

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

Search here for a network, IX, or facility.

Advanced Search

peeringdb

Menu

LINX LON1

Silver Sponsor

Peers: 811

Connections: 913

Open Peers: 598

Total Speed: 38.2T

% with IPv6: 85

Organization

Also Known As

Long Name

City

Country

Continental Region

Media Type

Service Level

Terms

Last Updated

Notes

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

Terms

Not Disclosed

Last Updated

2020-06-29T07:53:16Z

Notes

used to be Juniper LAN

Contact Information

Company Website

Traffic Stats Website

Technical Email

Technical Phone

Policy Email

Policy Phone

Sales Email

Sales Phone

Health Check

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

IX-F Member Export URL

Visibility

MTU

1500

IX-F Member Export URL

Private

Visibility

Peers at this Exchange Point

Filter

Peer Name

ASN

Speed

Policy

IPv4

IPv6

(net) networks

33920

2G

Selective

195.66.225.115

2001:7fb4:3490:1

Q1 Telecom (Q1.T)

201933

10G

Open

2001:7fb4:3:14cd:1

195.66.227.214

Q12 Smile Telecom

9116

10G

Open

195.66.225.114

2001:7fb4:239c:1

Q12 Smile Telecom

9116

10G

Open

195.66.226.90

2001:7fb4:239c:2

1&1 Vernetzt Deutschland GmbH

6881

100G

Selective

2001:7fb4:22b1:1

195.66.224.245

100 Percent IT

20915

1G

Open

195.66.225.213

2001:7fb4:51b3:1

23M GmbH

47447

10G

Open

2001:7fb4:bd57:1

195.66.227.70

24Shells Inc

55061

10G

Open

2001:7fb4:d729:1

195.66.227.115

31173 Services AB

39351

10G

Open

2001:7fb4:99b7:1

195.66.226.62

4D Data Centres Ltd

31463

10G

Selective

2001:7fb4:7b1:1

195.66.227.115

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

peeringdb

Menu

Amazon.com

Diamond Sponsor

Organization

Also Known As

Long Name

Company Website

ASN

IRR as-set/route-set

Route Server URL

Looking Glass URL

Network Type

IPv4 Prefixes

IPv6 Prefixes

Traffic Levels

Traffic Ratios

Geographic Scope

Protocols Supported

Last Updated

Public Peering Info Updated

Peering Facility Info Updated

Contact Info Updated

Notes

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

Looking Glass URL

Network Type

Enterprise

IPv4 Prefixes

7500

IPv6 Prefixes

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

2022-04-27T20:48:30

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

Filter

Exchange

ASN

Speed

RS Peer

IPv4

IPv6

AKL-IX (Auckland NZ)

16509

100G

43.243.21.113

2001:7fa:11:6:0:407d:0:2

AKL-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

206.106.115.36

2001:504:38:1:0: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:a48:44:100b:0:a501:6509:2

AMS-IX Mumbai

16509

10G

223.31.200.30

2001:a48:44:100b:0:a501:6509:1

Any2Denver

16509

100G

206.51.46.87

2605:6c00:303:303:87

Any2West

16509

100G

206.72.210.146

2001:504:13:146

Private Peering Facilities

Filter

Facility

ASN

Country

City

151 Front Street West Toronto

16509

Canada

Toronto

195 Halsey Meet-Me Room

16509

United States of America

Newark

35 John Street / 250 Front Street West

16509

Canada

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.au/pfs/> - Philip Smith's Internet Development Site

Permanent link:

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

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