

1. TESTES EM DIFERENTES HORÁRIOS

Os testes foram realizados ao longo de 3 dias, em 3 horários diferentes, e em 3 servidores diferentes, no ambiente virtual Linux, a partir da rede da residência do autor. Porém, os testes da 13h30 dos dias 23/07 e 24/07 foram feitos a partir da rede da UNIOESTE (WIFI_UNIOESTE), com o sistema operacional Windows 11.

1.1 Testes do dia 21/07/2024, às 19h30:

```
radajaaj@roboroto:~$ ping inf.unioeste.br
PING inf.unioeste.br (131.255.86.19) 56(84) bytes of data.
64 bytes from 19-86-255-131.unioeste.br (131.255.86.19): icmp_seq=1 ttl=56 time=5.26 ms
64 bytes from 19-86-255-131.unioeste.br (131.255.86.19): icmp_seq=2 ttl=56 time=16.9 ms
64 bytes from 19-86-255-131.unioeste.br (131.255.86.19): icmp_seq=3 ttl=56 time=16.9 ms
^C
--- inf.unioeste.br ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2004ms
rtt min/avg/max/mdev = 5.258/13.045/16.940/5.506 ms
radajaaj@roboroto:~$ traceroute inf.unioeste.br
traceroute to inf.unioeste.br (131.255.86.19), 30 hops max, 60 byte packets
1  _gateway (192.168.1.1)  26.501 ms  25.783 ms  24.576 ms
2  45-5-196-1.rpnet.net.br (45.5.196.1)  29.278 ms  34.742 ms  34.210 ms
3  198.18.0.1 (198.18.0.1)  33.686 ms  33.166 ms  32.292 ms
4  198.18.0.33 (198.18.0.33)  25.352 ms  24.796 ms  30.248 ms
5  198.18.0.29 (198.18.0.29)  30.359 ms  29.838 ms  29.310 ms
6  as264471.cascavel.pr.rix.br (45.227.3.18)  27.569 ms  17.521 ms  17.368 ms
```

Figura 9: Testes no servidor inf.unioeste.br, no dia 21/07/2024, às 19h30.

```
radajaaj@roboroto:~$ ping info.gouv.fr
PING info.gouv.fr (217.70.184.55) 56(84) bytes of data.
64 bytes from webredir.gandi.net (217.70.184.55): icmp_seq=1 ttl=50 time=236 ms
64 bytes from webredir.gandi.net (217.70.184.55): icmp_seq=2 ttl=50 time=208 ms
^C
--- info.gouv.fr ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1315ms
rtt min/avg/max/mdev = 208.378/222.188/235.999/13.810 ms
radajaaj@roboroto:~$ traceroute info.gouv.fr
traceroute to info.gouv.fr (217.70.184.55), 30 hops max, 60 byte packets
1  _gateway (192.168.1.1)  2.193 ms  4.207 ms  5.482 ms
2  45-5-196-1.rpnet.net.br (45.5.196.1)  10.646 ms  10.464 ms  10.318 ms
3  198.18.0.1 (198.18.0.1)  10.844 ms  10.702 ms  10.544 ms
4  198.18.0.33 (198.18.0.33)  9.405 ms  9.175 ms  9.050 ms
5  198.18.0.29 (198.18.0.29)  16.297 ms  16.175 ms  16.029 ms
6  45.234.0.109 (45.234.0.109)  15.805 ms  6.601 ms  8.291 ms
7  100.127.255.77 (100.127.255.77)  7.703 ms  7.532 ms  8.427 ms
8  100.127.255.199 (100.127.255.199)  7.236 ms  7.071 ms  8.014 ms
9  8.243.39.233 (8.243.39.233)  38.477 ms  39.414 ms  39.257 ms
10  *  *  *
11  ae-7.a00.saplbr02.br.bb.gin.ntt.net (129.250.8.5)  27.122 ms  28.212 ms  27.712 ms
12  ae-0.f5-networks.saplbr02.br.bb.gin.ntt.net (200.15.9.25)  21.687 ms  21.399 ms  21.110 ms
13  100.99.0.79 (100.99.0.79)  131.194 ms  131.045 ms  132.581 ms
14  100.99.0.246 (100.99.0.246)  215.250 ms  212.722 ms  211.573 ms  FAQ
15  100.99.0.140 (100.99.0.140)  211.336 ms  212.280 ms  211.239 ms
16  100.99.0.132 (100.99.0.132)  211.053 ms  212.173 ms  222.134 ms
```

Figura 10: Testes no servidor info.gouv.fr, no dia 21/07/2024, às 19h30.

```

radajaaj@roboroto:~$ ping www.japan.go.jp
PING www.japan.go.jp (108.158.147.2) 56(84) bytes of data.
64 bytes from server-108-158-147-2.gru3.r.cloudfront.net (108.158.147.2): icmp_seq=1 ttl=244 time=26.7 ms
64 bytes from server-108-158-147-2.gru3.r.cloudfront.net (108.158.147.2): icmp_seq=2 ttl=244 time=20.6 ms
64 bytes from server-108-158-147-2.gru3.r.cloudfront.net (108.158.147.2): icmp_seq=3 ttl=244 time=175 ms
^C
--- www.japan.go.jp ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2004ms
rtt min/avg/max/mdev = 20.594/74.105/175.050/71.421 ms
radajaaj@roboroto:~$ traceroute www.japan.go.jp
traceroute to www.japan.go.jp (108.158.147.2), 30 hops max, 60 byte packets
1 _gateway (192.168.1.1) 10.978 ms 10.677 ms 10.460 ms
2 45-5-196-1.rpnet.net.br (45.5.196.1) 17.030 ms 16.994 ms 16.874 ms
3 198.18.0.1 (198.18.0.1) 16.281 ms 15.523 ms 15.340 ms
4 198.18.0.33 (198.18.0.33) 15.214 ms 15.037 ms 14.917 ms
5 198.18.0.29 (198.18.0.29) 16.958 ms 15.570 ms 16.689 ms
6 45.234.0.109 (45.234.0.109) 14.370 ms 55.595 ms 55.260 ms
7 100.127.255.77 (100.127.255.77) 55.112 ms 126.493 ms 125.972 ms
8 100.127.255.199 (100.127.255.199) 125.826 ms 125.663 ms 125.544 ms
9 100.127.255.11 (100.127.255.11) 140.739 ms 140.620 ms 140.445 ms
10 as16509.saopaulo.sp.ix.br (187.16.221.99) 141.062 ms 140.589 ms 153.449 ms
11 * * *
12 * * *
13 * * *
14 024.0757.0 PM -03
15 * * *
16 150.222.70.218 (150.222.70.218) 325.446 ms 150.222.70.219 (150.222.70.219) 37.830 ms 48.048 ms
17 * * *

```

Figura 11: Testes no servidor www.japan.go.jp, no dia 21/07/2024, às 19h30.

