DE-CIX Academy

PeeringDB Workshop

Learning the Ropes

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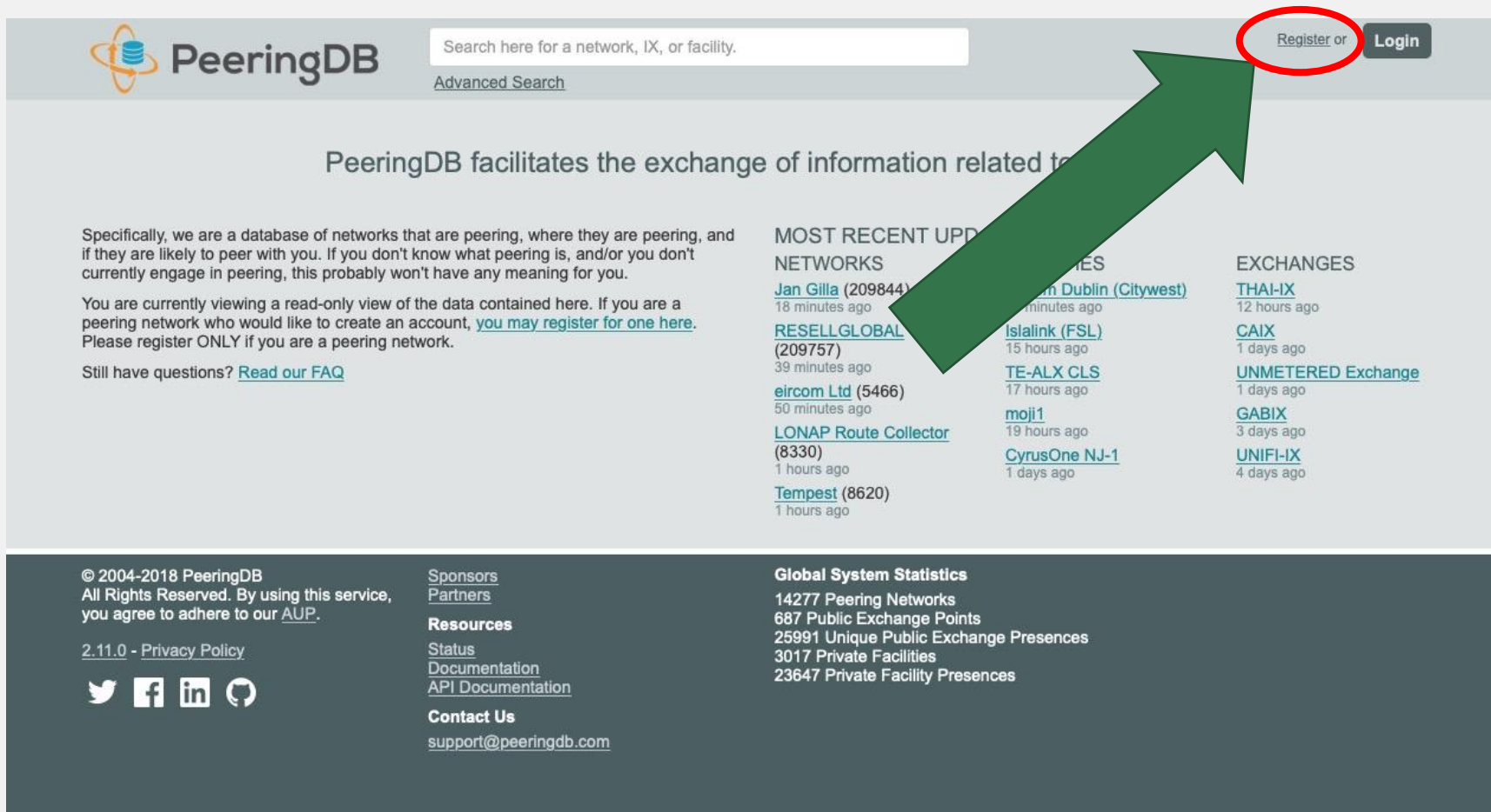PeeringDB

