



PeeringDB

What's new on PeeringDB?

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What is PeeringDB?

Mission statement: “PeeringDB, a nonprofit member-based organization, facilitates the exchange of user maintained interconnection related information, primarily for Peering Coordinators and Internet Exchange, Facility, and Network Operators.”

- A PeeringDB record makes it easy for people to find you, and helps you establish peering
- If you aren't registered in PeeringDB, you can register at <https://www.peeringdb.com/register>
- We use basic verification for new accounts and require current Whois information, so please
 - Update and maintain your Whois information
 - Register from an email address associated with your ASN /company



What is PeeringDB?

Why should my exchange, network or facility be listed in PeeringDB?

- Helps establish new peering more efficiently, with all information easy to find in one place
 - Maintain all of your contact and connection info
 - Find other network's peering contact and connection info
 - Find interconnection facility and IXP info
- A PeeringDB record is required by many networks to peer
- Can be used for automation to generate router configurations
 - Initial configuration to setup peering quickly
 - Update configuration if maximum prefixes change

Governance and Membership

- PeeringDB is a United States 501(c)(6) volunteer organization that is 100% funded by sponsorships
- Healthy organization, building financial reserves and executing the long term strategic plan
- Membership rules
 - A corporation, limited liability company, partnership or other legal business entity may be a Member of the Corporation
 - Membership is determined by having both an active PeeringDB.com account and an individual representative or role subscription to the PeeringDB Governance mailing list
 - 344 addresses subscribed to the Governance mailing list (as of April 16, 2019)
 - Governance list is at <http://lists.peeringdb.com/cgi-bin/mailman/listinfo/pdb-gov>
 - More information available at <http://gov.peeringdb.com/>

Board of Directors and Officers



Shawna Bong – Secretary and
Treasurer (Officer)



Aaron Hughes – Vice President
(Term Expires 2026)



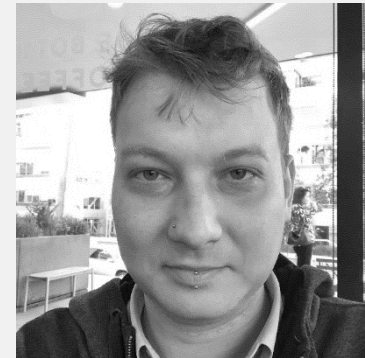
Rahul Makhija – Director
(Term Expired 2025)



Christopher Malayter – President
(Term Expired 2025)



Livio Morina – Director
(Term Expires 2027)



Job Snijders – Director
(Term Expires 2026)

Board of Directors and Officers (new elected)



Shawna Bong – Secretary and Treasurer (Officer)



Aaron Hughes – Vice President
(Term Expires 2026)



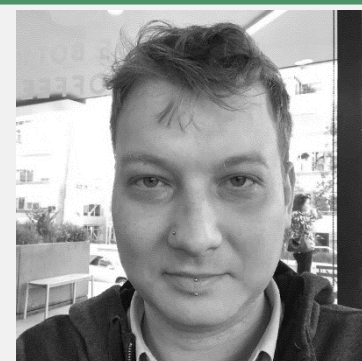
Isabel Odida – Director
(Term Expires 2027)



Alex Corso – Director
(Term Expires 2027)



Livio Morina – Director
(Term Expires 2027)



Job Snijders – Director
(Term Expires 2026)

Committees

Admin Committee	Operations Committee	Outreach Committee	Product Committee
<ul style="list-style-type: none">• Manage administration of user accounts and PeeringDB records• Answer support tickets• Cleansing and completion of PeeringDB records <p>Leads: Chriztoffer Hansen (Chair) and Peter Helmenstine (Vice Chair) Contact: admincom@lists.peeringdb.com</p>	<ul style="list-style-type: none">• Manage PeeringDB infrastructure <p>Leads: Job Snijders (Chair) and Aaron Hughes (Vice Chair) Contact: pdb-ops@lists.peeringdb.com</p>	<ul style="list-style-type: none">• Manage marketing and social media• Develop and maintain presentations, workshops and webinars• Coordinate presentations and attendance at events <p>Leads: Ben Ryall (Chair) Contact: outreachcom@lists.peeringdb.com</p>	<ul style="list-style-type: none">• Manage roadmap and development priorities• Ask for input from the community on desired features• Write SoWs to solicit bids to complete requested features <p>Leads: Jack Carrozzo (Chair) and Matt Griswold (Vice Chair) Product Manager: Leo Vegoda Contact: productcom@lists.peeringdb.com</p>

PeeringDB is Open Source Software!