1.2 Testes do dia 22/07/2024, às 7h30:

```

radajaaj@roboroto:~$ ping inf.unioeste.br
PING inf.unioeste.br (131.255.86.19) 56(84) bytes of data.
64 bytes from www.inf.unioeste.br (131.255.86.19): icmp_seq=1 ttl=56 time=31.4 ms
64 bytes from www.inf.unioeste.br (131.255.86.19): icmp_seq=2 ttl=56 time=5.47 ms
^C
--- inf.unioeste.br ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 3123ms
rtt min/avg/max/mdev = 5.470/18.451/31.433/12.981 ms
radajaaj@roboroto:~$ traceroute inf.unioeste.br
traceroute to inf.unioeste.br (131.255.86.19), 30 hops max, 60 byte packets
1 _gateway (192.168.1.1) 12.152 ms 11.502 ms 11.343 ms
2 45-5-196-1.rpnet.net.br (45.5.196.1) 11.214 ms 11.027 ms 11.142 ms
3 198.18.0.1 (198.18.0.1) 11.617 ms 14.674 ms 14.541 ms
4 198.18.0.33 (198.18.0.33) 10.331 ms 10.192 ms 10.050 ms
5 198.18.0.29 (198.18.0.29) 13.959 ms 13.828 ms 13.693 ms
6 as264471.cascavel.pr.ix.br (45.227.3.18) 10.368 ms 5.759 ms 5.026 ms
7 * * *

```

Figura 12: Testes no servidor inf.unioeste.br, no dia 22/07/2024, às 7h30.

```

radajaaj@roboroto:~$ ping info.gouv.fr
PING info.gouv.fr (217.70.184.55) 56(84) bytes of data.
64 bytes from webredir.gandi.net (217.70.184.55): icmp_seq=1 ttl=50 time=303 ms
64 bytes from webredir.gandi.net (217.70.184.55): icmp_seq=2 ttl=50 time=208 ms
^C
--- info.gouv.fr ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1431ms
rtt min/avg/max/mdev = 207.664/255.488/303.312/47.824 ms
radajaaj@roboroto:~$ traceroute info.gouv.fr
traceroute to info.gouv.fr (217.70.184.55), 30 hops max, 60 byte packets
 1 _gateway (192.168.1.1) 3.075 ms 2.213 ms 2.855 ms
 2 45-5-196-1.rpnet.net.br (45.5.196.1) 7.978 ms 7.662 ms 6.775 ms
 3 198.18.0.1 (198.18.0.1) 13.261 ms 13.008 ms 12.764 ms
 4 198.18.0.33 (198.18.0.33) 12.519 ms 12.257 ms 11.955 ms
 5 198.18.0.29 (198.18.0.29) 12.105 ms 11.814 ms 11.569 ms
 6 45.234.0.109 (45.234.0.109) 10.850 ms 6.091 ms 5.675 ms
 7 100.127.255.77 (100.127.255.77) 5.421 ms 9.704 ms 8.056 ms
 8 100.127.255.199 (100.127.255.199) 7.656 ms 7.484 ms 7.356 ms
 9 8.243.39.233 (8.243.39.233) 25.862 ms 25.684 ms 25.517 ms
10 * * *
11 ae-7.a00.sapnbr02.br.bb.gin.ntt.net (129.250.8.5) 24.384 ms 22.843 ms 22.398 ms
12 ae-0.f5-networks.sapnbr02.br.bb.gin.ntt.net (200.15.9.25) 20.608 ms 19.711 ms 21.644 ms
13 100.99.0.79 (100.99.0.79) 164.081 ms 160.737 ms 159.455 ms
14 100.99.0.246 (100.99.0.246) 208.582 ms 306.368 ms 305.345 ms
15 100.99.0.140 (100.99.0.140) 304.726 ms 303.775 ms 303.221 ms
16 100.99.0.132 (100.99.0.132) 301.518 ms 300.643 ms 299.060 ms

```

Figura 13: Testes no servidor info.gouv.fr, no dia 22/07/2024, às 7h30.

```

radajaaj@roboroto:~$ ping www.japan.go.jp
PING www.japan.go.jp (108.158.147.32) 56(84) bytes of data.
64 bytes from server-108-158-147-32.gru3.r.cloudfront.net (108.158.147.32): icmp_seq=1 ttl=244 time=
20.8 ms
64 bytes from server-108-158-147-32.gru3.r.cloudfront.net (108.158.147.32): icmp_seq=2 ttl=244 time=
23.4 ms
^C
--- www.japan.go.jp ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1003ms
rtt min/avg/max/mdev = 20.775/22.104/23.433/1.329 ms
radajaaj@roboroto:~$ traceroute www.japan.go.jp
traceroute to www.japan.go.jp (108.158.147.32), 30 hops max, 60 byte packets
 1 _gateway (192.168.1.1) 2.929 ms 2.106 ms 2.150 ms
 2 45-5-196-1.rpnet.net.br (45.5.196.1) 10.961 ms 10.245 ms 9.661 ms
 3 198.18.0.1 (198.18.0.1) 7.367 ms 6.926 ms 5.743 ms
 4 198.18.0.33 (198.18.0.33) 3.962 ms 3.438 ms 3.467 ms
 5 198.18.0.29 (198.18.0.29) 3.798 ms 4.735 ms 8.933 ms
 6 45.234.0.109 (45.234.0.109) 7.122 ms 8.210 ms 8.407 ms
 7 100.127.255.77 (100.127.255.77) 9.169 ms 8.460 ms 7.296 ms
 8 100.127.255.199 (100.127.255.199) 5.190 ms 30.401 ms 29.429 ms
 9 100.127.255.11 (100.127.255.11) 42.683 ms 41.604 ms 38.258 ms
10 as16509.saopaulo.sp.ix.br (187.16.221.99) 51.173 ms 50.071 ms 47.802 ms
11 * * *
12 * * *
13 * * *
14 * * *
15 * * *
16 150.222.70.218 (150.222.70.218) 20.395 ms 23.648 ms 20.727 ms
17 * * *

```

Figura 14: Testes no servidor www.japan.go.jp, no dia 22/07/2024, às 7h30.

1.3 Testes do dia 22/07/2024, às 13h30:

```
radajaaj@roboroto:~  
$ ping inf.unioeste.br  
PING inf.unioeste.br (131.255.86.19) 56(84) bytes of data.  
64 bytes from 19-86-255-131.unioeste.br (131.255.86.19): icmp_seq=1 ttl=56 time=5.53 ms  
64 bytes from www.inf.unioeste.br (131.255.86.19): icmp_seq=2 ttl=56 time=7.81 ms  
^C  
--- inf.unioeste.br ping statistics ---  
2 packets transmitted, 2 received, 0% packet loss, time 1002ms  
rtt min/avg/max/mdev = 5.528/6.668/7.808/1.140 ms  
radajaaj@roboroto:~  
$ traceroute inf.unioeste.br  
traceroute to inf.unioeste.br (131.255.86.19), 30 hops max, 60 byte packets  
1 _gateway (192.168.1.1) 1.973 ms 1.840 ms 1.780 ms  
2 45-5-196-1.rpnet.net.br (45.5.196.1) 5.710 ms 6.232 ms 6.157 ms  
3 198.18.0.1 (198.18.0.1) 10.826 ms 10.751 ms 10.689 ms  
4 198.18.0.33 (198.18.0.33) 5.295 ms 5.239 ms 5.170 ms  
5 198.18.0.29 (198.18.0.29) 10.751 ms 17.097 ms 17.041 ms  
6 as264471.cascavel.pr.rix.br (45.227.3.18) 5.520 ms 7.043 ms 6.929 ms  
* * *
```

