



NEW YORK CITY COLLEGE OF TECHNOLOGY
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LAB REPORT
EMT 2390L – OL76
(OPERATING SYSTEM LABORATORY)

LAB #10

Name: Puja Roy
Date: 5/14/21

Linux

1)

```
pujaroy@DESKTOP-U16K768:~$ ping www.google.com
PING www.google.com (172.217.11.36) 56(84) bytes of data.
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=1 ttl=116 time=16.1 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=2 ttl=116 time=13.9 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=3 ttl=116 time=12.5 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=4 ttl=116 time=13.2 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=5 ttl=116 time=13.8 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=6 ttl=116 time=12.3 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=7 ttl=116 time=14.6 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=8 ttl=116 time=11.7 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=9 ttl=116 time=12.3 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=10 ttl=116 time=11.4 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=11 ttl=116 time=13.2 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=12 ttl=116 time=18.7 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=13 ttl=116 time=12.4 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=14 ttl=116 time=14.8 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=15 ttl=116 time=13.2 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=16 ttl=116 time=12.7 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=17 ttl=116 time=21.5 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=18 ttl=116 time=12.5 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=19 ttl=116 time=15.9 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=20 ttl=116 time=16.9 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=21 ttl=116 time=12.5 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=22 ttl=116 time=13.8 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=23 ttl=116 time=12.2 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=24 ttl=116 time=12.7 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=25 ttl=116 time=12.4 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=26 ttl=116 time=13.5 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=27 ttl=116 time=12.8 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=28 ttl=116 time=22.3 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=29 ttl=116 time=15.1 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=30 ttl=116 time=13.5 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=31 ttl=116 time=13.0 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=32 ttl=116 time=12.6 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=33 ttl=116 time=17.7 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=34 ttl=116 time=14.3 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=35 ttl=116 time=12.4 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=36 ttl=116 time=13.1 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=37 ttl=116 time=11.5 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=38 ttl=116 time=26.5 