DE-CIX

Agenda

- Please always use the tutorial DB at https://tutorial.peeringdb.com
- Registering
  - Yourself
  - Your organization
- Adding information
  - About your organization
  - About your network / Autonomous System
  - Adding your peering policy
- Internet Exchanges and Facilities
  - Add where your network is present
- Retrieve information
  - Present what you have learned about another network

Registering

Registering

- Choose an username
- Password must be at least 10 characters long

- Use a **real** work **e-mail address**
  - Ideally the one you registered teh ASN with
- And put in your first and last name
- You receive a confirmation email
- Click on the link in the email

Registering

- You can choose a language
  - If your language is not available yet and you want to help – let us know!
  - Not all languages are fully translated
- To re-send the confirmation email, click the button
- Further options here:
  - Change email address
  - Change password
- You have to click the link in the email to continue!

Registering

Set language preference

You have confirmed your email address!

Affiliate with organization

To affiliate with an existing organization, please enter the ASN or organization name below.

To register a new network organization, please enter the ASN and organization name below.

To register a new facility or exchange organization, please enter the organization name below (ASN is optional).

| ASN | 645XX |
| Organization | Some Name |

Affiliate

In case the RiR entry cannot be retrieved for your ASN, please contact support@peeringdb.com for assistance.

Existing affiliations

- Once your email is confirmed:

- Get affiliated with an organization
  - Your company
  - Which is already in PeeringDB

- Or is new to PeeringDB
  - Can be an ISP – enter your AS number!
  - Or a Datacenter
  - Or an Internet Exchange

Registering

- Once approved, you can edit your organization
- Click on your organization to continue…

Your Organization

- Enter information about your organization – click on edit

Your Organization

- Lets focus on the left side of the screen
- Enter the required information (use either your Sheet or your real company information)
- Use the notes field to promote your company as a peer (if you want to)
  - You can use Markdown (see handout for URL)

Your Organization

- You can also change your company name
- Enter some information and click "Save"

Network Information

- Now it gets interesting

- With your basic company information now in, let's add information about your network