Figura 15: Testes no servidor inf.unioeste.br, no dia 22/07/2024, às 13h30.

```
radajaaj@roboroto:~  
$ ping info.gouv.fr  
PING info.gouv.fr (217.70.184.55) 56(84) bytes of data.  
64 bytes from webredir.gandi.net (217.70.184.55): icmp_seq=1 ttl=50 time=305 ms  
64 bytes from webredir.gandi.net (217.70.184.55): icmp_seq=2 ttl=50 time=226 ms  
^C  
--- info.gouv.fr ping statistics ---  
2 packets transmitted, 2 received, 0% packet loss, time 1001ms  
rtt min/avg/max/mdev = 225.648/265.363/305.078/39.715 ms  
radajaaj@roboroto:~  
$ traceroute info.gouv.fr  
traceroute to info.gouv.fr (217.70.184.55), 30 hops max, 60 byte packets  
1 _gateway (192.168.1.1) 2.090 ms 2.616 ms 3.706 ms  
2 45-5-196-1.rpnet.net.br (45.5.196.1) 6.818 ms 6.608 ms 6.424 ms  
3 198.18.0.1 (198.18.0.1) 7.177 ms 10.451 ms 10.252 ms  
4 198.18.0.33 (198.18.0.33) 5.280 ms 5.081 ms 5.050 ms  
5 198.18.0.29 (198.18.0.29) 9.440 ms 9.314 ms 8.826 ms  
6 Bundle-Ether20.2175.static.gvt.net.br (177.135.126.60) 8.598 ms 5.490 ms 5.382 ms  
7 152-255-142-10.user.vivozap.com.br (152.255.142.10) 12.280 ms 152-255-130-74.user.vivozap.com.b  
r (152.255.130.74) 13.256 ms 152-255-130-72.user.vivozap.com.br (152.255.130.72) 10.410 ms  
8 152-255-161-167.user.vivozap.com.br (152.255.161.167) 23.274 ms 25.990 ms 24.668 ms  
9 187-100-57-113.dsl.telesp.net.br (187.100.57.113) 26.243 ms 26.798 ms 187-100-57-107.dsl.teles  
p.net.br (187.100.57.107) 25.523 ms  
* * *  
11 84.16.7.228 (84.16.7.228) 27.272 ms 26.937 ms *  
12 5.53.5.190 (5.53.5.190) 28.407 ms * *  
13 ntt-ae5-0-grtsaotm3.net.telefonicaglobalsolutions.com (213.140.53.51) 26.686 ms 27.089 ms 26.  
198 ms  
14 ae-0.f5-networks.sapnbr02.bb.gin.ntt.net (200.15.9.25) 23.965 ms 23.789 ms 23.650 ms  
15 100.99.0.79 (100.99.0.79) 135.639 ms 132.277 ms 135.342 ms  
16 100.99.0.246 (100.99.0.246) 213.539 ms 239.678 ms 239.311 ms  
17 100.99.0.140 (100.99.0.140) 238.857 ms 238.517 ms 238.251 ms  
18 100.99.0.132 (100.99.0.132) 237.538 ms 215.978 ms 215.795 ms  
* * *
```

Figura 16: Testes no servidor info.gouv.fr, no dia 22/07/2024, às 13h30.

```

radajaaj@roboroto:~$ ping www.japan.go.jp
PING www.japan.go.jp (108.158.147.32) 56(84) bytes of data.
64 bytes from server-108-158-147-32.gru3.r.cloudfront.net (108.158.147.32): icmp_seq=1 ttl=244 time=24.3 ms
64 bytes from server-108-158-147-32.gru3.r.cloudfront.net (108.158.147.32): icmp_seq=2 ttl=244 time=24.6 ms
^C
--- www.japan.go.jp ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1007ms
rtt min/avg/max/mdev = 24.340/24.490/24.640/0.150 ms
radajaaj@roboroto:~$ traceroute www.japan.go.jp
traceroute to www.japan.go.jp (108.158.147.38), 30 hops max, 60 byte packets
1 _gateway (192.168.1.1) 3.826 ms 2.980 ms 2.801 ms
2 45-5-196-1.rpnet.net.br (45.5.196.1) 22.212 ms 22.074 ms 21.019 ms
3 198.18.0.1 (198.18.0.1) 20.673 ms 20.439 ms 20.589 ms
4 198.18.0.33 (198.18.0.33) 20.010 ms 19.803 ms 19.553 ms
5 198.18.0.29 (198.18.0.29) 19.393 ms 18.803 ms 18.661 ms
6 Bundle-Ether20.2175.static.gvt.net.br (177.135.126.60) 18.413 ms 5.589 ms 5.425 ms
7 * * *
8 * * *
9 * * *
10 * * *
11 * * *
12 * * *
13 150.222.70.218 (150.222.70.218) 20.900 ms 150.222.70.219 (150.222.70.219) 21.984 ms 150.222.70.218 (150.222.70.218) 21.914 ms

```

Figura 17: Testes no servidor www.japan.go.jp, no dia 22/07/2024, às 13h30.

1.4 Testes do dia 22/07/2024, às 19h30:

```

radajaaj@roboroto:~$ ping inf.unioeste.br
PING inf.unioeste.br (131.255.86.19) 56(84) bytes of data.
64 bytes from inf.unioeste.br (131.255.86.19): icmp_seq=1 ttl=56 time=5.14 ms
^C64 bytes from 131.255.86.19: icmp_seq=2 ttl=56 time=8.70 ms

--- inf.unioeste.br ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 5016ms
rtt min/avg/max/mdev = 5.143/6.920/8.697/1.777 ms
radajaaj@roboroto:~$ traceroute inf.unioeste.br
traceroute to inf.unioeste.br (131.255.86.19), 30 hops max, 60 byte packets
1 _gateway (192.168.1.1) 2.971 ms 2.239 ms 2.291 ms
2 45-5-196-1.rpnet.net.br (45.5.196.1) 7.459 ms 7.954 ms 7.847 ms
3 198.18.0.1 (198.18.0.1) 9.722 ms 10.193 ms 10.080 ms
4 198.18.0.33 (198.18.0.33) 6.806 ms 6.694 ms 6.589 ms
5 198.18.0.29 (198.18.0.29) 9.654 ms 10.048 ms 9.935 ms
6 as264471.cascavel.pr.ix.br (45.227.3.18) 7.393 ms 13.387 ms 13.078 ms

