

The Peering Database

The <https://www.peeringdb.com/> is a freely available, user-maintained database of networks which take part in the global Internet. It is considered the authoritative source of all information relating to network operators who participate in peering around the world.

The database facilitates the global interconnection of networks at Internet Exchange Points (IXPs), data centres, and other interconnection facilities, and is the first stop in making interconnection decisions.

Background

In the early Internet (of the 1990s) there were few network operators and interconnect points around the world that interconnections were relatively straightforward to seek out and implement (in the author's experience anyway). In March 1999 there were 4640 ASNs in the Internet with only 800 providing transit. This compares with today's total exceeding 73000 ASNs and over 10000 ASNs providing transit, never mind that almost every country in the world now has at least one Internet Exchange Point if not a datacentre facilitating commercial interconnects.

In the 1990s establishing new interconnects by attending in major Internet operations meetings (NANOG, RIPE, AfNOG, APRICOT and so on), with network information passed on by word of mouth or email or even by letter!

With the rapid growth of the Internet in the late 1990s and early 2000s, there needed to be a more scalable way for a Network Operator to get their "peering information" out to the global Internet operations community. And hence the PeeringDB was born.

What is the Peering DB

The Peering DB is a repository of the important information that network operators need to determine whether an interconnection is feasible, makes commercial sense, makes technical sense, and is even technically feasible. While the Peering DB website has much more detailed information, the Peering Toolbox is highlighting the key points.

Here are some example entries to show what is possible. The first example (publicly accessible) is of LINX, the London Internet Exchange:

PeeringDB Silver Sponsor

Search here for a network, IX, or facility. [Advanced Search](#)

LINX LON1 Silver Sponsor

| Peers | Connections | Open Peers | Total Speed | % with IPv6 |
|-------|-------------|------------|-------------|-------------|
| 811 | 913 | 508 | 36.2T | 85 |

Organization LINX

| | |
|--------------------|-------------------------------|
| Also Known As | London Internet Exchange Ltd. |
| Long Name | London |
| City | London |
| Country | GB |
| Continental Region | Europe |
| Media Type | Ethernet |
| Service Level | Not Disclosed |
| Terms | Not Disclosed |
| Last Updated | 2020-06-29T07:53:16Z |
| Notes | used to be Juniper LAN |

[Translate >](#)

Contact Information

| | |
|-----------------------|---|
| Company Website | https://www.linx.net/ |
| Traffic Stats Website | https://portal.linx.net/ |
| Technical Email | support@linx.net |
| Technical Phone | +44 207 292 1111 |
| Policy Email | info@linx.net |
| Policy Phone | +44 207 292 1111 |
| Sales Email | |
| Sales Phone | +44 207 292 1111 |
| Health Check | |

LAN

| | |
|------------------------|-------------------------|
| MTU | 1500 |
| IX-F Member Export URL | Private |
| Visibility | |

Peers at this Exchange Point

| Peer Name | ASN | Speed | Policy |
|--------------------------------|-------------------|-------|-----------|
| (as) networks | 33920 | 2G | Selective |
| 195.66.225.115 | 2001:7B:4::8480:1 | | |
| 912 Telecom (0111) | 201033 | 10G | Open |
| | 195.66.227.214 | | |
| 2001:7B:4::3:14cd:1 | | | |
| 912 Smile Telecom | 9116 | 10G | Open |
| 195.66.225.114 | 2001:7B:4::239a:1 | | |
| 912 Smile Telecom | 9116 | 10G | Open |
| 195.66.226.60 | 2001:7B:4::239a:2 | | |
| 16.1 Versatel Deutschland GmbH | 8881 | 100G | Selective |
| | 195.66.224.246 | | |
| 2001:7B:4::22b1:1 | | | |
| 100 Percent IT | 20915 | 1G | Open |
| 195.66.225.213 | 2001:7B:4::51b3:1 | | |
| 23M GmbH | 47447 | 10G | Open |
| | 195.66.227.70 | | |
| 2001:7B:4::b957:1 | | | |
| 24Shells Inc | 59061 | 10G | Open |
| | 195.66.227.116 | | |
| 2001:7B:4::d729:1 | | | |
| 31173 Services AB | 39351 | 10G | Open |
| | 195.66.226.62 | | |
| 2001:7B:4::99b7:1 | | | |
| 4D Data Centres Ltd | 31463 | 10G | Selective |
| | 195.66.226.62 | | |

which shows a screen capture of what is available at their LON1 site, a scrollable list of the participants, how to contact LINX, etc.