- Click on your network name – beside your AS number on the right side
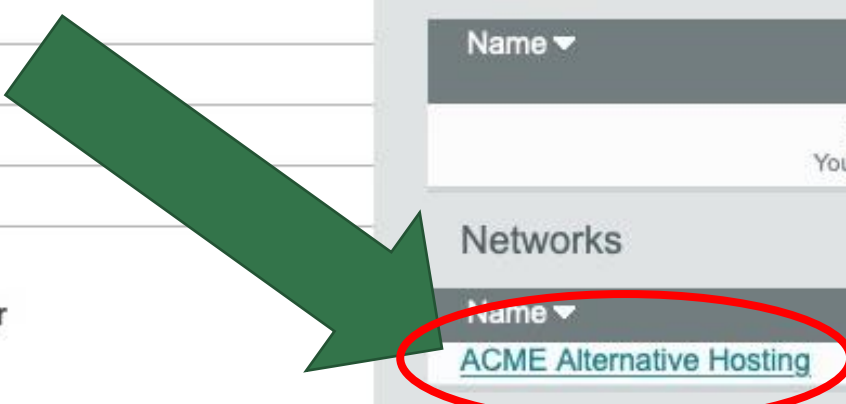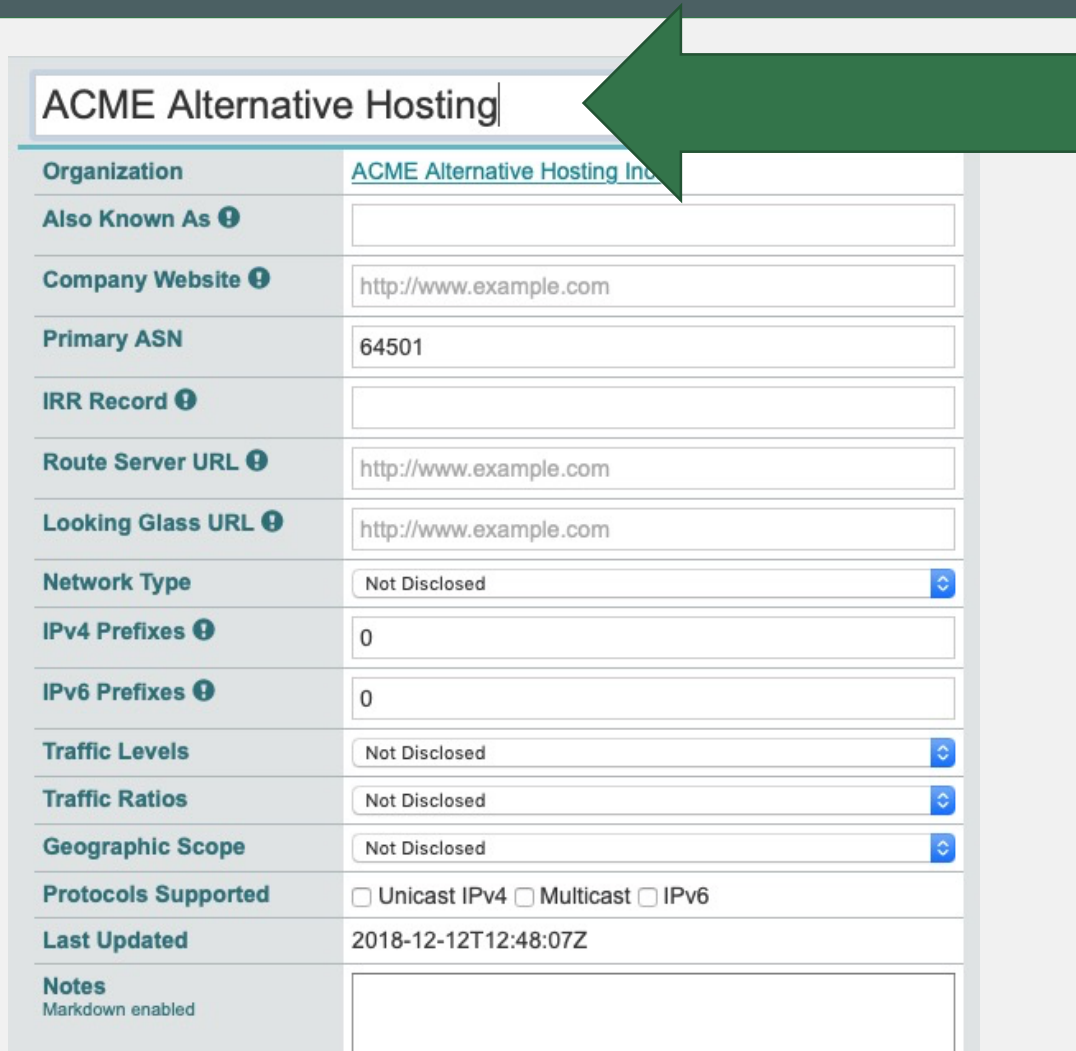
Network Information

ACME Alternative Hosting

Organization	ACME Alternative Hosting Inc
Also Known As ❶	
Company Website ❶	http://www.example.com
Primary ASN	64501
IRR Record ❶	
Route Server URL ❶	http://www.example.com
Looking Glass URL ❶	http://www.example.com
Network Type	Not Disclosed
IPv4 Prefixes ❶	0
IPv6 Prefixes ❶	0
Traffic Levels	Not Disclosed
Traffic Ratios	Not Disclosed
Geographic Scope	Not Disclosed
Protocols Supported	☐ Unicast IPv4 ☐ Multicast ☐ IPv6
Last Updated	2018-12-12T12:48:07Z
Notes Markdown enabled	

- Again, click on „Edit" (top right)
- Here is a lot of information to enter
- Most is self-explanatory
- But some is not that obvious
  - Title here is your **network name**
  - Does not have to be the same as your company name
  - Some companies run more than one network
  - Or use a different name for their networking business

PeeringDB

Network Information

- Use this field for an alternative name
- Or an „old" name if you changed names
- Or leave it empty
- Company website – remember this is PeeringDB
  - Put in the URL your peers should see
- AS number – your main one
  - If you have more, you can add a 2nd entry later
  - This field will probably be removed