- Open source release announcement on 2018-11-10
 - Released under the 2-Clause BSD License:
<https://opensource.org/licenses/BSD-2-Clause>
- Beneficial to the peering and interconnection community by promoting innovation
 - Allows volunteers to contribute
 - Makes it easier for third parties to bid on new features specified by the Product Committee
 - A process for accepting contributions will be announced
- Source code is available on GitHub:
<https://github.com/peeringdb/peeringdb>

We (always) Need Beta Testers

Consider using the Beta environment as default

- Just over half a percent of users visit beta.peeringdb.com each month
 - We recognize that there are good and bad reasons for this!
- As of release 2.57.0, beta.peeringdb.com refreshes once an hour
- Early access to improvements
- Easy feedback mechanism
- Try it at <https://beta.peeringdb.com>
- Contact us at pc@peeringdb.com with any questions

2024 Year in Review

	2023	2024	Difference	% Increase
Campuses	-	556	n/a	n/a
Carriers	-	8,164	n/a	n/a
Exchanges	1,152	1,239	87	7.6
Facilities	5,282	5,633	351	6.7
Networks	29,148	31,597	2,449	8.4
Organizations	27,714	30,008	2,834	10.2
Users	41,975	46,657	4,682	11.2

2024 New Feature Highlights

- New Carrier and Campus objects
 - Carrier: for providers offering L1 or L2 services in a Facility
 - Different from a Network which is for L3 services with an ASN
 - HOWTO: Get Started with PeeringDB as a Carrier Operator (<https://docs.peeringdb.com/howto/get-started-carrier/>)
 - Campus: two or more Facilities owned by the same organization with inter-Facility cross connects
 - HOWTO: Get Started with PeeringDB as a Facility or Campus Operator (<https://docs.peeringdb.com/howto/get-started-facility/>)
- Many other smaller enhancements, bug fixes, and security updates
 - Refer to the 2024 Release Notes for complete details (https://docs.peeringdb.com/release_notes/release_notes_2024/)


2024 New Feature Highlights

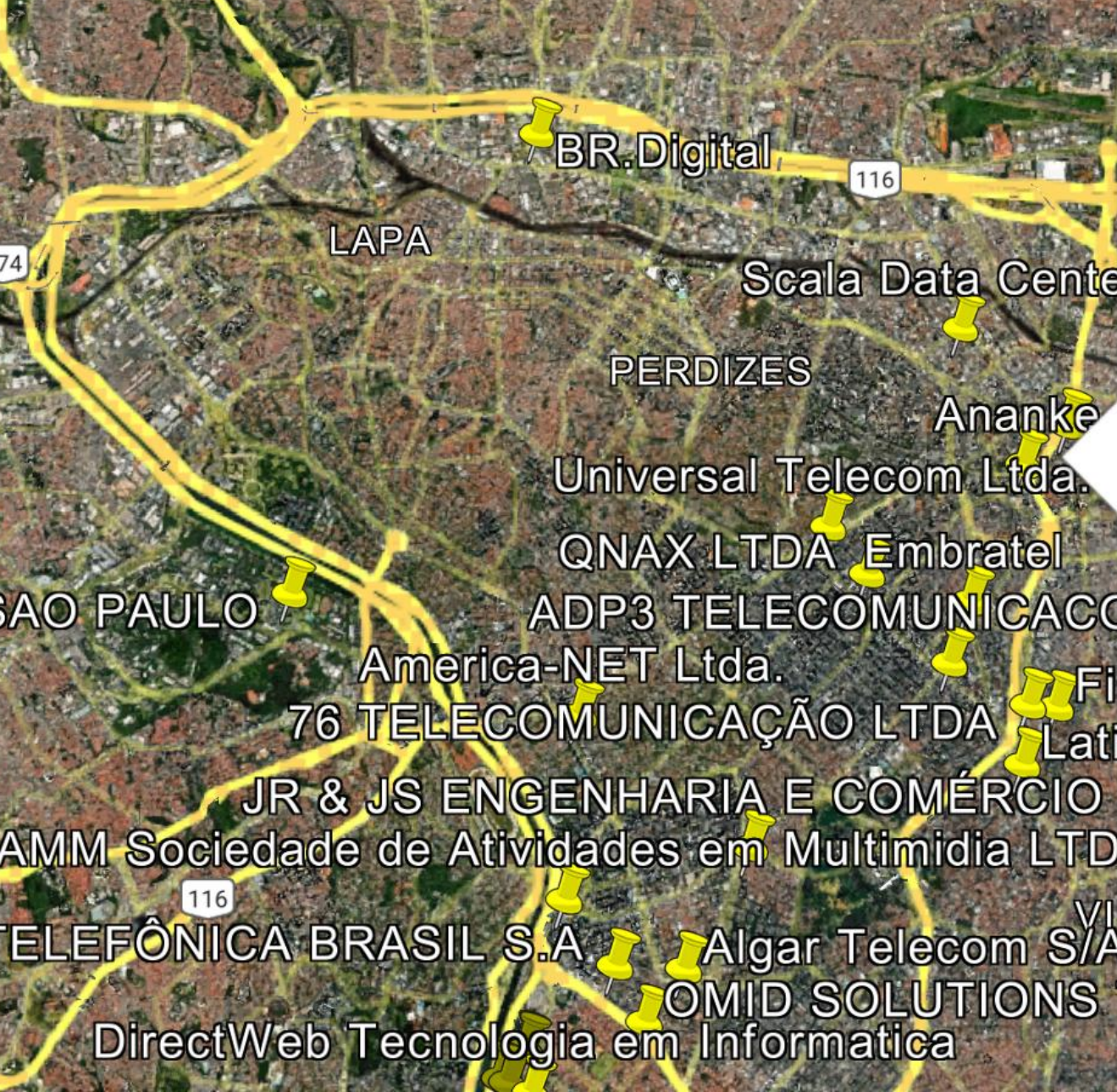
- We automatically remove ASNs after they are reclaimed by an RIR or NIR
- peeringdb-py ([HOWTO](#)) enhancements
 - Run queries locally on your infrastructure to avoid query limits and to get the best response time
 - Reduces PeeringDB load (= cost)
- We have [containerized](#)
- Keyhole Markup Language (KML) export of geographic data
 - Import into GIS applications
 - Export relevant searches as a .KMZ file