The second example below shows that of a AWS (Amazon Web Services), one of the major networks on the Internet:

PeeringDB Diamond Sponsor

Search here for a network, IX, or facility. [Advanced Search](#)

Amazon.com Diamond Sponsor

| | |
|-------------------------------|---|
| Organization | Amazon.com |
| Also Known As | Amazon Web Services |
| Long Name | |
| Company Website | http://www.amazon.com |
| ASN | 16509 |
| IRR as-ex/route-set | AS-AMAZON |
| Route Server URL | |
| Locking Glass URL | |
| Network Type | Enterprise |
| IPv4 Prefixes | 7500 |
| IPv6 Prefixes | 2500 |
| Traffic Levels | Not Disclosed |
| Traffic Ratios | Balanced |
| Geographic Scope | Global |
| Protocols Supported | <input checked="" type="checkbox"/> Unicast IPv4 <input type="checkbox"/> Multicast <input checked="" type="checkbox"/> IPv6 <input checked="" type="checkbox"/> Never via route servers |
| Last Updated | 2022-03-14T23:46:18Z |
| Public Peering Info Updated | 2022-04-27T20:49:30 |
| Peering Facility Info Updated | 2022-03-28T23:36:40 |
| Contact Info Updated | 2020-12-01T12:29:55Z |
| Notes | <p>AWS Peering: https://peering.aws/</p> <p>Peering requests:</p> <p>When submitting a peering request, please address the specific regional contact listed below for the location of your request (i.e. peering requests for London should use peering-email@amazon.com while peering requests for Singapore should use peering-apac@amazon.com). This will ensure your request is processed and addressed in a timely fashion. Please do not copy contacts not meant for peering policy in the location of your request.</p> <p>Operational issues:</p> <p>If you experience connectivity issues to Amazon, please</p> |

Public Peering Exchange Points

| Exchange | ASN | Speed | RS Peer |
|----------------------|---------------------------------|-------|-----------------------|
| AKL-IX (Auckland NZ) | 16509 | 100G | <input type="radio"/> |
| 43.243.21.113 | 2001:7fa:11:6::407d:0:2 | | |
| AKL-IX (Auckland NZ) | 16509 | 100G | <input type="radio"/> |
| 43.243.21.112 | 2001:7fa:11:6::407d:0:1 | | |
| AMS-IX | 16509 | 600G | <input type="radio"/> |
| 80.249.210.100 | 2001:7B:1::a501:6509:1 | | |
| AMS-IX | 16509 | 600G | <input type="radio"/> |
| 80.249.210.217 | 2001:7B:1::a501:6509:2 | | |
| AMS-IX Chicago | 16509 | 100G | <input type="radio"/> |
| 206.108.115.36 | 2001:504:38:1::a501:6509:1 | | |
| AMS-IX Hong Kong | 16509 | 10G | <input type="radio"/> |
| 103.247.138.10 | 2001:d0:296::a501:6509:1 | | |
| AMS-IX Hong Kong | 16509 | 10G | <input type="radio"/> |
| 103.247.139.74 | 2001:d0:296::a501:6509:2 | | |
| AMS-IX Mumbai | 16509 | 10G | <input type="radio"/> |
| 223.31.200.29 | 2001:a48:44:100b:0::a501:6509:2 | | |
| AMS-IX Mumbai | 16509 | 10G | <input type="radio"/> |
| 223.31.200.30 | 2001:a48:44:100b:0::a501:6509:1 | | |
| Any2Denver | 16509 | 100G | <input type="radio"/> |
| 206.51.48.87 | 2005:600:303:303::87 | | |
| Any2West | 16509 | 100G | <input type="radio"/> |
| 208.72.210.146 | 2001:504:13::146 | | |

Private Peering Facilities

| Facility | Country |
|--|--------------------------|
| ASN | City |
| 151 Front Street West Toronto | Canada |
| 16509 | Toronto |
| 165 Holsey Meet-Me Room | United States of America |
| 16509 | Newark |
| 35 John Street / 260 Front Street West | Canada |
| 16509 | Toronto |

This one shows the Public peering and Private peering facilities AWS is present at. So a potential peer

can check which locations they share with AWS, and then contact them about peering. The page for AWS contains data about number of prefixes, traffic ratios, etc, plus the IP addressing used at the various public Internet connect points. All this is designed to make it easier for prospective peers to assess and reach out to AWS for peering.

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From:

<https://bgp4all.com/pfs/> - Philip Smith's Internet Development Site



Permanent link:

https://bgp4all.com/pfs/peering-toolbox/the_peering_database?rev=1651812837

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