Network Information

- IRR Record
  - Your AS-Macro (also called AS-Set)
  - You have registered in *IRR* database
  - Of your RIR (Regional Internet Registry)
- Route Server URL - if you have one
- Looking Glass URL

Network Information

- Fill in the rest
  - Either according to your sheet
  - Or choose your real network
- In „Notes" you can use Markdown
  - You can give your peers free text information
  - Like details about your peering policy
  - More about your peering policy further down below

Peering Information

Allow IXP Update here

PeeringDB Configuration

Allow IXP Update
If enabled, an ixp may manage this network's entry in their peering list

Peering Policy Information

Peering Policy ⓘ	http://www.example.com
General Policy	Open
Multiple Locations	Not Required
Ratio Requirement	No
Contract Requirement	Not Required

- Now we add information about Peering!

- Important: Allowing IXP Update helps maintaining DB accuracy
  - So please allow if you trust your IXPs

- Use the dropdowns to publish your peering policy

- In case of selective/restrictive you may use the notes field above

Contact Information

- **Very important!**
- To inform peers how to contact you
  - In a number of roles
- You can add as many as you need
  - „Add Contact" to store and next
  - Public, for logged in users, or private
- You do not have to fill out all fields
- But please:
    keep contact info up to date
- Do not forget to „save" when complete

Review what you have entered

- You now have entered:
  - Information about your organization, like:
    - Address
    - Website
    - Free form text
  - Network information
    - Your AS number
    - Number of prefixes you announce,
    - Traffic info
  - Peering information, like peering policy
  - Contacts for your peers
- Please check if everything is correct

Add peering at an IXP

- Click on „Edit" at the top right again
- Enter an IXP name in Exchange
  - And select the IXP you are connected to from the list
- Enter speed, IPv4 and IPv6
- Select "RS Peer" if you are peering with the route server
- **Click on „Add Exchange Point"!**
- And then click on „save".

Presence at a datacenter
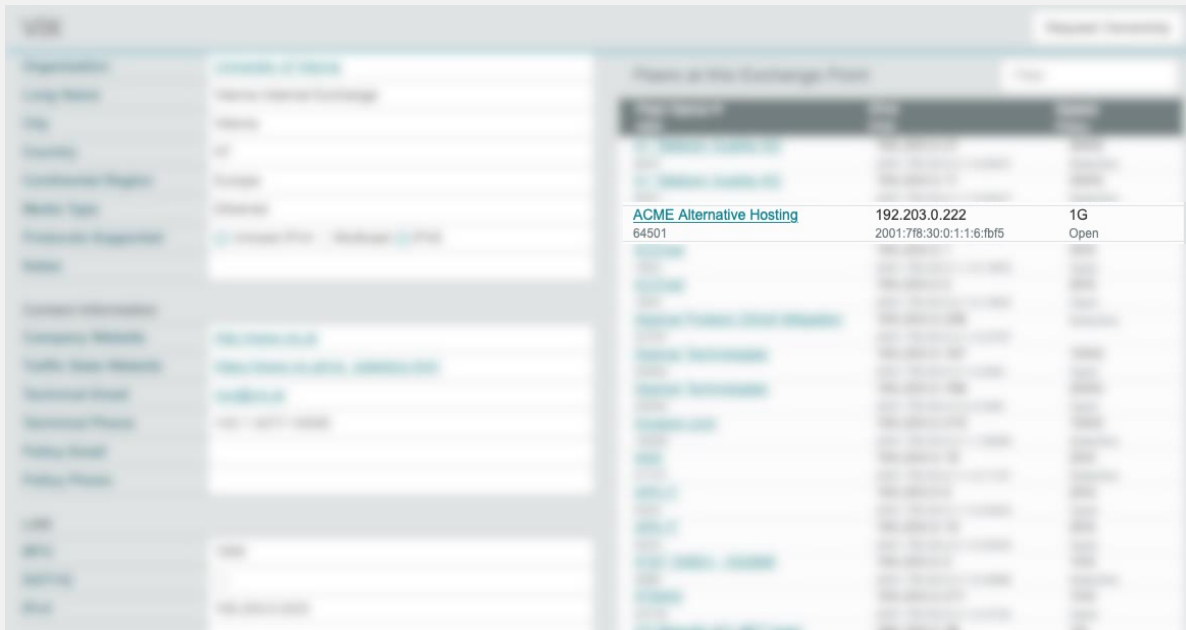
- Now again click on „edit"
- Scroll down and enter a city or datacenter name in „Facility"
- Select the facility you are in from the list and....
- ...click on „Add Facility"
- When you have added all facilites click on „Save"

Check what you have entered

- Click on the name of the IXP you entered
- Find your entry in the list
- Do the same for the facilities you are in

Now lets see if others find you...

