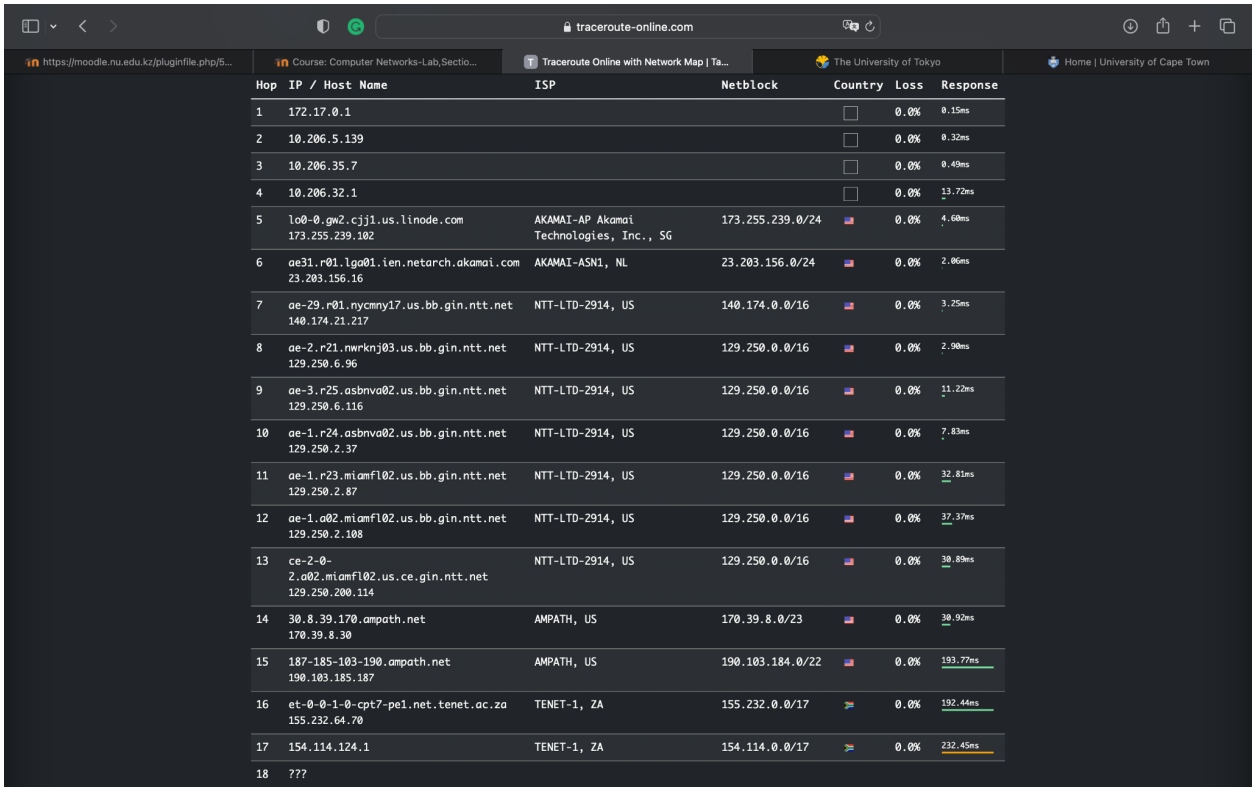
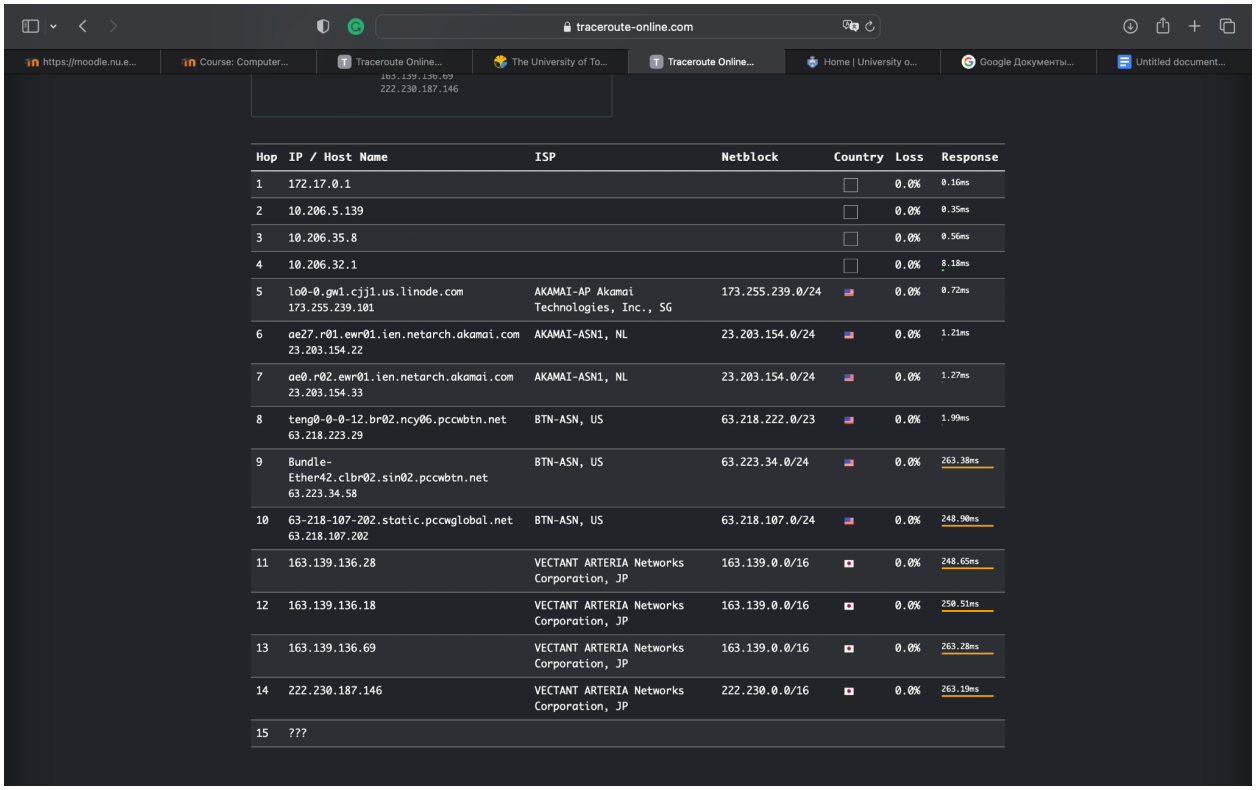
1) Outputs