Search for a Facility

[↓ JSON](#) [↓ CSV](#) [↓ KMZ](#)

1

Name  Management	CLLI NPA-NXX	City Country	State Postal Code	Networks
Ananke Ananke	- -	Sao Paulo BR	SP 01314000	-
PIX Embratel SP Embratel	- -	São Paulo BR	SP 01329-000	4
Equinix SP1 - São Paulo Equinix, Inc.	- -	São Paulo BR	SP 01008010	79
ADP3 TELECOMUNICAÇÕES LTDA ADP3 TELECOMUNICACOES LTDA.	- -	São Paulo BR	São Paulo 01412-000	-
Qnax Data Center do Brasil QNAX LTDA	- -	Sao Paulo BR	SP 14407415	1
Smart Telecom Telecomunicações LTDA 76 TELECOMUNICAÇÃO LTDA	- -	Sao Paulo BR	- -	3
FIBRAREDE GESTAO E SERVICOS DE INFRAESTRUTURA FibraRede Gestao e Serviços de Infraestrutura Ltda	- -	Sao Paulo BR	SP 04103001	-
Unitelco SP Universal Telecom Ltda.	- -	São Paulo BR	São Paulo 01310-300	-
Scala Data Centers SGRUSP02 Scala Data Centers	- -	São Paulo BR	SP 01215-001	6
Ultrahet SP1 Ultrahet Telecom	- -	Sao Paulo BR	SP 01538000	1
Latitude.sh MH1 Latitude.sh	MH1 -	Sao Paulo BR	SP 04013-050	6
Nextel MSO SPO Nextel Telecomunicacoes Ltda	-	São Paulo BR	State of São Paulo 02045	-



Equinix, Inc.

Name	Equinix, Inc.
Peeringdb	https://peeringdb.com/fac/1585
Website	https://www.equinix.com/locations/americas-colocation/brazil-colocation/sao-paulo-data-centers/sp1/
Networks	79
Exchanges	4
Address	Rua Dr. Miguel Couto, 58
City	São Paulo
Country	BR
State	SP
Zipcode	01008010
Latitude	-23.545988
Longitude	-46.635836

2024 New Feature Highlights

- Our blog describes other improvements and changes
- Or follow us on social media!