```

Figura 18: Testes no servidor inf.unioeste.br, no dia 22/07/2024, às 19h30.

```

radajaaj@roboroto:~$ ping info.gouv.fr
PING info.gouv.fr (217.70.184.55) 56(84) bytes of data.
64 bytes from webredir.gandi.net (217.70.184.55): icmp_seq=1 ttl=50 time=259 ms
64 bytes from webredir.gandi.net (217.70.184.55): icmp_seq=2 ttl=50 time=226 ms
^C64 bytes from 217.70.184.55: icmp_seq=3 ttl=50 time=210 ms

--- info.gouv.fr ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 11409ms
rtt min/avg/max/mdev = 210.421/231.779/258.643/20.067 ms
radajaaj@roboroto:~$ traceroute info.gouv.fr
traceroute to info.gouv.fr (217.70.184.55), 30 hops max, 60 byte packets
 1 _gateway (192.168.1.1)  1.795 ms  1.496 ms  1.940 ms
 2 45-5-196-1.rpnet.net.br (45.5.196.1)  9.162 ms  9.054 ms  8.941 ms
 3 198.18.0.1 (198.18.0.1)  8.817 ms  8.853 ms  8.586 ms
 4 198.18.0.33 (198.18.0.33)  8.452 ms  8.349 ms  8.194 ms
 5 198.18.0.29 (198.18.0.29)  8.922 ms  8.099 ms  8.685 ms
 6 Bundle-Ether20.2175.static.gvt.net.br (177.135.126.60)  8.307 ms  4.455 ms  4.867 ms
 7 152-255-130-70.user.vivozap.com.br (152.255.130.70)  12.705 ms  152-255-142-14.user.vivozap.com.br (152.255.142.14)  15.838 ms  152-255-173-50.user.vivozap.com.br (152.255.173.50)  15.713 ms
 8 152-255-161-167.user.vivozap.com.br (152.255.161.167)  25.645 ms  26.371 ms  25.206 ms
 9 187-100-57-107.dsl.telesp.net.br (187.100.57.107)  31.856 ms  187-100-57-113.dsl.telesp.net.br (187.100.57.113)  27.612 ms  27.465 ms
10 * * *
11 84.16.7.228 (84.16.7.228)  28.778 ms  28.664 ms  28.428 ms
12 * 94.142.97.214 (94.142.97.214)  25.546 ms *
13 ntt-ae5-0-grtsaotm3.net.telefonicaglobalsolutions.com (213.140.53.51)  29.174 ms  28.066 ms  26.873 ms
14 ae-0.f5-networks.sapnbr02.br.bb.gin.ntt.net (200.15.9.25)  24.907 ms  30.124 ms  26.069 ms
15 100.99.0.79 (100.99.0.79)  133.183 ms  134.068 ms  134.017 ms
16 100.99.0.246 (100.99.0.246)  212.420 ms  211.877 ms  211.842 ms
17 100.99.0.140 (100.99.0.140)  215.680 ms  214.679 ms  218.478 ms
18 100.99.0.132 (100.99.0.132)  216.321 ms  210.926 ms  211.417 ms

```

Figura 19: Testes no servidor info.gouv.fr, no dia 22/07/2024, às 19h30.

```

radajaaj@roboroto:~$ ping www.japan.go.jp
PING www.japan.go.jp (108.158.147.9) 56(84) bytes of data.
64 bytes from server-108-158-147-9.gru3.r.cloudfront.net (108.158.147.9): icmp_seq=1 ttl=244 time=26.1 ms
64 bytes from server-108-158-147-9.gru3.r.cloudfront.net (108.158.147.9): icmp_seq=2 ttl=244 time=23.3 ms
^C64 bytes from 108.158.147.9: icmp_seq=3 ttl=244 time=22.6 ms
3 198.18.0.1 (198.18.0.1)  8.817 ms  8.853 ms  8.586 ms
4 198.18.0.33 (198.18.0.33)  8.452 ms  8.349 ms  8.194 ms
5 198.18.0.29 (198.18.0.29)  8.099 ms  8.685 ms
--- www.japan.go.jp ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 10284ms
rtt min/avg/max/mdev = 22.615/24.010/26.142/1.531 ms
radajaaj@roboroto:~$ traceroute www.japan.go.jp
traceroute to www.japan.go.jp (108.158.147.9), 30 hops max, 60 byte packets
 1 _gateway (192.168.1.1)  4.158 ms  3.734 ms  3.205 ms
 2 45-5-196-1.rpnet.net.br (45.5.196.1)  9.892 ms  9.437 ms  9.005 ms
 3 198.18.0.1 (198.18.0.1)  8.250 ms  9.631 ms  8.515 ms
 4 198.18.0.33 (198.18.0.33)  6.205 ms  5.808 ms  5.360 ms
 5 198.18.0.29 (198.18.0.29)  7.707 ms  7.230 ms  5.948 ms
 6 Bundle-Ether20.2175.static.gvt.net.br (177.135.126.60)  4.462 ms  6.050 ms  5.956 ms
 7 ae-0.f5-networks.sapnbr02.br.bb.gin.ntt.net (200.15.9.25)  24.907 ms  30.124 ms  26.069 ms
 8 100.99.0.79 (100.99.0.79)  133.183 ms  134.068 ms  134.017 ms
 9 100.99.0.246 (100.99.0.246)  212.420 ms  211.877 ms  211.842 ms
10 100.99.0.140 (100.99.0.140)  215.680 ms  214.679 ms  218.478 ms
11 100.99.0.132 (100.99.0.132)  216.321 ms  210.926 ms  211.417 ms
12 150.222.70.218 (150.222.70.218)  22.113 ms  33.031 ms  27.779 ms
13 * * *

```

Figura 20: Testes no servidor www.japan.go.jp, no dia 22/07/2024, às 19h30.

1.5 Testes do dia 23/07/2024, às 7h30:

```
$ ping inf.unioeste.br
PING inf.unioeste.br (131.255.86.19) 56(84) bytes of data.
64 bytes from inf.unioeste.br (131.255.86.19): icmp_seq=1 ttl=56 time=5.80 ms
64 bytes from www.inf.unioeste.br (131.255.86.19): icmp_seq=2 ttl=56 time=7.27 ms
^C
--- inf.unioeste.br ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1002ms
rtt min/avg/max/mdev = 5.797/6.531/7.265/0.734 ms
radajaaj@roboroto:~
```

```
$ traceroute inf.unioeste.br
traceroute to inf.unioeste.br (131.255.86.19), 30 hops max, 60 byte packets
 1 _gateway (192.168.1.1)  4.767 ms  4.301 ms  4.112 ms
 2 45-5-196-1.rpnet.net.br (45.5.196.1)  5.880 ms  5.754 ms  5.631 ms
 3 198.18.0.1 (198.18.0.1)  12.024 ms  9.782 ms  9.572 ms
 4 198.18.0.33 (198.18.0.33)  5.528 ms  5.001 ms  4.673 ms
 5 198.18.0.29 (198.18.0.29)  8.511 ms  8.337 ms  8.803 ms
 6 as264471.cascavel.pr.rix.br (45.227.3.18)  5.431 ms  5.945 ms  5.262 ms
 7 * * *
```

