

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:

Last update:

2022/05/06 peering-toolbox:the_peering_database https://www.bgp4all.com/pfs/peering-toolbox/the_peering_database?rev=1651812837
04:53

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LINX LON1 Silver Sponsor

Peers	Connections	Open Peers	Total Speed	% with IPv6
811	913	598	38.2T	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
Term 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@linx.net
Sales Phone	+44 207 292 1111
Health Check	

LAN

MTU	1500
IX-F Member Export URL	Private

Peers at this Exchange Point [Filter](#)

Peer Name	ASN	Speed	Policy
(as) networks	33920	2G	Selective
195.66.225.115	2001:7B:4::8400:1		
BT Telecom (BT)	201003	10G	Open
2001:7B:4::3:14cd:1	195.66.227.214		
012 Smile Telecom	9116	10G	Open
195.66.225.114	2001:7B:4::239c:1		
012 Smile Telecom	9116	10G	Open
195.66.226.60	2001:7B:4::239c:2		
18.1 Versatel Deutschland GmbH	6881	100G	Selective
2001:7B:4::22bf:1	195.66.224.246		
300 Percent IT	20915	1G	Open
195.66.225.213	2001:7B:4::51b3:1		
23M GmbH	47447	10G	Open
2001:7B:4::b957:1	195.66.227.70		
24Shells Inc	55061	10G	Open
2001:7B:4::d729:1	195.66.227.116		
31173 Services AB	39351	10G	Open
2001:7B:4::99b7:1	195.66.226.62		
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 networks on the Internet:

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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-exroute-set	AS-AMAZON
Route Server URL	
Looking 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	2022-03-14T23:48:18Z
Public Peering Info Updated	2022-04-27T20:49:30
Peering Facility Info Updated	2022-03-28T23:36:40
Contact Info Updated	2020-12-01T12:29:56Z
Notes	<p>AWS Peering: https://peering.aws/</p> <p>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-eu@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: If you experience connectivity issues to Amazon, please</p>

Public Peering Exchange Points [Filter](#)

Exchange	ASN	Speed	RS Peer
AKL-IX (Auckland NZ)	16509	100G	<input type="radio"/>
43.243.21.113	2001:7B:11:6:0:407d:0:2		
AKL-IX (Auckland NZ)	16509	100G	<input type="radio"/>
43.243.21.112	2001:7B:11:6:0:407d:0:1		
AMS-IX	16509	600G	<input type="radio"/>
60.249.210.100	2001:7B:1::a501:6509:1		
AMS-IX	16509	600G	<input type="radio"/>
60.249.210.217	2001:7B:1::a501:6509:2		
AMS-IX Chicago	16509	100G	<input type="radio"/>
206.108.115.36	2001:904:38:1::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"/>
103.247.138.74	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		
Amv2Demer	16509	100G	<input type="radio"/>
206.51.46.87	2005:600:303:303:87		
Amv2Demer	16509	100G	<input type="radio"/>
206.72.210.146	2001:504:13:146		

Private Peering Facilities [Filter](#)

Facility	Country
151 Front Street West Toronto	Canada
16509	Toronto
185 Halsey Meet-Me Room	United States of America
16509	Newark
36 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.

[Back to "What I need to Peer" page](#)

From:

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

Permanent link:

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