1

|  |  |
| --- | --- |
| Google.com | 4/26/21 |
| Time1 | 18.142 |
| Time2 | 26.246 |
| Time3 | 25.937 |
| Time4 | 23.27 |
| Time5 | 25.74 |
| Time6 | 24.665 |
| AVERAGE | 24 |
|  |  |
|  |  |
| Harvard.edu | 4/26/21 |
| Time1 | 17.296 |
| Time2 | 26.39 |
| Time3 | 27.186 |
| Time4 | 24.688 |
| Time5 | 26.18 |
| Time6 | 26.163 |
| Average | 24.6505 |
|  |  |
|  |  |
| bsu.by | 4/26/21 |
| Time1 | 167.333 |
| Time2 | 185.438 |
| Time3 | 174.114 |
| Time4 | 182.61 |
| Time5 | 173.494 |
| Time6 | 174.234 |
| Average | 176.203833 |
|  |  |
|  |  |
| iitd.ac.in | 4/26/21 |
| Time1 | 330.477 |
| Time2 | 350.54 |
| Time3 | 369.42 |
| Time4 | 388.678 |
| Time5 | 304.603 |
| Time6 | 327.962 |
| Average | 345.28 |
|  |  |
| baidu.com | 4/26/21 |
| Time1 | 339.104 |
| Time2 | 237.741 |
| Time3 | 238.941 |
| Time4 | 237.561 |
| Time5 | 237.9 |
| Time6 | 341.949 |
| Average | 272.199333 |

2.1 It takes 64 hops to reach google.com. 8 hops are completed before the first line that starts with \*

2.2 first 7 hops are the same for both google.com and bsu.by

3.3

(base) $ nslookup Ip.com

Server: 172.16.32.16

Address: 172.16.32.16#53

Non-authoritative answer:

Name: Ip.com

Address: 64.111.96.109

(base) $ nslookup nola.com

Server: 172.16.32.16

Address: 172.16.32.16#53

Non-authoritative answer:

Name: nola.com

Address: 192.104.183.209

Name: nola.com

Address: 192.104.183.109

(base) $ nslookup 129.81.224.95

Server: 172.16.32.16

Address: 172.16.32.16#53

95.224.81.129.in-addr.arpa name = www.ohr.tulane.edu.

(base) $ nslookup 204.232.156.229

Server: 172.16.32.16

Address: 172.16.32.16#53

Non-authoritative answer:

229.156.232.204.in-addr.arpa name = biziis01mail.bizzuka.com.

Authoritative answers can be found from:

204.in-addr.arpa nameserver = r.arin.net.

204.in-addr.arpa nameserver = arin.authdns.ripe.net.

204.in-addr.arpa nameserver = u.arin.net.

204.in-addr.arpa nameserver = y.arin.net.

204.in-addr.arpa nameserver = z.arin.net.

204.in-addr.arpa nameserver = x.arin.net.

x.arin.net internet address = 199.180.180.63

y.arin.net internet address = 192.82.134.30

z.arin.net internet address = 199.212.0.63

r.arin.net has AAAA address 2001:500:f0::63

u.arin.net has AAAA address 2001:500:14:6050:ad::1

z.arin.net has AAAA address 2001:500:13::63

arin.authdns.ripe.net has AAAA address 2001:67c:e0::10

4.1 that is the port number

4.2Text

Description automatically generated

5.1

IPv4:10.129.154.153

5.2

IPv6: fe80::8e9:33dc:7388:55b2

5.3

My Subnetmask: 0xfffffe00(255.255.255.224)

5.4

A subnet mask is a number that defines a range of IP addresses available within a network

Subnet number=10.129.154.128