Hop	IP / Host Name	ISP	Netblock	Country	Loss	Response
1	172.17.0.1				0.0%	0.15ms
2	10.206.5.139				0.0%	0.32ms
3	10.206.35.7				0.0%	0.49ms
4	10.206.32.1				0.0%	13.72ms
5	lo0-0.gw2.cjj1.us.linode.com 173.255.239.102	AKAMAI-AP Akamai Technologies, Inc., SG	173.255.239.0/24		0.0%	4.60ms
6	ae31.r01.lga01.ien.netarch.akamai.com 23.203.156.16	AKAMAI-ASN1, NL	23.203.156.0/24		0.0%	2.06ms
7	ae-29.r01.nycmny17.us.bb.gin.ntt.net 140.174.21.217	NTT-LTD-2914, US	140.174.0.0/16		0.0%	3.25ms
8	ae-2.r21.nwrknj03.us.bb.gin.ntt.net 129.250.6.96	NTT-LTD-2914, US	129.250.0.0/16		0.0%	2.90ms
9	ae-3.r25.asbnva02.us.bb.gin.ntt.net 129.250.6.116	NTT-LTD-2914, US	129.250.0.0/16		0.0%	11.22ms
10	ae-1.r24.asbnva02.us.bb.gin.ntt.net 129.250.2.37	NTT-LTD-2914, US	129.250.0.0/16		0.0%	7.83ms
11	ae-1.r23.miamfl02.us.bb.gin.ntt.net 129.250.2.87	NTT-LTD-2914, US	129.250.0.0/16		0.0%	32.81ms
12	ae-1.a02.miamfl02.us.bb.gin.ntt.net 129.250.2.108	NTT-LTD-2914, US	129.250.0.0/16		0.0%	37.37ms
13	ce-2-0-2.a02.miamfl02.us.ce.gin.ntt.net 129.250.200.114	NTT-LTD-2914, US	129.250.0.0/16		0.0%	30.89ms
14	30.8.39.170.ampath.net 170.39.8.30	AMPATH, US	170.39.8.0/23		0.0%	30.92ms
15	187-185-103-190.ampath.net 190.103.185.187	AMPATH, US	190.103.184.0/22		0.0%	193.77ms
16	et-0-0-1-0-cpt7-pe1.net.tenet.ac.za 155.232.64.70	TENET-1, ZA	155.232.0.0/17		0.0%	192.44ms
17	154.114.124.1	TENET-1, ZA	154.114.0.0/17		0.0%	232.45ms
18	???					

