

# 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 step 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** Search here for a network, IX, or facility. efchina

**LINX LON1** Silver Sponsor

Peers: 811 | Connections: 913 | Open Peers: 998 | Total Speed: 36.2T | % with IPv6: 85

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

**Contact Information:**  
**Company Website:** https://www.linx.net/  
**Traffic Stats Website:** https://portal.linx.net/  
**Technical Email:** support@linx.net  
**Technical Phone:**  
**Policy Email:** info@linx.net  
**Policy Phone:**  
**Sales Email:**  
**Sales Phone:**  
**Health Check:**

**LAN:**  
**MTU:** 1500  
**IX-F Member Export URL:** Private  
**Visibility:**

**Peers at this Exchange Point**

Peer Name IPv4	ASN IPv6	Speed	Policy
(as) networks 195.66.225.115	33920 2001:7fb:4::8400:1	2G	Selective
01 Telecom (01.T) 2001:7fb:4::3:14cd:1	201603 195.66.227.214	10G	Open
012 Smile Telecom 195.66.225.114	9116 2001:7fb:4::239c:1	10G	Open
012 Smile Telecom 195.66.226.90	9116 2001:7fb:4::239c:2	10G	Open
1&1 Versatel Deutschland GmbH 2001:7fb:4::22b1:1	8881 195.66.224.245	100G	Selective
100 Percent IT 195.66.225.213	20915 2001:7fb:4::51b3:1	1G	Open
23M GmbH 2001:7fb:4::b957:1	47447 195.66.227.70	10G	Open
24Shells Inc 2001:7fb:4::d729:1	55061 195.66.227.116	10G	Open
31173 Services AB 2001:7fb:4::99b7:1	39351 195.66.226.62	10G	Open
4D Data Centres Ltd	31463	10G	Selective

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 content networks on the Internet:

**PeeringDB** Search here for a network, IX, or facility. amazon

**Amazon.com** Diamond Sponsor

Organization: Amazon.com  
 Also Known As: Amazon Web Services  
 Long Name:  
 Company Website: https://www.amazon.com  
 ASN: 16509  
 IRR as-set/route-set: AS-AMAZON  
 Route Server URL:  
 Locking Class URL:  
 Network Type: Enterprise  
 IPv4 Prefix: 7500  
 IPv6 Prefix: 2500  
 Traffic Levels: Not Disclosed  
 Traffic Ratios: Balanced  
 Geographic Scope: Global  
 Protocols Supported: Unicast IPv4, Multicast, IPv6, Never via route servers  
 Last Updated: 2022-03-14T23:48:18Z  
 Public Peering Info Updated: 2022-04-27T20:49:30  
 Peering Facility Info Updated: 2022-03-28T23:35:40  
 Contact Info Updated: 2020-12-01T12:29:55Z  
 Notes: AWS Peering: https://peering.aws/

**Public Peering Exchange Points**

Exchange IPv4	ASN IPv6	Speed	RS Peer
AKL-IX (Auckland NZ) 43.243.21.113	16509 2001:7fa:11:6:0:407d:0:2	100G	
AKL-IX (Auckland NZ) 43.243.21.112	16509 2001:7fa:11:6:0:407d:0:1	100G	
AMS-IX 80.249.210.100	16509 2001:7fb:1::a501:6509:1	600G	
AMS-IX 80.249.210.217	16509 2001:7fb:1::a501:6509:2	600G	
AMS-IX Chicago 206.100.115.36	16509 2001:504:30:1:0:a501:6509:1	100G	
AMS-IX Hong Kong 103.247.139.10	16509 2001:d0:296:a501:6509:1	10G	
AMS-IX Hong Kong 103.247.139.74	16509 2001:d0:296:a501:6509:2	10G	
AMS-IX Mumbai 223.31.200.29	16509 2001:a48:44:100b:0:a501:6509:2	10G	
AMS-IX Mumbai 223.31.200.30	16509 2001:a48:44:100b:0:a501:6509:1	10G	
Any2Denver 206.51.46.87	16509 2605:600:303:303:87	100G	
Any2West 206.72.210.146	16509 2001:504:13:146	100G	

**Private Peering Facilities**

Facility ASN	Country City
151 Front Street West Toronto	Canada Toronto
165 Halsey Meet-Me Room	United States of America Newark
35 John Street / 200 Front Street West	Canada Toronto

Operational issues: If you experience connectivity issues to Amazon, please

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:

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