Figura 21: Testes no servidor inf.unioeste.br, no dia 23/07/2024, às 7h30.

```
radajaaj@roboroto:~
```

```
$ ping info.gouv.fr
PING info.gouv.fr (217.70.184.55) 56(84) bytes of data.
64 bytes from webredir.gandi.net (217.70.184.55): icmp_seq=1 ttl=50 time=262 ms
64 bytes from webredir.gandi.net (217.70.184.55): icmp_seq=2 ttl=50 time=307 ms
^C
--- info.gouv.fr ping statistics ---
2 packets transmitted, 0% packet loss, time 1491ms
rtt min/avg/max/mdev = 262.096/284.443/306.790/22.347 ms
radajaaj@roboroto:~
```

```
$ traceroute info.gouv.fr
traceroute to info.gouv.fr (217.70.184.55), 30 hops max, 60 byte packets
 1 _gateway (192.168.1.1)  2.554 ms  3.497 ms  3.917 ms
 2 45-5-196-1.rpnet.net.br (45.5.196.1)  6.740 ms  6.605 ms  6.466 ms
 3 198.18.0.1 (198.18.0.1)  7.064 ms  6.926 ms  6.798 ms
 4 198.18.0.33 (198.18.0.33)  5.893 ms  5.751 ms  5.604 ms
 5 198.18.0.29 (198.18.0.29)  6.151 ms  6.512 ms  6.330 ms
 6 Bundle-Ether20.2175.static.gvt.net.br (177.135.126.60)  6.772 ms  4.804 ms  14.596 ms
 7 152-255-142-14.user.vivozap.com.br (152.255.142.14)  14.370 ms  152-255-173-50.user.vivozap.com.br (152.25
5.173.50)  14.216 ms  152-255-142-10.user.vivozap.com.br (152.255.142.10)  14.069 ms
 8 152-255-161-167.user.vivozap.com.br (152.255.161.167)  32.876 ms  32.251 ms  32.104 ms
 9 187-100-57-107.dsl.telesp.net.br (187.100.57.107)  50.367 ms  187-100-57-113.dsl.telesp.net.br (187.100.57
.113)  50.226 ms  187-100-57-107.dsl.telesp.net.br (187.100.57.107)  31.692 ms
10 * * *
11 84.16.7.228 (84.16.7.228)  48.984 ms * 47.994 ms
12 5.53.5.190 (5.53.5.190)  28.438 ms * 5.53.3.0 (5.53.3.0)  25.383 ms
13 ntt-ae5-0-grtsaotm3.net.telefonicaglobalsolutions.com (213.140.53.51)  27.197 ms  26.933 ms  26.721 ms
14 ae-0.f5-networks.sapnbr02.br.bb.gin.ntt.net (200.15.9.25)  32.713 ms  32.589 ms  32.471 ms
15 100.99.1.41 (100.99.1.41)  23.574 ms  24.463 ms  24.327 ms
16 100.99.0.153 (100.99.0.153)  246.733 ms  245.991 ms  245.364 ms
17 100.99.0.24 (100.99.0.24)  244.794 ms  244.010 ms  243.409 ms
18 100.99.0.37 (100.99.0.37)  242.499 ms  241.935 ms  312.643 ms
19 * * *
```

Figura 22: Testes no servidor info.gouv.fr, no dia 23/07/2024, às 7h30.

```

radajaaj@roboroto:-
$ ping www.japan.go.jp
PING www.japan.go.jp (108.139.182.12) 56(84) bytes of data.
64 bytes from server-108-139-182-12.gru3.r.cloudfront.net (108.139.182.12): icmp_seq=1 ttl=244 time=36.6 ms
64 bytes from server-108-139-182-12.gru3.r.cloudfront.net (108.139.182.12): icmp_seq=2 ttl=244 time=28.7 ms
^C
-- www.japan.go.jp ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1004ms
rtt min/avg/max/mdev = 28.695/32.665/36.635/3.970 ms
radajaaj@roboroto:-
$ traceroute www.japan.go.jp
traceroute to www.japan.go.jp (108.139.182.120), 30 hops max, 60 byte packets
 1 _gateway (192.168.1.1)  5.239 ms  4.865 ms  4.632 ms
 2 45-5-196-1.rpnet.net.br (45.5.196.1)  5.628 ms  5.383 ms  5.806 ms
 3 198.18.0.1 (198.18.0.1)  5.643 ms  5.452 ms  13.466 ms
 4 198.18.0.33 (198.18.0.33)  5.540 ms  5.279 ms  5.080 ms
 5 198.18.0.29 (198.18.0.29)  18.200 ms  12.385 ms  12.175 ms
 6 Bundle-Ether20.2175.static.gvt.net.br (177.135.126.60)  12.052 ms  7.683 ms  5.648 ms
 7 *
 8 *
 9 *
10 *
11 *
12 *
13 150.222.70.210 (150.222.70.210)  26.774 ms 150.222.70.211 (150.222.70.211)  25.099 ms  25.484 ms
14 *

```

Figura 23: Testes no servidor www.japan.go.jp, no dia 23/07/2024, às 7h30.

1.6 Testes do dia 23/07/2024, às 13h30:

```

C:\Users\1vito>ping inf.unioeste.br

Disparando inf.unioeste.br [131.255.86.19] com 32 bytes de dados:
Resposta de 131.255.86.19: bytes=32 tempo=25ms TTL=61
Resposta de 131.255.86.19: bytes=32 tempo=6ms TTL=61
C:\Users\1vito>tracert inf.unioeste.br

Rastreando a rota para inf.unioeste.br [131.255.86.19]
com no máximo 30 saltos:

 1      8 ms      12 ms      3 ms  10.81.128.1
 2     12 ms       1 ms      5 ms  10.81.251.10
 3     10 ms       7 ms      4 ms  10.88.250.251
 4      3 ms       4 ms      2 ms  www.inf.unioeste.br [131.255.86.19]

Rastreamento concluído.

```

Figura 24: Testes no servidor inf.unioeste.br, no dia 23/07/2024, às 13h30.

```
C:\Users\1vito>ping info.gouv.fr

Disparando info.gouv.fr [217.70.184.55] com 32 bytes de dados:
Resposta de 217.70.184.55: bytes=32 tempo=219ms TTL=50
Resposta de 217.70.184.55: bytes=32 tempo=218ms TTL=50

C:\Users\1vito>tracert info.gouv.fr

Rastreando a rota para info.gouv.fr [217.70.184.55]
com no máximo 30 saltos:

 1    5 ms    3 ms    4 ms  10.81.128.1
 2    2 ms    2 ms    1 ms  10.81.251.10
 3    2 ms    2 ms    2 ms  131.255.84.9
 4   13 ms   12 ms   12 ms  ae0.pr-pop-br-rt-ufpr-cp-1.ger.pop-pr.rnp.br [200.238.138.129]
 5   25 ms   15 ms   12 ms  cpr1-bpr1.bkb.rnp.br [170.79.214.60]
 6   20 ms   19 ms   19 ms  csp2-cpr1-tlb.bkb.rnp.br [170.79.213.108]
 7   61 ms   60 ms   61 ms  cce2-sp2-tisparkle.bkb.rnp.br [170.79.213.2]
 8  124 ms  125 ms  125 ms  mia2-cce2-monet.bkb.rnp.br [170.79.213.47]
 9  127 ms  127 ms  128 ms  xe-3-3-0-1.a03.miamfl02.us.bb.gin.ntt.net [129.250.202.93]
10  128 ms  127 ms  125 ms  ae-3.r23.miamfl02.us.bb.gin.ntt.net [129.250.7.47]
11  150 ms  152 ms  150 ms  ae-4.r24.asbnva02.us.bb.gin.ntt.net [129.250.2.86]
12  150 ms  151 ms  152 ms  ae-0.a05.asbnva02.us.bb.gin.ntt.net [129.250.3.242]
13  154 ms  139 ms  144 ms  ae-0.f5-networks.asbnva02.us.bb.gin.ntt.net [128.241.9.81]
14    *      *      *      Esgotado o tempo limite do pedido.
15    *      *      *      Esgotado o tempo limite do pedido.
16    *      *      *      Esgotado o tempo limite do pedido.
17  217 ms  217 ms  216 ms  et18-1.core-2.csd4.gandi.net [173.246.102.3]
18  218 ms  218 ms  225 ms  et53-1.core-1.sd4.gandi.net [173.246.102.5]
19    *      *      *      Esgotado o tempo limite do pedido.
20  216 ms  218 ms  217 ms  webredir.gandi.net [217.70.184.55]

Rastreamento concluído.
```