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=39 ttl=116 time=22.2 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=40 ttl=116 time=19.1 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=41 ttl=116 time=14.0 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=42 ttl=116 time=15.5 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=43 ttl=116 time=13.0 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=44 ttl=116 time=14.4 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=45 ttl=116 time=12.0 ms
64 bytes from lga25s61-in-f4.1e100.net (172.217.11.36): icmp_seq=46 ttl=116 time=13.7 ms
```

```
pujaroy@DESKTOP-U16R768:~$ ping www.microsoft.com
PING e13678.dscb.akamaiedge.net (23.41.190.211) 56(84) bytes of data.
64 bytes from a23-41-190-211.deploy.static.akamaitechnologies.com (23.41.190.211): icmp_seq=1 ttl=56 time=15.0 ms
64 bytes from a23-41-190-211.deploy.static.akamaitechnologies.com (23.41.190.211): icmp_seq=2 ttl=56 time=12.0 ms
64 bytes from a23-41-190-211.deploy.static.akamaitechnologies.com (23.41.190.211): icmp_seq=3 ttl=56 time=12.6 ms
64 bytes from a23-41-190-211.deploy.static.akamaitechnologies.com (23.41.190.211): icmp_seq=4 ttl=56 time=12.7 ms
64 bytes from a23-41-190-211.deploy.static.akamaitechnologies.com (23.41.190.211): icmp_seq=5 ttl=56 time=13.5 ms
64 bytes from a23-41-190-211.deploy.static.akamaitechnologies.com (23.41.190.211): icmp_seq=6 ttl=56 time=11.8 ms
64 bytes from a23-41-190-211.deploy.static.akamaitechnologies.com (23.41.190.211): icmp_seq=7 ttl=56 time=15.3 ms
64 bytes from a23-41-190-211.deploy.static.akamaitechnologies.com (23.41.190.211): icmp_seq=8 ttl=56 time=12.7 ms
64 bytes from a23-41-190-211.deploy.static.akamaitechnologies.com (23.41.190.211): icmp_seq=9 ttl=56 time=13.3 ms
64 bytes from a23-41-190-211.deploy.static.akamaitechnologies.com (23.41.190.211): icmp_seq=10 ttl=56 time=15.1 ms
64 bytes from a23-41-190-211.deploy.static.akamaitechnologies.com (23.41.190.211): icmp_seq=11 ttl=56 time=13.9 ms
```

```
pujaroy@DESKTOP-U16R768:~$ ping www.facebook.com
PING star-mini.c10r.facebook.com (157.240.241.35) 56(84) bytes of data.
64 bytes from edge-star-mini-shv-02-lga3.facebook.com (157.240.241.35): icmp_seq=1 ttl=52 time=22.5 ms
64 bytes from edge-star-mini-shv-02-lga3.facebook.com (157.240.241.35): icmp_seq=2 ttl=52 time=13.5 ms
64 bytes from edge-star-mini-shv-02-lga3.facebook.com (157.240.241.35): icmp_seq=3 ttl=52 time=14.4 ms
64 bytes from edge-star-mini-shv-02-lga3.facebook.com (157.240.241.35): icmp_seq=4 ttl=52 time=13.8 ms
64 bytes from edge-star-mini-shv-02-lga3.facebook.com (157.240.241.35): icmp_seq=5 ttl=52 time=13.5 ms
64 bytes from edge-star-mini-shv-02-lga3.facebook.com (157.240.241.35): icmp_seq=6 ttl=52 time=12.4 ms
64 bytes from edge-star-mini-shv-02-lga3.facebook.com (157.240.241.35): icmp_seq=7 ttl=52 time=14.0 ms
64 bytes from edge-star-mini-shv-02-lga3.facebook.com (157.240.241.35): icmp_seq=8 ttl=52 time=13.9 ms
64 bytes from edge-star-mini-shv-02-lga3.facebook.com (157.240.241.35): icmp_seq=9 ttl=52 time=12.6 ms
64 bytes from edge-star-mini-shv-02-lga3.facebook.com (157.240.241.35): icmp_seq=10 ttl=52 time=12.6 ms
