

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
04:54

peering-toolbox:the peering database [https://www.bgp4all.com/pfs/peering-toolbox/the peering database?rev=1651812852](https://www.bgp4all.com/pfs/peering-toolbox/the%20peering%20database?rev=1651812852)



Search here for a network, IP, or facility.

Advanced Search

PeeringDB

peeringdb

Search here for a network, IP, or facility.

Advanced Search

LINX LON1

Silver Sponsor

Peers: 811

Connections: 913

Open Peers: 598

Total Speed: 36.2T

% with IPv6: 85

Organization

Also Known As

Long Name

City

Country

Continental Region

Media Type

Service Level

Terms

Last Updated

Notes

LINX

London Internet Exchange Ltd.

London

GB

Europe

Ethernet

Not Disclosed

Not Disclosed

2020-06-29T07:53:16Z

used to be Juniper LAN

Translate +

Contact Information

Company Website

Traffic Stats Website

Technical Email

Technical Phone

Policy Email

Policy Phone

Sales Email

Sales Phone

Health Check

<https://www.linx.net/>

<https://portal.linx.net/>

support@linx.net

info@linx.net

LAN

MTU

OK-F Member Export URL

Visibility

1500

Private


Peers at this Exchange Point

Filter

Peer Name IPv4	ASN IPv6	Speed IPv6	Policy
(an) networks 196.66.225.115	33920 2001:7fb:4::8490:1	2G	Selective
01 Telecom (01.T)	201903 195.66.227.214	10G	Open
2001:7fb:4::3:14cd:1			
012 Smile Telecom 196.66.225.114	9116 2001:7fb:4::239c:1	10G	Open
012 Smile Telecom 196.66.226.60	9116 2001:7fb:4::239c:2	10G	Open
01 1&1 Versandel Deutschland GmbH 2001:7fb:4::22b1:1	6081 195.66.224.245	100G	Selective
100 Percent IT 196.66.225.213	20915 2001:7fb:4::51b3:1	1G	Open
01 23M GmbH	47447 195.66.227.70	10G	Open
2001:7fb:4::b95f:1			
01 24Shells Inc	55061 195.66.227.116	10G	Open
2001:7fb:4::d729:1			
01 31173 Services AB	39351 195.66.226.62	10G	Open
2001:7fb:4::99b7:1			
4D Data Centres Ltd 2001:7fb:4::17b:1	31463 2001:7fb:4::17b:1	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

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-set/route-set	AS-AMAZON
Route Server UPL	
Looking Glass URL	
Network Type	Enterprise
IPv4 Prefixes	7500
IPv6 Prefixes	2500
Traffic Levels	Not Disclosed
Traffic Ratio	Balanced
Geographic Scope	Global
Protocols Supported	<input checked="" type="radio"/> Unicast IPv4 <input type="radio"/> Multicast <input checked="" type="radio"/> IPv6 <input type="radio"/> 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	<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-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.</p> <p>Operational issues:</p> <p>If you experience connectivity issues to Amazon, please</p>

Public Peering Exchange Points

Exchange	ASN	Speed	RS Peer
IPv4	IPv6		
AKL-IX (Auckland NZ)	16509	100G	<input type="radio"/>
43.243.21.113	2001:7fa:11:6:0:407d:0:2		
AKL-IX (Auckland NZ)	16509	100G	<input type="radio"/>
43.243.21.112	2001:7fa:11:6:0:407d:0:1		
AMS-IX	16509	600G	<input type="radio"/>
80.249.210.100	2001:78b:1::a501:6509:1		
AMS-IX	16509	600G	<input type="radio"/>
80.249.210.217	2001:78b:1::a501:6509:2		
AMS-IX Chicago	16509	100G	<input type="radio"/>
206.106.115.36	2001:504:38:1:0:a501:6509:1		
AMS-IX Hong Kong	16509	10G	<input type="radio"/>
103.247.139.10	2001:d80:296:a501:6509:1		
AMS-IX Hong Kong	16509	10G	<input type="radio"/>
103.247.139.74	2001:d80:296: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"/>
206.51.46.87	2005:600:303:303:67		
Any2West	16509	100G	<input type="radio"/>
206.72.210.146	2005:04:13:146		

Private Peering Facilities

Facility	Country
ASN	City
151 Front Street West Toronto	Canada
16509	Toronto
165 Halsey Meet-Me Room	United States of America
16509	Newark
35 John Street / 250 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://www.bgp4all.com/pfs/> - **Philip Smith's Internet Development Site**

Permanent link:

https://www.bgp4all.com/pfs/peering-toolbox/the_peering_database?rev=1651812852

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