

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:



Search here for a network, IP, or facility.

Advanced Search

Peers

811

Connections

913

Open Peers

508

Total Speed

39.2T

% 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

Translate

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

Filter

Peer Name IPv4	ASN IPv6	Speed	Policy
(as) networka 195.66.225.115	33920 2001:7fb:4::3480:1	2G	Selective
Q1 Telecom JLT	201933 195.66.227.214	10G	Open
2001:7fb:4::3:14cd:1			
Q12 Smile Telecom 195.66.225.114	9116 2001:7fb:4::239c:1	10G	Open
Q12 Smile Telecom 195.66.226.60	9116 2001:7fb:4::239c:2	10G	Open
1&T Versatel Deutschland GmbH 2001:7fb:4::22b1:1	8081 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 2001:7fb:4::17b:1	31463 195.66.226.112	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 networks on the Internet:

Search here for a network, IX, or facility.

[Advanced Search](#)

[About Us](#)

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Organization	Amazon.com
Also Known As	Amazon Web Services
Long Name	
Company Website	http://www.amazon.com
ASN	16509
IRR as-set/route-set	AS-AMAZON
Route Server URL	
Looking Glass URL	
Network Type	Enterprise
IPv4 Prefixes	7500
IPv6 Prefixes	2500
Traffic Levels	Not Disclosed
Traffic Ratio	Balanced
Geographic Scope	Global
Protocols Supported	Unicast IPv4 Multicast IPv6 Never via route servers
Last Updated	2022-03-14T23:46:18Z
Public Peering Info Updated	2022-04-27T20:49:30
Peering Facility Info Updated	2022-03-28T23:35:40
Contact Info Updated	2020-12-01T12:29:55Z
Notes	AWS Peering: https://peering.aws/

Peering requests:

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-emea@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.

Operational issues:

If you experience connectivity issues to Amazon, please

Public Peering Exchange Points

Exchange / IP v4	ASN IP v6	Speed	RS Peer
AKI-IX (Auckland NZ)	16509	100G	☒
43.243.21.113	2001:7fa:11:6:0:407d:0:2		
AKI-IX (Auckland NZ)	16509	100G	☒
43.243.21.112	2001:7fa:11:6:0:407d:0:1		
AMS-IX	16509	600G	☒
80.249.210.100	2001:7fb:1:a501:6509:1		
AMS-IX	16509	600G	☒
80.249.210.217	2001:7fb:1:a501:6509:2		
AMS-IX Chicago	16509	100G	☒
206.108.115.36	2001:504:3b:1:0:a501:6509:1		
AMS-IX Hong Kong	16509	10G	☒
103.247.139.10	2001:d0:296:a501:6509:1		
AMS-IX Hong Kong	16509	10G	☒
103.247.139.74	2001:d0:296:a501:6509:2		
AMS-IX Mumbai	16509	10G	☒
223.31.200.29	2001:e48:44:100b:0:a501:6509:2		
AMS-IX Mumbai	16509	10G	☒
223.31.200.30	2001:e48:44:100b:0:a501:6509:1		
Amy2Denver	16509	100G	☒
206.51.46.87	2005:600:303:303:87		
Ary2Wash	16509	100G	☒
206.72.210.148	2001:504:13:148		

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://mail.bgp4all.com/pfs/> - **Philip Smith's Internet Development Site**

Permanent link:

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

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