39c1::30
Name: g.gtld-servers.net
Address: 192.42.93.30
Name: g.gtld-servers.net
Address: 2001:503:eea3::30
Name: m.gtld-servers.net
Address: 192.55.83.30
Name: m.gtld-servers.net
Address: 2001:501:b1f9::30
Name: k.gtld-servers.net
Address: 192.52.178.30
Name: k.gtld-servers.net
Address: 2001:503:d2d::30
Name: b.gtld-servers.net
Address: 192.33.14.30
       star-mini.c10r.facebook.com
Address: 2a03:2880:f12f:183:face:b00c:0:25de
Name: i.gtld-servers.net
Address: 192.43.172.30
Name: i.gtld-servers.net
Address: 2001:503:39c1::30
Name: g.gtld-servers.net
Address: 192.42.93.30
Name: g.gtld-servers.net
Address: 2001:503:eea3::30
Name: m.gtld-servers.net
Address: 192.55.83.30
Name: m.gtld-servers.net
Address: 2001:501:b1f9::30
Name: k.gtld-servers.net
Address: 192.52.178.30
Name: k.gtld-servers.net
Address: 2001:503:d2d::30
Name: b.gtld-servers.net
Address: 192.33.14.30
```

hence output IP address of www.facebook.com is 31.13.79.35

Reverse domain lookup

```
_$ nslookup 31.13.79.35
35.79.13.31.in-addr.arpa
                              name = edge-star-mini-shv-02-bom1.facebook.com.
Name: c.in-addr-servers.arpa
Address: 196.216.169.10
Name: c.in-addr-servers.arpa
Address: 2001:43f8:110::10
Name: f.in-addr-servers.arpa
Address: 193.0.9.1
Name: f.in-addr-servers.arpa
Address: 2001:67c:e0::1
Name: e.in-addr-servers.arpa
Address: 203.119.86.101
Name: e.in-addr-servers.arpa
Address: 2001:dd8:6::101
Name: b.in-addr-servers.arpa
Address: 199.253.183.183
Name: b.in-addr-servers.arpa
Address: 2001:500:87::87
Name: a.in-addr-servers.arpa
Address: 199.180.182.53
Name:
      a.in-addr-servers.arpa
Address: 2620:37:e000::53
Name: d.in-addr-servers.arpa
Address: 200.10.60.53
Name: d.in-addr-servers.arpa
Address: 2001:13c7:7010::53
Authoritative answers can be found from:
```

hence the name of the server -> edge-star-mini-shv-02-bom1.facebook.com.

Use **netstat** command and find out the active connections of your machine.

LS netstat			_	- 12 - 12 - 12 - 12				
Active Internet connections (w/o servers) Proto Recv-Q Send-Q Local Address Foreign Address State Active UNIX domain sockets (w/o servers) Proto RefCnt Flags Type State I-Node Path unix 2 [] DGRAM 1864 Var/run/chrony/chronyd.sock unix 3 [] DGRAM 31466 /run/systemd/journal/syslog unix 2 [] DGRAM CONNECTED 31474 /run/systemd/journal/syslog unix 8 [] DGRAM CONNECTED 31476 /run/systemd/journal/syslog unix 7 [] DGRAM CONNECTED 31476 /run/systemd/journal/socket unix 2 [] DGRAM CONNECTED 31476 /run/systemd/journal/socket unix 3 [] STREAM CONNECTED 31476 /run/systemd/journal/socket unix 3 [] STREAM CONNECTED 31476 /run/systemd/journal/socket unix 3 [] STREAM CONNECTED 31504 /run/dbus/system_bus_socket unix 3 [] STREAM CONNECTED 32504 /run/dbus/system_bus_socket unix 3 [] STREAM CONNECTED 31814 unix 2 [] DGRAM CONNECTED 31814 unix 2 [] DGRAM CONNECTED 31814 unix 2 [] DGRAM CONNECTED 36113 unix 3 [] STREAM CONNECTED 30591 unix 3 [] STREAM CONNECTED 38239 /mnt/wslg/PulseAudioRDPSink unix 3 [] STREAM CONNECTED 38239 /mnt/wslg/PulseAudioRDPSink unix 3 [] STREAM CONNECTED 35394 /unix/system_bus_socket unix 3 [] STREAM CONNECTED 36100 /unix/systemd/journal/stdout unix 3 [] STREAM CONNECTED 34228 /run/systemd/journal/stdout unix 3 [] STREAM CONNECTED 34284 /run/systemd/journal/stdout unix 3 [] STREAM CONNECTED 342864 /run/systemd/journal/stdout unix 3 [] STREAM CONNECTED 342864 /run/sy	[──(dipmay_biswas@LAPTOP-JO43FJ8M)-[~]							
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Thank you!