Figura 25: Testes no servidor info.gouv.fr, no dia 23/07/2024, às 13h30.

```
C:\Users\1vito>tracert japan.go.jp

Rastreando a rota para japan.go.jp [3.164.6.53]
com no máximo 30 saltos:

 1    3 ms    3 ms    3 ms  10.81.128.1
 2    3 ms    2 ms    5 ms  10.81.251.10
 3    6 ms   57 ms    2 ms  131.255.84.9
 4   28 ms   13 ms   12 ms  ae0.pr-pop-br-rt-ufpr-cp-1.ger.pop-pr.rnp.br [200.238.138.129]
 5   15 ms   13 ms   13 ms  cpr1-bpr1.bkb.rnp.br [170.79.214.60]
 6   19 ms   18 ms  134 ms  170.79.213.207
 7   19 ms   19 ms   18 ms  as16509.saopaulo.sp.ix.br [187.16.221.99]
 8    *      *      *      Esgotado o tempo limite do pedido.
 9    *      *      *      Esgotado o tempo limite do pedido.
10   22 ms   23 ms   21 ms  177.72.240.193
11    *      *      *      Esgotado o tempo limite do pedido.
12    *      *      *      Esgotado o tempo limite do pedido.
13    *      *      *      Esgotado o tempo limite do pedido.
14    *      *      *      Esgotado o tempo limite do pedido.
15    *      *      *      Esgotado o tempo limite do pedido.
16    *      *      *      Esgotado o tempo limite do pedido.
17   20 ms   19 ms   19 ms  server-3-164-6-53.gru1.r.cloudfront.net [3.164.6.53]

Rastreamento concluído.

C:\Users\1vito>ping japan.go.jp

Disparando japan.go.jp [3.164.6.53] com 32 bytes de dados:
Resposta de 3.164.6.53: bytes=32 tempo=23ms TTL=247
Resposta de 3.164.6.53: bytes=32 tempo=20ms TTL=247
```

Figura 26: Testes no servidor www.japan.go.jp, no dia 23/07/2024, às 13h30.

1.7 Testes do dia 23/07/2024, às 19h30:

```
radajaaj@roboroto:~                                         Unioes... File Ma... [VITOR... MX Us...
$ ping inf.unioeste.br
PING inf.unioeste.br (131.255.86.19) 56(84) bytes of data.
64 bytes from 19-86-255-131.unioeste.br (131.255.86.19): icmp_seq=1 ttl=56 time=11.7 ms
64 bytes from inf.unioeste.br (131.255.86.19): icmp_seq=2 ttl=56 time=5.59 ms
^C
-- inf.unioeste.br ping statistics --
2 packets transmitted, 2 received, 0% packet loss, time 1441ms
rtt min/avg/max/mdev = 5.586/8.657/11.728/3.071 ms
radajaaj@roboroto:~
$ traceroute inf.unioeste.br
traceroute to inf.unioeste.br (131.255.86.19), 30 hops max, 60 byte packets
1 _gateway (192.168.1.1) 4.327 ms 3.321 ms 3.408 ms
2 45-5-196-1.rpnet.net.br (45.5.196.1) 7.899 ms 10.969 ms 8.147 ms
3 198.18.0.1 (198.18.0.1) 9.541 ms 9.394 ms 9.268 ms
4 198.18.0.33 (198.18.0.33) 6.368 ms 6.227 ms 6.098 ms
5 198.18.0.29 (198.18.0.29) 12.641 ms 12.513 ms 12.381 ms
6 as264471.cascavel.pr.rix.br (45.227.3.18) 6.709 ms 6.630 ms 6.383 ms
7 * * *
```

Figura 27: Testes no servidor inf.unioeste.br, no dia 23/07/2024, às 19h30.

```
radajaaj@roboroto:~                                         Unioes... File Ma... [VITOR... MX Us... FAQ
$ ping info.gouv.fr
PING info.gouv.fr (217.70.184.55) 56(84) bytes of data.
64 bytes from webredir.gandi.net (217.70.184.55): icmp_seq=1 ttl=50 time=305 ms
64 bytes from webredir.gandi.net (217.70.184.55): icmp_seq=2 ttl=50 time=303 ms
^C
-- info.gouv.fr ping statistics --
2 packets transmitted, 2 received, 0% packet loss, time 1128ms
rtt min/avg/max/mdev = 302.700/303.645/304.591/0.945 ms
radajaaj@roboroto:~
$ traceroute info.gouv.fr
traceroute to info.gouv.fr (217.70.184.55), 30 hops max, 60 byte packets
1 _gateway (192.168.1.1) 4.463 ms 3.886 ms 3.665 ms
2 45-5-196-1.rpnet.net.br (45.5.196.1) 9.212 ms 9.003 ms 8.801 ms
3 198.18.0.1 (198.18.0.1) 8.597 ms 8.393 ms 8.303 ms
4 198.18.0.33 (198.18.0.33) 7.973 ms 7.765 ms 7.558 ms
5 198.18.0.29 (198.18.0.29) 8.437 ms 8.220 ms 7.129 ms
6 Bundle-Ether20.2175.static.gvt.net.br (177.135.126.60) 8.454 ms 8.307 ms 7.597 ms
7 152-255-173-50.user.vivozap.com.br (152.255.173.50) 19.364 ms 152-255-142-10.user.vivozap.com.b
r (152.255.142.10) 15.451 ms 152-255-130-74.user.vivozap.com.br (152.255.130.74) 17.674 ms
8 152-255-161-167.user.vivozap.com.br (152.255.161.167) 22.117 ms 21.564 ms 22.319 ms
9 187-100-57-113.dsl.telesp.net.br (187.100.57.113) 24.410 ms 28.979 ms 31.612 ms
10 * * *
11 84.16.7.228 (84.16.7.228) 34.188 ms 32.618 ms 30.706 ms
12 * * 5.53.3.136 (5.53.3.136) 26.789 ms
13 ntt-ae5-0-grtsaotm3.net.telefonicaglobalsolutions.com (213.140.53.51) 38.174 ms 37.200 ms 34.
687 ms
14 ae-0.f5-networks.sapnbr02.br.bb.gin.ntt.net (200.15.9.25) 33.205 ms 29.419 ms 32.692 ms
15 100.99.0.79 (100.99.0.79) 156.958 ms 158.100 ms 157.105 ms
16 100.99.0.246 (100.99.0.246) 263.197 ms 262.951 ms 262.770 ms
17 100.99.0.140 (100.99.0.140) 262.518 ms 211.927 ms 211.128 ms
18 100.99.0.132 (100.99.0.132) 214.432 ms 213.815 ms 218.807 ms
19 * * *
20 * * *
```