64 bytes from edge-star-mini-shv-02-lga3.facebook.com (157.240.241.35): icmp_seq=11 ttl=52 time=12.3 ms
```

```
pujaroy@DESKTOP-U16R768:~$ ping www.linkedin.com
PING l-0005.l-msedge.net (13.107.42.14) 56(84) bytes of data.
64 bytes from 13.107.42.14 (13.107.42.14): icmp_seq=1 ttl=119 time=14.2 ms
64 bytes from 13.107.42.14 (13.107.42.14): icmp_seq=2 ttl=119 time=13.7 ms
64 bytes from 13.107.42.14 (13.107.42.14): icmp_seq=3 ttl=119 time=14.0 ms
64 bytes from 13.107.42.14 (13.107.42.14): icmp_seq=4 ttl=119 time=12.2 ms
64 bytes from 13.107.42.14 (13.107.42.14): icmp_seq=5 ttl=119 time=23.0 ms
64 bytes from 13.107.42.14 (13.107.42.14): icmp_seq=6 ttl=119 time=11.9 ms
64 bytes from 13.107.42.14 (13.107.42.14): icmp_seq=7 ttl=119 time=11.2 ms
64 bytes from 13.107.42.14 (13.107.42.14): icmp_seq=8 ttl=119 time=13.5 ms
64 bytes from 13.107.42.14 (13.107.42.14): icmp_seq=9 ttl=119 time=13.0 ms
64 bytes from 13.107.42.14 (13.107.42.14): icmp_seq=10 ttl=119 time=13.1 ms
64 bytes from 13.107.42.14 (13.107.42.14): icmp_seq=11 ttl=119 time=12.1 ms
64 bytes from 13.107.42.14 (13.107.42.14): icmp_seq=12 ttl=119 time=14.1 ms
64 bytes from 13.107.42.14 (13.107.42.14): icmp_seq=13 ttl=119 time=12.5 ms
64 bytes from 13.107.42.14 (13.107.42.14): icmp_seq=14 ttl=119 time=13.3 ms
64 bytes from 13.107.42.14 (13.107.42.14): icmp_seq=15 ttl=119 time=18.5 ms
64 bytes from 13.107.42.14 (13.107.42.14): icmp_seq=16 ttl=119 time=12.2 ms
64 bytes from 13.107.42.14 (13.107.42.14): icmp_seq=17 ttl=119 time=14.6 ms
64 bytes from 13.107.42.14 (13.107.42.14): icmp_seq=18 ttl=119 time=15.2 ms
64 bytes from 13.107.42.14 (13.107.42.14): icmp_seq=19 ttl=119 time=12.9 ms
64 bytes from 13.107.42.14 (13.107.42.14): icmp_seq=20 ttl=119 time=14.2 ms
64 bytes from 13.107.42.14 (13.107.42.14): icmp_seq=21 ttl=119 time=14.2 ms
64 bytes from 13.107.42.14 (13.107.42.14): icmp_seq=22 ttl=119 time=14.0 ms
64 bytes from 13.107.42.14 (13.107.42.14): icmp_seq=23 ttl=119 time=16.0 ms
64 bytes from 13.107.42.14 (13.107.42.14): icmp_seq=24 ttl=119 time=12.5 ms
```

```

pujaroy@DESKTOP-U16R768:~$ ping www.cognizant.com
PING e244.dscx.akamaiedge.net (23.201.24.83) 56(84) bytes of data.
64 bytes from a23-201-24-83.deploy.static.akamaitechnologies.com (23.201.24.83): icmp_seq=1 ttl=56 time=15.7 ms
64 bytes from a23-201-24-83.deploy.static.akamaitechnologies.com (23.201.24.83): icmp_seq=2 ttl=56 time=13.6 ms
64 bytes from a23-201-24-83.deploy.static.akamaitechnologies.com (23.201.24.83): icmp_seq=3 ttl=56 time=12.4 ms
64 bytes from a23-201-24-83.deploy.static.akamaitechnologies.com (23.201.24.83): icmp_seq=4 ttl=56 time=13.0 ms
64 bytes from a23-201-24-83.deploy.static.akamaitechnologies.com (23.201.24.83): icmp_seq=5 ttl=56 time=14.3 ms
64 bytes from a23-201-24-83.deploy.static.akamaitechnologies.com (23.201.24.83): icmp_seq=6 ttl=56 time=14.2 ms
64 bytes from a23-201-24-83.deploy.static.akamaitechnologies.com (23.201.24.83): icmp_seq=7 ttl=56 time=13.0 ms
64 bytes from a23-201-24-83.deploy.static.akamaitechnologies.com (23.201.24.83): icmp_seq=8 ttl=56 time=14.5 ms
64 bytes from a23-201-24-83.deploy.static.akamaitechnologies.com (23.201.24.83): icmp_seq=9 ttl=56 time=23.0 ms