 <https://www.facebook.com/peeringdb/>

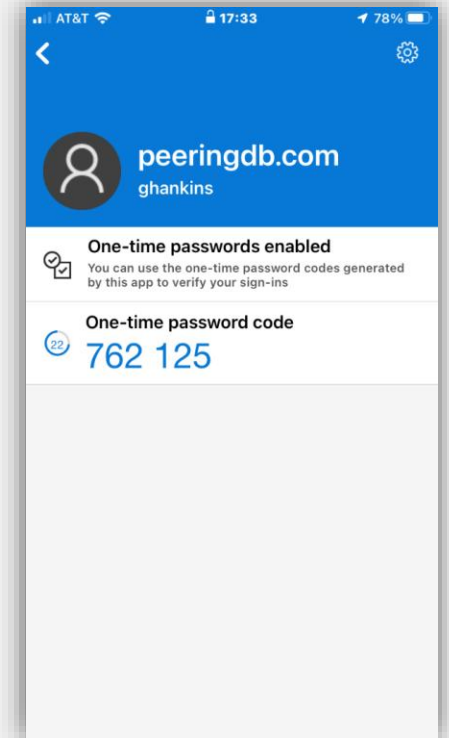
 <https://www.linkedin.com/company/peeringdb>

 [@PeeringDB](https://twitter.com/PeeringDB)



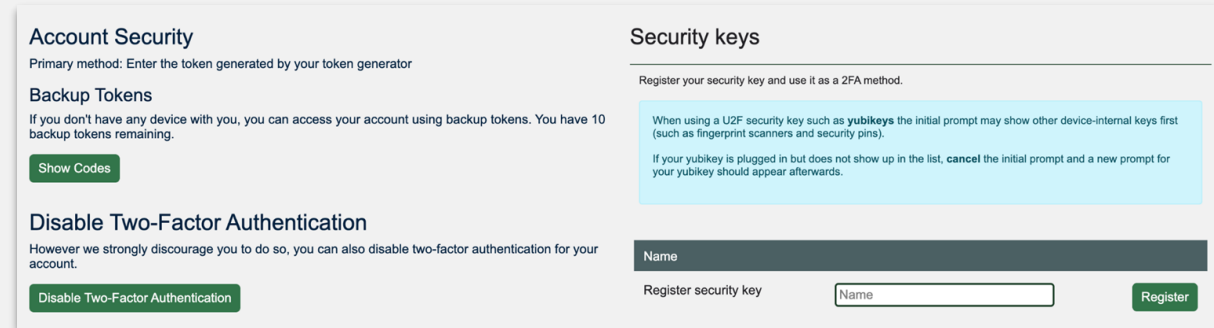
2025 Roadmap: MFA

- Multi-factor authentication (MFA) has been available for years and will be mandatory from 1 July 2025
- Two-factor authentication (2FA)
 - Using time-based one-time password (TOTP) - no SMS, no email
 - Provision for backup codes and recovery tokens
- Fast IDentity Online (FIDO) Universal 2nd Factor (U2F) 2FA support
 - 2FA without relying on a TOTP app
- HOWTO:
<https://docs.peeringdb.com/howto/authenticate/>



2025 Roadmap: MFA

- We are keeping anonymous use but will require MFA for all authenticated users
 - We are integrating MFA management in the user profile so managing options is easier
 - API users will need to create an API Key, no more username and password authentication
- More blog posts and announcements will be made on social media in advance
- Direct communications to users who haven't set up MFA



The screenshot shows a user interface for managing account security. It is divided into two main columns. The left column contains three sections: 'Account Security' with a primary method of token generation and a 'Show Codes' button; 'Backup Tokens' with a note about 10 remaining tokens and a 'Show Codes' button; and 'Disable Two-Factor Authentication' with a warning and a 'Disable Two-Factor Authentication' button. The right column is titled 'Security keys' and includes instructions on using U2F keys, a 'Name' input field, and a 'Register' button.

July 1st !