This is the university of Cape Town



Hop	IP / Host Name	ISP	Netblock	Country	Loss	Response
1	172.17.0.1				0.0%	0.16ms
2	10.206.5.139				0.0%	0.35ms
3	10.206.35.8				0.0%	0.56ms
4	10.206.32.1				0.0%	8.18ms
5	lo0-0.gw1.cjj1.us.linode.com 173.255.239.101	AKAMAI-AP Akamai Technologies, Inc., SG	173.255.239.0/24		0.0%	0.72ms
6	ae27.r01.ewr01.ien.netarch.akamai.com 23.203.154.22	AKAMAI-ASN1, NL	23.203.154.0/24		0.0%	1.21ms
7	ae0.r02.ewr01.ien.netarch.akamai.com 23.203.154.33	AKAMAI-ASN1, NL	23.203.154.0/24		0.0%	1.27ms
8	teng0-0-0-12.br02.ncy06.pccwbtn.net 63.218.223.29	BTN-ASN, US	63.218.222.0/23		0.0%	1.99ms
9	Bundle-Ether42.clbr02.sin02.pccwbtn.net 63.223.34.58	BTN-ASN, US	63.223.34.0/24		0.0%	263.38ms
10	63-218-107-202.static.pccwglobal.net 63.218.107.202	BTN-ASN, US	63.218.107.0/24		0.0%	248.90ms
11	163.139.136.28	VECTANT ARTERIA Networks Corporation, JP	163.139.0.0/16		0.0%	248.65ms
12	163.139.136.18	VECTANT ARTERIA Networks Corporation, JP	163.139.0.0/16		0.0%	250.51ms
13	163.139.136.69	VECTANT ARTERIA Networks Corporation, JP	163.139.0.0/16		0.0%	263.28ms
14	222.230.187.146	VECTANT ARTERIA Networks Corporation, JP	222.230.0.0/16		0.0%	263.19ms
15	???					

And The University of Tokyo

2) The first row is the number of routers. Between my computer and Cape town university: 17 routers, while with the University of Tokyo: 14

3)

#	IP address	Location
1	`172.17.0.1`	Astana, Kazakhstan
2	`10.206.5.139`	Astana, Kazakhstan
3	`10.206.35.7`	Astana, Kazakhstan
4	`10.206.32.1`	Astana, Kazakhstan
5	`173.255.239.102`	New Jersey, USA
6	`23.203.156.16`	New York, USA
7	`140.174.21.217`	New York, USA
8	`129.250.6.96`	New Jersey, USA
9	`129.250.6.116`	Virginia, USA

10	`129.250.2.37`	Virginia, USA
11	`129.250.2.87`	Florida, USA
12	`129.250.2.108`	Amsterdam, Netherlands
13	`129.250.200.114`	Florida, USA
14	`170.39.8.30`	Florida, USA
15	`190.103.185.187`	Florida, USA
16	`155.232.64.70`	Cape Town, South Africa
17	`154.114.124.1`	Mfuleni, Cape Town, South Africa
18	`?`	Request timed out

Tokyo:

#	IP Address	Location
1	`172.17.0.1`	Astana, Kazakhstan
2	`10.206.5.139`	Astana, Kazakhstan
3	`10.206.35.8`	Astana, Kazakhstan
4	`10.206.32.1`	Astana, Kazakhstan
5	`173.255.239.101`	New Jersey, USA
6	`23.203.154.22`	New Jersey, USA
7	`23.203.154.33`	New Jersey, USA
8	`63.218.223.29`	Nancy, France
9	`63.223.34.58`	Singapore, Singapore
10	`63.218.107.202`	Virginia, USA
11	`163.139.136.28`	Tokyo, Japan
12	`163.139.136.18`	Tokyo, Japan
13	`163.139.136.69`	Tokyo, Japan
14	`222.230.187.146`	Tokyo, Japan

15	?	Request timed out

4. In the screenshots above, we can notice a delay time. This round-trip delay includes transmission delays, propagation delays, router processing delays, and queuing delays. The queuing delay varies with time, therefore round-trip delay of packets sent from one to another router can be longer than others. For example 14th and 15th routers in the example of South Africa, the route had a delay of 31 ms and in the 15th, the delay sharply changed to 194 ms.