Figura 28: Testes no servidor info.gouv.fr, no dia 23/07/2024, às 19h30.

```

radajaaj@roboroto:~
$ ping www.japan.go.jp
PING www.japan.go.jp (108.158.147.2) 56(84) bytes of data.
64 bytes from server-108-158-147-2.gru3.r.cloudfront.net (108.158.147.2): icmp_seq=1 ttl=244 time=25
.4 ms
64 bytes from server-108-158-147-2.gru3.r.cloudfront.net (108.158.147.2): icmp_seq=2 ttl=244 time=35
.4 ms
^C
--- www.japan.go.jp ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1060ms
rtt min/avg/max/mdev = 25.368/30.400/35.433/5.032 ms
radajaaj@roboroto:~
$ traceroute www.japan.go.jp
traceroute to www.japan.go.jp (108.158.147.32), 30 hops max, 60 byte packets
 1 _gateway (192.168.1.1)  4.039 ms  2.764 ms  1.994 ms
 2 45-5-196-1.rpnet.net.br (45.5.196.1)  5.165 ms *  6.948 ms
 3 198.18.0.1 (198.18.0.1)  6.309 ms *  15.362 ms
 4 198.18.0.33 (198.18.0.33)  11.817 ms  11.259 ms  10.368 ms
 5 198.18.0.29 (198.18.0.29)  11.349 ms  10.369 ms  9.760 ms
 6 Bundle-Ether20.2175.static.gvt.net.br (177.135.126.60)  9.222 ms  8.945 ms  7.322 ms
 7 * * *
 8 * * *
 9 * * *
10 * * *
11 * * *
12 * * *
13 * 150.222.70.219 (150.222.70.219)  26.583 ms 150.222.70.218 (150.222.70.218)  24.539 ms

```

Figura 29: Testes no servidor www.japan.go.jp, no dia 23/07/2024, às 19h30.

1.8 Testes do dia 24/07/2024, às 7h30:

```

radajaaj@roboroto:~
$ ping inf.unioeste.br
PING inf.unioeste.br (131.255.86.19) 56(84) bytes of data.
64 bytes from www.inf.unioeste.br (131.255.86.19): icmp_seq=1 ttl=56 time=5.34 ms
64 bytes from www.inf.unioeste.br (131.255.86.19): icmp_seq=2 ttl=56 time=10.0 ms
^C
--- inf.unioeste.br ping statistics ---
3 packets transmitted, 2 received, 33.3333% packet loss, time 2003ms
rtt min/avg/max/mdev = 5.339/7.689/10.039/2.350 ms
radajaaj@roboroto:~
$ traceroute inf.unioeste.br
traceroute to inf.unioeste.br (131.255.86.19), 30 hops max, 60 byte packets
 1 _gateway (192.168.1.1)  2.049 ms  1.699 ms  2.086 ms
 2 45-5-196-1.rpnet.net.br (45.5.196.1)  6.086 ms  6.535 ms  6.076 ms
 3 198.18.0.1 (198.18.0.1)  6.516 ms  6.363 ms  8.378 ms
 4 198.18.0.33 (198.18.0.33)  4.743 ms  4.545 ms  4.397 ms
 5 198.18.0.29 (198.18.0.29)  15.123 ms  14.923 ms  14.748 ms
 6 as264471.cascavel.pr.ix.br (45.227.3.18)  14.542 ms  7.213 ms  5.980 ms

```

Figura 30: Testes no servidor inf.unioeste.br, no dia 24/07/2024, às 7h30.

```

radajaaj@roboroto:~
$ ping info.gouv.fr
PING info.gouv.fr (217.70.184.55) 56(84) bytes of data.
64 bytes from webredir.gandi.net (217.70.184.55): icmp_seq=1 ttl=50 time=250 ms
64 bytes from webredir.gandi.net (217.70.184.55): icmp_seq=2 ttl=50 time=270 ms
^C
--- info.gouv.fr ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1003ms
rtt min/avg/max/mdev = 249.724/260.072/270.421/10.348 ms
radajaaj@roboroto:~
$ traceroute info.gouv.fr
traceroute to info.gouv.fr (217.70.184.55), 30 hops max, 60 byte packets
 1 _gateway (192.168.1.1)  4.652 ms  4.129 ms  3.959 ms
 2 45-5-196-1.rpnet.net.br (45.5.196.1)  7.557 ms  7.139 ms  6.932 ms
 3 198.18.0.1 (198.18.0.1)  6.771 ms  7.759 ms  7.536 ms
 4 198.18.0.33 (198.18.0.33)  4.715 ms  5.162 ms  5.950 ms
 5 198.18.0.29 (198.18.0.29)  6.972 ms  7.431 ms  7.211 ms
 6 Bundle-Ether20.2175.static.gvt.net.br (177.135.126.60)  6.379 ms  9.380 ms  8.622 ms
 7 152-255-130-72.user.vivozap.com.br (152.255.130.72)  10.002 ms 152-255-142-14.user.vivozap.com.br (152.255.142.14)  10.855 ms 152-255-173-50.user.vivozap.com.br (152.255.173.50)  10.532 ms
 8 152-255-161-167.user.vivozap.com.br (152.255.161.167)  23.308 ms  24.499 ms  22.949 ms
 9 187-100-57-113.dsl.telesp.net.br (187.100.57.113)  25.193 ms 187-100-57-107.dsl.telesp.net.br (187.100.57.107)  25.719 ms  24.878 ms
10 * * *
11 84.16.7.228 (84.16.7.228)  27.247 ms  28.901 ms  27.311 ms
12 94.142.97.247 (94.142.97.247)  25.289 ms * *
13 ntt-ae5-0-grtsaotm3.net.telefonicaglobalsolutions.com (213.140.53.51)  29.065 ms  31.534 ms  31.255 ms
14 ae-0.f5-networks.sapnbr02.br.bb.gin.ntt.net (200.15.9.25)  23.442 ms  23.601 ms  22.501 ms
15 100.99.1.41 (100.99.1.41)  22.341 ms  22.216 ms  21.999 ms
16 100.99.0.153 (100.99.0.153)  135.140 ms  136.734 ms  136.197 ms
17 100.99.0.24 (100.99.0.24)  135.133 ms  141.037 ms  134.664 ms
18 100.99.0.37 (100.99.0.37)  219.370 ms  221.091 ms  220.105 ms

```



Figura 31: Testes no servidor info.gouv.fr, no dia 24/07/2024, às 7h30.

```

radajaaj@roboroto:~
$ ping www.japan.go.jp
PING www.japan.go.jp (108.139.182.12) 56(84) bytes of data.
64 bytes from server-108-139-182-12.gru3.r.cloudfront.net (108.139.182.12): icmp_seq=1 ttl=244 time=23.4 ms
64 bytes from server-108-139-182-12.gru3.r.cloudfront.net (108.139.182.12): icmp_seq=2 ttl=244 time=24.0 ms
^C
--- www.japan.go.jp ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1001ms
rtt min/avg/max/mdev = 23.433/23.697/23.962/0.264 ms
radajaaj@roboroto:~
$ traceroute www.japan.go.jp
traceroute to www.japan.go.jp (108.139.182.12), 30 hops max, 60 byte packets
 1 _gateway (192.168.1.1)  2.266 ms  1.466 ms  3.835 ms
 2 45-5-196-1.rpnet.net.br (45.5.196.1)  6.757 ms  6.175 ms  6.679 ms
 3 198.18.0.1 (198.18.0.1)  4.902 ms  4.278 ms  4.758 ms
 4 198.18.0.33 (198.18.0.33)  3.079 ms  3.239 ms  9.127 ms
 5 198.18.0.29 (198.18.0.29)  8.494 ms  6.085 ms  5.494 ms
 6 Bundle-Ether20.2175.static.gvt.net.br (177.135.126.60)  4.963 ms  6.413 ms  5.425 ms
 7 * * *
 8 * * *
 9 * * *
10 * * *
11 * * *
12 * * *
13 150.222.70.211 (150.222.70.211)  23.552 ms  23.009 ms 150.222.70.210 (150.222.70.210)  22.270 ms

```

Figura 32: Testes no servidor www.japan.go.jp, no dia 24/07/2024, às 7h30.