2025 Roadmap: Analysis

- Adding a web tool to help users compare interconnection opportunities at facilities
- Add ASNs, add locations, view and export results

LOGO

	# ---- Name	# ---- Name	# ---- Name	# ---- Name
Network Type				
Traffic Level				
Exchanges				
Unique IXPs				
Unique ASNs	#30	#4	#25	#100
Unique Facilities	#4	#3	#2	#5
Common IXPs			#15	
Common ASNs			#28	
Common Facilities			#2	

2025 Roadmap: Operations and Bug Fixes

- We're working on making both the API and website more responsive
 - You can sync using peeringdb-py to keep queries local and integrate PeeringDB data with other sources
- We'll be developing
 - Additional support tools
 - Minor features
 - Bug fixes

LATAM from PeeringDB POV

CC	IXP/OP	ASN	LASN	Colo/OP	ASN	LASN	TASN	TLASN	PDB	RIR	Rtd	%
BR	52/10	2444	2274	335/221	1142	978	2665	2427	5258	9000	8626	58,42%
AR	4/4	398	346	67/29	365	308	443	365	619	1292	1046	47,91%
MX	9/8	70	25	51/15	95	33	133	46	133	720	486	18,47%
CO	7/4	99	43	22/15	114	37	147	52	101	500	359	20,20%
CL	8/5	165	92	51/35	124	53	215	114	181	420	320	43,10%
EC	7/5	27	14	14/8	15	6	34	17	107	250	208	42,80%
VE	2/2	6	3	7/5	18	15	21	15	72	244	177	29,51%
PE	14/8	114	69	15/13	68	36	137	78	109	221	156	49,32%
DO	4/4	56	54	3/3	13	10	63	58	105	187	150	56,15%
PA	2/2	32	15	8/6	15	4	41	16	30	147	90	20,41%
CR	3/3	42	29	8/7	4	2	42	29	41	117	78	35,04%
HN	2/2	28	22	1/1	0	0	28	22	36	110	88	32,73%
PY	2/2	40	29	8/7	14	8	44	30	55	106	91	51,89%
GT	3/2	34	20	6/5	12	8	38	22	39	91	60	42,86%

LASN: Local ASN, ie. ASN in CC TASN: Total ASN (IXP + Colo) TLASN: Total Local ASN

LATAM from PeeringDB POV (2)

CC	IXP/OP	ASN	LASN	Colo/OP	ASN	LASN	TASN	TLASN	PDB	RIR	Rtd	%
BO	2/2	20	16	2/2	2	1	21	16	31	66	51	46,97%
SV	1/1	0	0	1/1	0	0	0	0	12	54	37	22,22%
UY	0/0	0	0	1/1	2	1	2	1	17	47	27	36,17%
CW	1/1	9	4	2/2	4	2	10	4	11	37	19	29,73%
BZ	0/0	0	0	0/0	0	0	0	0	10	34	22	29,41%
NI	0/0	0	0	1/1	0	0	0	0	12	33	25	36,36%
TT	2/1	14	10	5/3	7	5	17	11	12	17	14	70,59%
HT	1/1	4	1	0/0	0	0	4	1	3	13	7	23,08%
CU	0/0	0	0	0/0	0	0	0	0	1	7	3	14,29%
GF	1/1	3	1	1/1	4	1	4	1	2	7	3	28,57%
GY	0/0	0	0	0/0	0	0	0	0	4	7	5	57,14%
SR	1/1	8	6	2/2	0	0	8	6	7	7	5	100,00%
AW	0/0	0	0	0/0	0	0	0	0	2	4	3	50,00%
SX	1/1	5	3	1/1	2	2	5	3	4	4	3	100,00%

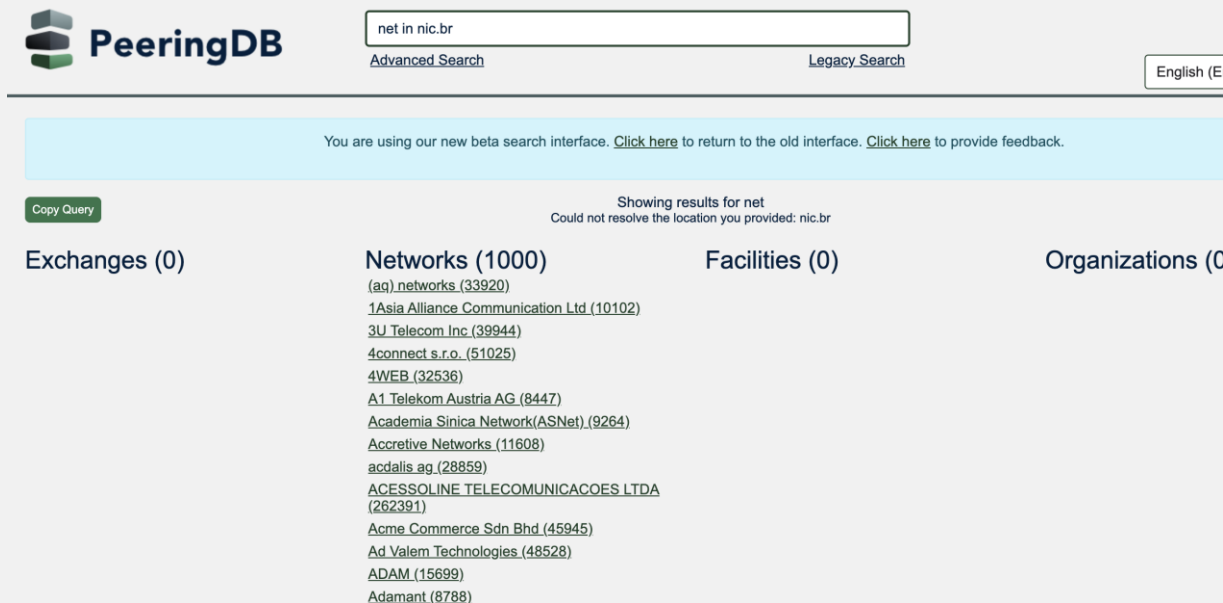
LASN: Local ASN, ie. ASN in CC TASN: Total ASN (IXP + Colo) TLASN: Total Local ASN

