

Networks Assignment

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1 Tier 1 and Tier 2 ISPs

Tier 1 Although there is no authority that defines tiers of networks participating in the Internet, the most common definition of a tier 1 network is one that can reach every other network on the Internet without purchasing IP transit or paying settlements.

Companies:

1. ATT
2. Verizon
3. Sprint (Softbank Broadband)
4. Century Link (Qwest)
5. Level 3 (with Global Crossing now)
6. NTT/Verio
7. Cogent (maybe?)
8. Bharti
9. Reliance
10. Tata

11. VSNL

Tier 2

A network that peers with some networks, but still purchases IP transit or pays settlements to reach at least some portion of the Internet.

Companies:

1. Headstrong
2. Microland
3. MindTree
4. MphasiS
5. Sonata Software.

Tier 3

A network that solely purchases transit from other networks to reach the Internet. Companies:

1. CCS out of Austin, Texas
2. Rt. 66 Internet in New Mexico
3. Quik Internet in New Jersey

Source : <https://secure.dslreports.com/forum/r24946459-What-is-a-Tier-1-2-and-3-service-provider->

2 What is RFC?

3 nslookup for 5 hosts

```
~/networks-assignment(branch:master*) » nslookup www.google.com
Server:      192.168.1.1
Address:     192.168.1.1#53

Non-authoritative answer:
Name:   www.google.com
Address: 74.125.235.17
Name:   www.google.com
Address: 74.125.235.20
Name:   www.google.com
Address: 74.125.235.16
Name:   www.google.com
Address: 74.125.235.18
Name:   www.google.com
Address: 74.125.235.19
```

Figure 1: google

```
~/networks-assignment(branch:master*) » nslookup www.duckduckgo.com
Server:      192.168.1.1
Address:     192.168.1.1#53

Non-authoritative answer:
www.duckduckgo.com canonical name = duckduckgo.com.
Name:   duckduckgo.com
Address: 46.51.216.186
```

Figure 2: duckduckgo

```
~/networks-assignment(branch:master*) » nslookup www.joindiaspora.com
Server:      192.168.1.1
Address:     192.168.1.1#53

Non-authoritative answer:
www.joindiaspora.com canonical name = akita-2665.herokuapp.com.
akita-2665.herokuapp.com canonical name = elb001808-2103193605.us-east-1-
elb.amazonaws.com.
Name:   elb001808-2103193605.us-east-1.elb.amazonaws.com
Address: 23.23.127.115
Name:   elb001808-2103193605.us-east-1.elb.amazonaws.com
Address: 54.225.234.87
Name:   elb001808-2103193605.us-east-1.elb.amazonaws.com
Address: 107.21.94.218
```

Figure 3: joindiaspora

```
~/networks-assignment(branch:master*) » nslookup www.prashant.org.in
Server:      192.168.1.1
Address:     192.168.1.1#53

Non-authoritative answer:
Name:   www.prashant.org.in
Address: 27.124.125.18
```

Figure 4: My site

```
~/networks-assignment(branch:master*) » nslookup www.donttrack.us
Server:      192.168.1.1
Address:     192.168.1.1#53

Non-authoritative answer:
www.donttrack.us    canonical name = donttrack.us.
Name:   donttrack.us
Address: 184.72.106.52
```

Figure 5: dont track us