1.9 Testes do dia 24/07/2024, às 13h30:

```
C:\Users\1vito>ping inf.unioeste.br

Disparando inf.unioeste.br [131.255.86.19] com 32 bytes de dados:
Resposta de 131.255.86.19: bytes=32 tempo=3ms TTL=61
Resposta de 131.255.86.19: bytes=32 tempo=3ms TTL=61

C:\Users\1vito>tracert inf.unioeste.br

Rastreando a rota para inf.unioeste.br [131.255.86.19]
com no máximo 30 saltos:

 1    83 ms      34 ms      63 ms  10.81.128.1
 2      2 ms      2 ms      2 ms  10.81.251.10
 3      8 ms      3 ms      3 ms  10.88.250.251
 4      3 ms      2 ms      2 ms  inf.unioeste.br [131.255.86.19]

Rastreamento concluído.
```

Figura 33: Testes no servidor inf.unioeste.br, no dia 24/07/2024, às 13h30.

```
C:\Users\1vito>ping info.gouv.fr

Disparando info.gouv.fr [217.70.184.55] com 32 bytes de dados:
Resposta de 217.70.184.55: bytes=32 tempo=219ms TTL=50
Resposta de 217.70.184.55: bytes=32 tempo=217ms TTL=50

C:\Users\1vito>tracert info.gouv.fr

Rastreando a rota para info.gouv.fr [217.70.184.55]
com no máximo 30 saltos:

 1    13 ms      45 ms      4 ms   10.81.128.1
 2      2 ms      2 ms      2 ms  10.81.251.10
 3      4 ms      2 ms      2 ms  131.255.84.9
 4    14 ms     12 ms     14 ms  ae0.pr-pop-br-rt-ufpr-cp-1.ger.pop-pr.rnp.br [200.238.138.129]
 5    16 ms     17 ms     17 ms  cpr1-bpr1.bkb.rnp.br [170.79.214.60]
 6    24 ms     24 ms     43 ms  csp2-cpr1-tlb.bkb.rnp.br [170.79.213.108]
 7    60 ms     59 ms     60 ms  cce2-sp2-tisparkle.bkb.rnp.br [170.79.213.2]
 8   125 ms    123 ms    129 ms  mia2-cce2-monet.bkb.rnp.br [170.79.213.47]
 9   131 ms    133 ms    130 ms  xe-3-3-0-1.a03.miamfl02.us.bb.gin.ntt.net [129.250.202.93]
10   159 ms    126 ms    155 ms  ae-3:r23.miamfl02.us.bb.gin.ntt.net [129.250.7.47]
11   178 ms    159 ms    148 ms  ae-4:r24.asbnva02.us.bb.gin.ntt.net [129.250.2.86]
12   152 ms    184 ms    151 ms  ae-0.a05.asbnva02.us.bb.gin.ntt.net [129.250.3.242]
13   140 ms    139 ms    145 ms  ae-0.f5-networks.asbnva02.us.bb.gin.ntt.net [128.241.9.81]
14      *        *        *      Esgotado o tempo limite do pedido.
15      *        *        *      Esgotado o tempo limite do pedido.
16      *        *        *      Esgotado o tempo limite do pedido.
17   220 ms    216 ms    216 ms  et18-1.core-2.csd4.gandi.net [173.246.102.3]
18   216 ms    217 ms    221 ms  et53-1.core-1.sd4.gandi.net [173.246.102.5]
19      *        *        *      Esgotado o tempo limite do pedido.
20   217 ms    218 ms    218 ms  webredir.gandi.net [217.70.184.55]

Rastreamento concluído.
```

Figura 34: Testes no servidor info.gouv.fr, no dia 24/07/2024, às 13h30.

```

PS C:\Users\1vito> ping www.japan.go.jp
Disparando www.japan.go.jp [18.67.145.124] com 32 bytes de dados:
Resposta de 18.67.145.124: bytes=32 tempo=18ms TTL=247
Resposta de 18.67.145.124: bytes=32 tempo=18ms TTL=247

PS C:\Users\1vito> tracert www.japan.go.jp
Rastreando a rota para www.japan.go.jp [18.67.145.124]
com no máximo 30 saltos:

  1     9 ms      2 ms      6 ms  10.81.128.1
  2     2 ms      11 ms     5 ms  10.81.251.10
  3     7 ms      3 ms      3 ms  131.255.84.9
  4    12 ms      12 ms     12 ms  ae0.pr-pop-br-rt-ufpr-cp-1.ger.pop-pr.rnp.br [200.238.138.129]
  5    16 ms      16 ms     13 ms  cpr1-bpr1.bkb.rnp.br [170.79.214.60]
  6    27 ms      19 ms     20 ms  170.79.213.207
  7   63 ms      18 ms     18 ms  as16509.saopaulo.sp.ix.br [187.16.217.163]
  8     *         *         *       Esgotado o tempo limite do pedido.
  9     *         *         *       Esgotado o tempo limite do pedido.
 10    *         *         *       Esgotado o tempo limite do pedido.
 11    *         *         *       Esgotado o tempo limite do pedido.
 12    *         *         *       Esgotado o tempo limite do pedido.
 13    *         *         *       Esgotado o tempo limite do pedido.
 14   18 ms      18 ms     18 ms  server-18-67-145-124.gru1.r.cloudfront.net [18.67.145.124]

Rastreamento concluído.

```

Figura 35: Testes no servidor www.japan.go.jp, no dia 24/07/2024, às 13h30.

2. INTERPRETAÇÃO DOS RESULTADOS

As figuras acima foram analisadas e interpretadas, e os resultados podem ser facilmente consultados na tabela abaixo.

<u>Localização</u>	<u>Horário</u>	<u>Saltos</u>			<u>Latência (ms)</u>		
Rede Brasileira	7h30	6	6	6	15	6	8
	13h30	6	4	4	7	6	3
	19h30	6	6	6	16	5	8
	Média	5,55			8,22		
Rede Francesa	7h30	18	18	16	250	280	260
	13h30	20	20	18	250	220	218
	19h30	18	18	16	215	230	300
	Média	18			247		
Rede Japonesa	7h30	13	13	16	23	32	23
	13h30	14	17	13	24	23	18
	19h30	13	13	16	20	24	30
	Média	14,4			24,11		