How can PeeringDB help me to interconnect?

- Facilitates global network connections
- Interconnection decisions
- Find information about other networks
- Make your services easier to find

Querying PeeringDB

- Documentation: <https://docs.peeringdb.com/howto/search/#howto-get-started-with-search-in-peeringdb>



The PeeringDB search interface shows a search bar with the text "net in nic.br". Below the search bar, there are links for "Advanced Search" and "Legacy Search". A message indicates that the user is using the new beta search interface and provides links to return to the old interface or provide feedback. The search results are displayed in four columns: Exchanges (0), Networks (1000), Facilities (0), and Organizations (0). The Networks column lists various network providers with their ASNs and names.

PeeringDB

net in nic.br

Advanced Search Legacy Search

English (E)

You are using our new beta search interface. [Click here](#) to return to the old interface. [Click here](#) to provide feedback.

Copy Query

Showing results for net
Could not resolve the location you provided: nic.br

Exchanges (0)

Networks (1000)

Facilities (0)

Organizations (0)

(aq) networks (33920)

1Asia Alliance Communication Ltd (10102)

3U Telecom Inc (39944)

4connect s.r.o. (51025)

4WEB (32536)

A1 Telekom Austria AG (8447)

Academia Sinica Network(ASNet) (9264)

Accretive Networks (11608)

acdalis.ag (28859)

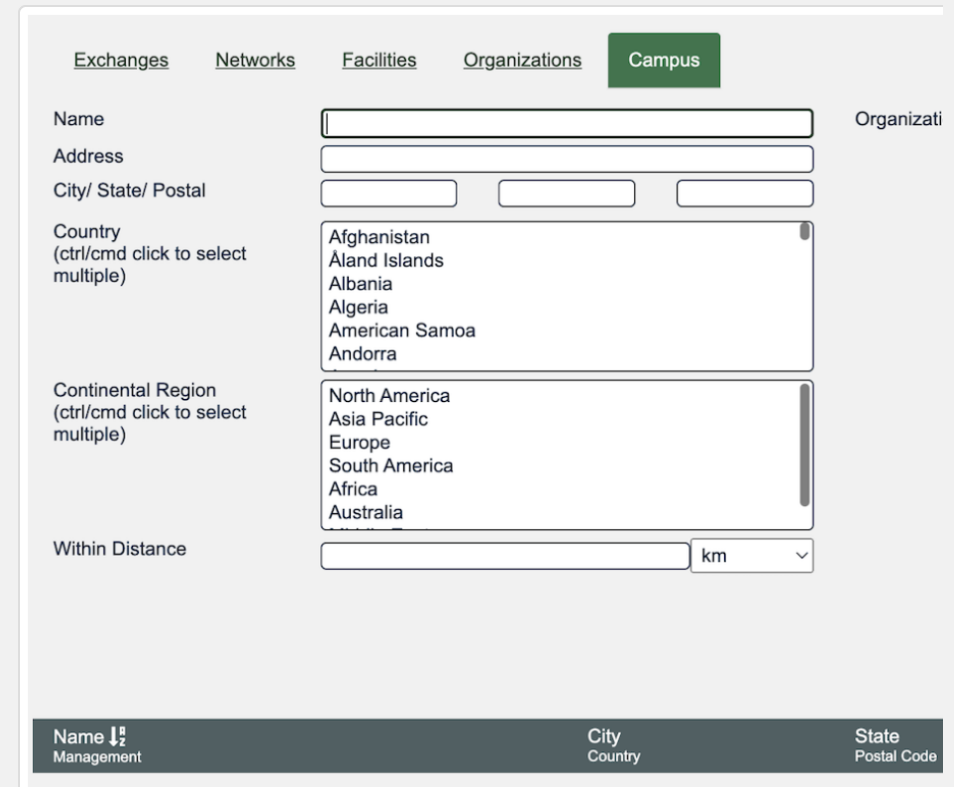
ACESSOLINE TELECOMUNICACOES LTDA (262391)