```

2)

```

Tracing route to www.google.com [172.217.11.36]
over a maximum of 30 hops:

  1     2 ms     1 ms     1 ms  openrg.home [192.168.1.1]
  2     9 ms     9 ms     9 ms  10.240.186.117
  3    11 ms    21 ms    10 ms  ubr102-ge1-0-1.cmts.bynnnj.cv.net [67.59.245.138]
  4    10 ms     9 ms    10 ms  ool-4353e118.dyn.optonline.net [67.83.225.24]
  5    10 ms     9 ms    13 ms  67.59.239.99
  6    13 ms    11 ms    11 ms  451be0d6.cst.lightpath.net [65.19.120.214]
  7    12 ms    12 ms    11 ms  72.14.215.203
  8    14 ms    14 ms    19 ms  108.170.225.2
  9    14 ms    12 ms    11 ms  172.253.69.219
 10    14 ms    12 ms    21 ms  lga25s61-in-f4.1e100.net [172.217.11.36]

Trace complete.

```

```

Tracing route to e13678.dscb.akamaiedge.net [23.41.190.211]
over a maximum of 30 hops:

  1     2 ms     1 ms     1 ms  openrg.home [192.168.1.1]
  2    15 ms    10 ms    14 ms  10.240.186.117
  3    13 ms    10 ms     9 ms  67.59.232.140
  4    18 ms    11 ms    11 ms  ool-4353e11e.dyn.optonline.net [67.83.225.30]
  5    11 ms    17 ms    10 ms  65.19.121.183
  6    14 ms    12 ms    14 ms  bthpnygr0sw.cv.net [65.19.113.1]
  7    16 ms    12 ms    11 ms  24.157.15.173
  8      *      *      *    Request timed out.
  9    13 ms    11 ms    11 ms  a23-41-190-211.deploy.static.akamaitechnologies.com [23.41.190.211]

Trace complete.

```

3)

Active Connections

Proto	Local Address	Foreign Address	State
TCP	0.0.0.0:135	DESKTOP-U16R768:0	LISTENING
TCP	0.0.0.0:445	DESKTOP-U16R768:0	LISTENING
TCP	0.0.0.0:2343	DESKTOP-U16R768:0	LISTENING
TCP	0.0.0.0:3580	DESKTOP-U16R768:0	LISTENING
TCP	0.0.0.0:5040	DESKTOP-U16R768:0	LISTENING
TCP	0.0.0.0:8733	DESKTOP-U16R768:0	LISTENING
TCP	0.0.0.0:49664	DESKTOP-U16R768:0	LISTENING
TCP	0.0.0.0:49665	DESKTOP-U16R768:0	LISTENING
TCP	0.0.0.0:49666	DESKTOP-U16R768:0	LISTENING
TCP	0.0.0.0:49667	DESKTOP-U16R768:0	LISTENING
TCP	0.0.0.0:49668	DESKTOP-U16R768:0	LISTENING
TCP	0.0.0.0:49696	DESKTOP-U16R768:0	LISTENING
TCP	0.0.0.0:59110	DESKTOP-U16R768:0	LISTENING
TCP	0.0.0.0:59111	DESKTOP-U16R768:0	LISTENING
TCP	127.0.0.1:5354	DESKTOP-U16R768:0	LISTENING
TCP	127.0.0.1:12025	DESKTOP-U16R768:0	LISTENING
TCP	127.0.0.1:12110	DESKTOP-U16R768:0	LISTENING
TCP	127.0.0.1:12119	DESKTOP-U16R768:0	LISTENING
TCP	127.0.0.1:12143	DESKTOP-U16R768:0	LISTENING
TCP	127.0.0.1:12465	DESKTOP-U16R768:0	LISTENING
TCP	127.0.0.1:12563	DESKTOP-U16R768:0	LISTENING
TCP	127.0.0.1:12993	DESKTOP-U16R768:0	LISTENING
TCP	127.0.0.1:12995	DESKTOP-U16R768:0	LISTENING
TCP	127.0.0.1:18171	DESKTOP-U16R768:0	LISTENING
TCP	127.0.0.1:27275	DESKTOP-U16R768:0	LISTENING
TCP	127.0.0.1:49675	DESKTOP-U16R768:0	LISTENING
TCP	127.0.0.1:49675	DESKTOP-U16R768:49687	ESTABLISHED
TCP	127.0.0.1:49675	DESKTOP-U16R768:49688	ESTABLISHED
TCP	127.0.0.1:49675	DESKTOP-U16R768:49689	ESTABLISHED
TCP	127.0.0.1:49675	DESKTOP-U16R768:49690	ESTABLISHED
TCP	127.0.0.1:49675	DESKTOP-U16R768:49695	ESTABLISHED
TCP	127.0.0.1:49681	DESKTOP-U16R768:0	LISTENING
TCP	127.0.0.1:49687	DESKTOP-U16R768:49675	ESTABLISHED
TCP	127.0.0.1:49688	DESKTOP-U16R768:49675	ESTABLISHED
TCP	127.0.0.1:49689	DESKTOP-U16R768:49675	ESTABLISHED
TCP	127.0.0.1:49690	DESKTOP-U16R768:49675	ESTABLISHED
TCP	127.0.0.1:49695	DESKTOP-U16R768:49675	ESTABLISHED
TCP	127.0.0.1:49698	DESKTOP-U16R768:49699	ESTABLISHED
TCP	127.0.0.1:49699	DESKTOP-U16R768:49698	ESTABLISHED
TCP	127.0.0.1:49700	DESKTOP-U16R768:49701	ESTABLISHED
TCP	127.0.0.1:49701	DESKTOP-U16R768:49700	ESTABLISHED