Acme Commerce Sdn Bhd (45945)

Ad Valem Technologies (48528)

ADAM (15699)

Adamant (8788)



The search filters section allows users to refine their search results. It includes tabs for Exchanges, Networks, Facilities, Organizations, and Campus. The filters are organized into sections: Name, Address, City/ State/ Postal, Country (with a list of countries), Continental Region (with a list of regions), and Within Distance (with a distance input and unit selector). The bottom of the filters section shows a table header with columns for Name, City, Country, State, and Postal Code.

Exchanges Networks Facilities Organizations Campus

Name

Address

City/ State/ Postal

Country (ctrl/cmd click to select multiple)

Continental Region (ctrl/cmd click to select multiple)

Within Distance

km

Name ↓
Management

City
Country

State
Postal Code

Querying PeeringDB

- Documentation: <https://docs.peeringdb.com/howto/search/#howto-get-started-with-search-in-peeringdb>

The screenshot shows the PeeringDB search interface. At the top left is the PeeringDB logo. Below it is a search bar with the text "net in nic.br" and a red box around the "Advanced Search" button. A red arrow points from the "Advanced Search" button to the "Campus" tab on the right. Below the search bar is a message: "You are using our new beta search interface. [Click here](#) to return to the old interface. [Click here](#) to provide feedback." Below this is a "Copy Query" button. The main content area shows search results for "net in nic.br". The results are categorized into "Exchanges (0)", "Networks (1000)", "Facilities (0)", and "Organizations (0)". The "Networks (1000)" section lists several networks with their names and ASNs, such as "1Asia Alliance Communication Ltd (10102)", "3U Telecom Inc (39944)", "4connect s.r.o. (51025)", "4WEB (32536)", "A1 Telekom Austria AG (8447)", "Academia Sinica Network(ASNet) (9264)", "Accretive Networks (11608)", "acdalis.ag (28859)", "ACESSOLINE TELECOMUNICACOES LTDA (262391)", "Acme Commerce Sdn Bhd (45945)", "Ad Valem Technologies (48528)", "ADAM (15699)", and "Adamant (8788)". On the right side, there is a "Campus" tab selected, showing a form for searching by location. The form includes fields for "Name", "Address", "City/ State/ Postal", "Country" (with a dropdown menu), "Continental Region" (with a dropdown menu), and "Within Distance" (with a text input and a unit dropdown set to "km"). Below the form is a table with columns for "Name", "City", and "State".

PeeringDB

net in nic.br

Advanced Search

Legacy Search

English (E)

You are using our new beta search interface. [Click here](#) to return to the old interface. [Click here](#) to provide feedback.

Copy Query

Showing results for net
Could not resolve the location you provided: nic.br

Exchanges (0)

Networks (1000)

Facilities (0)

Organizations (0)

(aq) networks (33920)

1Asia Alliance Communication Ltd (10102)

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acdalis.ag (28859)

ACESSOLINE TELECOMUNICACOES LTDA (262391)

Acme Commerce Sdn Bhd (45945)

Ad Valem Technologies (48528)

ADAM (15699)

Adamant (8788)

Exchanges

Networks

Facilities

Organizations

Campus

Name

Address

City/ State/ Postal

Country (ctrl/cmd click to select multiple)

Continental Region (ctrl/cmd click to select multiple)

Within Distance

km

Organizations

Name ↓ Management

City Country

State Postal Code

Querying with the PeeringDB API

- The PeeringDB website is very helpful in these regards, but using the website still requires a lot of manual work.
- The PeeringDB API makes it easy to integrate PeeringDB in your environment.
- The PeeringDB database can be queried using a REST API.
- All endpoints are rate-limited to 1 request per second.

API Documentation

- <https://www.peeringdb.com/apidocs/#tag/api>
- You don't need an account to use the basic search functionality
- Basic objects:
 - Org, fac, ix, net, poc, as_set
- Derived objects:
 - Ixlan, ocpfx, netislan, netfac

API KEY

- There are two main forms of API Keys:
 - User-level
 - Organization-level

API Keys

API Keys allow you to authenticate a client without providing your username and password.

Prefix	Description	
NlyiYdAn	test-key	<button>Revoke</button>

Your API key was successfully created. Write this key down some place safe. Keys cannot be recovered once this message is exited or overwritten.

NlyiYdAn.gGGin1sybFD2irj51b10SGnjsFjuCrAp

Add Key Add

☐ Read only

Using Python

- Get networks for NIC.BR

```
import requests

api_key = "API_KEY"
url = "https://www.peeringdb.com/api/net?org_id=1245"

headers = {
    "Authorization": "Api-Key "+api_key,
    "Content-Type": "application/json"
}

r = requests.get(url, headers=headers)
data = r.json()['data']
```

```
for d in range(len(data)):
    print(data[d]['name'])
```

```
NIC.BR
NIC.br - SIMET
NIC.br - IX.br (PTT.br) MLPA Route Servers
NIC.br - SARA
NIC.br - OpenCDN
NIC.BR eventos
NIC.BR a.dns.br
NIC.BR b.dns.br
NIC.BR c.dns.br
NIC.BR d.dns.br
NIC.BR e.dns.br
```

```
Index(['id', 'org_id', 'name', 'aka', 'name_long', 'website', 'social_media',
      'asn', 'looking_glass', 'route_server', 'irr_as_set', 'info_type',
      'info_types', 'info_prefixes4', 'info_prefixes6', 'info_traffic',
      'info_ratio', 'info_scope', 'info_unicast', 'info_multicast',
      'info_ipv6', 'info_never_via_route_servers', 'ix_count', 'fac_count',
      'notes', 'netixlan_updated', 'netfac_updated', 'poc_updated',
      'policy_url', 'policy_general', 'policy_locations', 'policy_ratio',
      'policy_contracts', 'allow_ixp_update', 'status_dashboard',
      'rir_status', 'rir_status_updated', 'created', 'updated', 'status'],
      dtype='object')
```

Using CURL

- Get networks by AS and List all IXPs

```
~ % curl GET https://www.peeringdb.com/api/net?asn=42
```

```
~ % curl -H "Authorization: Api-Key $API_KEY" -H "Content-Type: application/json" -X GET https://www.peeringdb.com/api/ix
```

```
{"data": [{"id": 1, "org_id": 2, "name": "Equinix Ashburn", "aka": "", "name_long": "Equinix Internet Exchange Ashburn",  
"city": "Ashburn", "country": "US", "region_continent": "North America", "media": "Ethernet", "notes": "",  
"proto_unicast": true, "proto_multicast": false, "proto_ipv6": true, "website": "https://ix.equinix.com", "social_media":  
[{"service": "website", "identifier": "https://ix.equinix.com"}], "url_stats": "https://ix.equinix.com/home/locations-and-  
traffic/#traffic", "tech_email": "support@equinix.com", "tech_phone": "", "policy_email": "support@equinix.com",  
"policy_phone": "", "sales_phone": "", "sales_email": "", "net_count": 339, "fac_count": 3, "ixf_net_count": 0,  
"ixf_last_import": null, "ixf_import_request": null, "ixf_import_request_status": "queued", "service_level": "24/7  
Support", "terms": "Recurring Fees", "status_dashboard": "", "created": "2010-07-29T00:00:00Z", "updated": "2024-07-  
26T15:34:35Z", "status": "ok"}]}
```

peeringdb-py

- Local version of PeeringDB's SQL database
- API Key only if you want to synchronize contact information
- peeringdb-py's defaults to an SQLite3 database
- Documentation: <https://docs.peeringdb.com/howto/peeringdb-py/>

peeringdb-py

- Installation:

- Install python package

```
pip install --upgrade peeringdb
```

- Run the server setup:

```
peeringdb server --setup
```

- Clones the peeringdb_server git repo
 - Uses cloned docker-compose.yml to create a local PeeringDB server
 - Loads and syncs data
 - Creates an auto sync process to keep it running
 - Starts serving data on <http://localhost:8000>

peeringdb-py

```
curl -H "Content-Type: application/json" -X GET localhost:8000/api/ixlan/1514
```

```
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