Interface List

```

5...00 ff 4b 26 b5 dd .....TAP-Windows Adapter V9
15...b4 69 21 02 77 be .....Microsoft Wi-Fi Direct Virtual Adapter
9...b6 69 21 02 77 bd .....Microsoft Wi-Fi Direct Virtual Adapter #2
4...b4 69 21 02 77 bd .....Intel(R) Dual Band Wireless-AC 7265
1.....Software Loopback Interface 1

```

IPv4 Route Table

Active Routes:

Network	Destination	Netmask	Gateway	Interface	Metric
0.0.0.0	0.0.0.0		192.168.1.1	192.168.1.6	35
127.0.0.0	255.0.0.0		On-link	127.0.0.1	331
127.0.0.1	255.255.255.255		On-link	127.0.0.1	331
127.255.255.255	255.255.255.255		On-link	127.0.0.1	331
192.168.1.0	255.255.255.0		On-link	192.168.1.6	291
192.168.1.6	255.255.255.255		On-link	192.168.1.6	291
192.168.1.255	255.255.255.255		On-link	192.168.1.6	291
224.0.0.0	240.0.0.0		On-link	127.0.0.1	331
224.0.0.0	240.0.0.0		On-link	192.168.1.6	291
255.255.255.255	255.255.255.255		On-link	127.0.0.1	331
255.255.255.255	255.255.255.255		On-link	192.168.1.6	291

Persistent Routes:

None

IPv6 Route Table

Active Routes:

If	Metric	Network	Destination	Gateway
1	331	::1/128		On-link
4	291	fd4b:8d38:69ba:1::/64		On-link
4	291	fd4b:8d38:69ba:1::/64	fe80::a3e:5dff:feb7:183b	
4	291	fd4b:8d38:69ba:1:6c03:6035:1cfa:ce42/128		On-link
4	291	fd4b:8d38:69ba:1:a461:e3f9:811:91c7/128		On-link
4	291	fe80::/64		On-link
4	291	fe80::6c03:6035:1cfa:ce42/128		On-link
1	331	ff00::/8		On-link
4	291	ff00::/8		On-link

4)

- FileZilla (<https://filezilla-project.org/>)
- L**FTP (<http://lftp.yar.ru/>)
- g**FTP (<https://www.gftp.org/>)
- Nc**FTP (<http://ncftp.com/>)
- Kasablanca** (<http://kasablanca.berlios.de/download.html>)

5)

Windows IP Configuration

Unknown adapter Local Area Connection:

Media State : Media disconnected
Connection-specific DNS Suffix . :

Wireless LAN adapter Local Area Connection* 1:

Media State : Media disconnected
Connection-specific DNS Suffix . :

Wireless LAN adapter Local Area Connection* 2:

Media State : Media disconnected
Connection-specific DNS Suffix . :

Wireless LAN adapter Wi-Fi:

Connection-specific DNS Suffix . : home
IPv6 Address. : fd4b:8d38:69ba:1:6c03:6035:1cfa:ce42
Temporary IPv6 Address. : fd4b:8d38:69ba:1:a461:e3f9:811:91c7
Link-local IPv6 Address : fe80::6c03:6035:1cfa:ce42%4
IPv4 Address. : 192.168.1.6
Subnet Mask : 255.255.255.0
Default Gateway : 192.168.1.1