- Write your AS number on a sheet of paper
- All stand up and form a circle
- Give the person opposite to you your AS number
- and receive their AS number
- Use PeeringDB to learn about
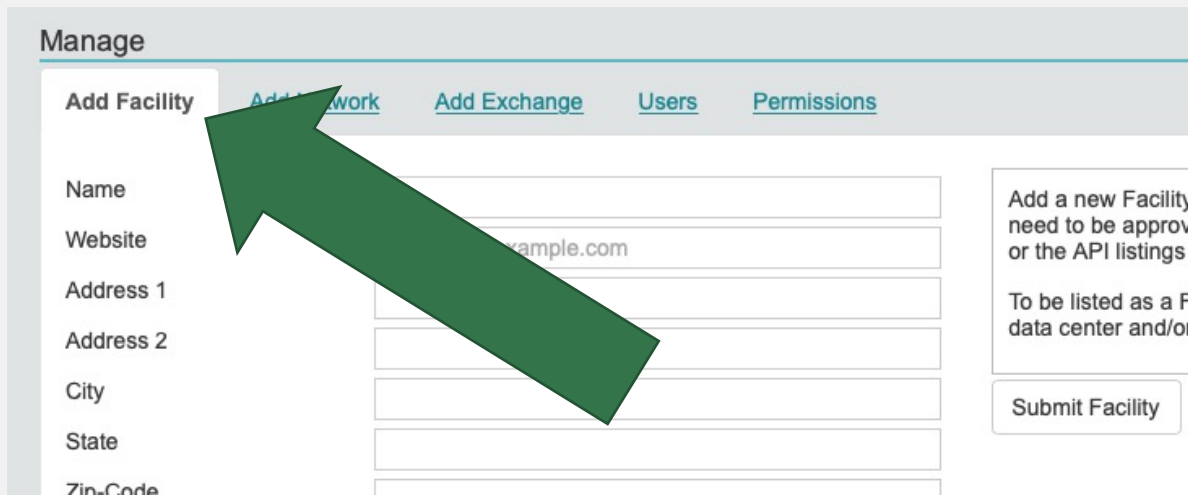 - Their organization
  - Their network
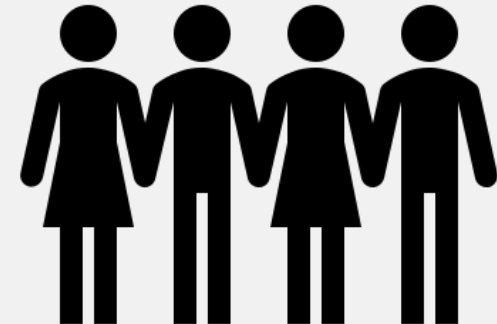
What to find out

- You should answer the following questions:
  - What is the main business of their organization / network
  - What is their peering policy
  - What is the size of the networks in terms of
    - Traffic
    - Prefixes
  - Where are they present
    - IXPs
    - Facilities
  - Would you peer with them?
    - According to your own peering policy
    - Why? / Why not?

Present what you have learned

- Present to the group what you have learned
- About the organization and network you have received
- The person who has entered the information checks
  - If everything is correct
  - If anything important is missing

Add your facility

- If you run your own datacenter
- Why not add it to PeeringDB?
- Go to your organization page
- Scroll down to „Manage"
- Choose „Add Facility"

Add your facility

Manage

Add Facility | Add Network | Add Exchange | Users | Permissions

Name | ACME Alternative Datacenter
Website | http://www.acme.example
Address 1 | Old Road 301
Address 2 |
City | Vienna
State |
Zip-Code | A-1001
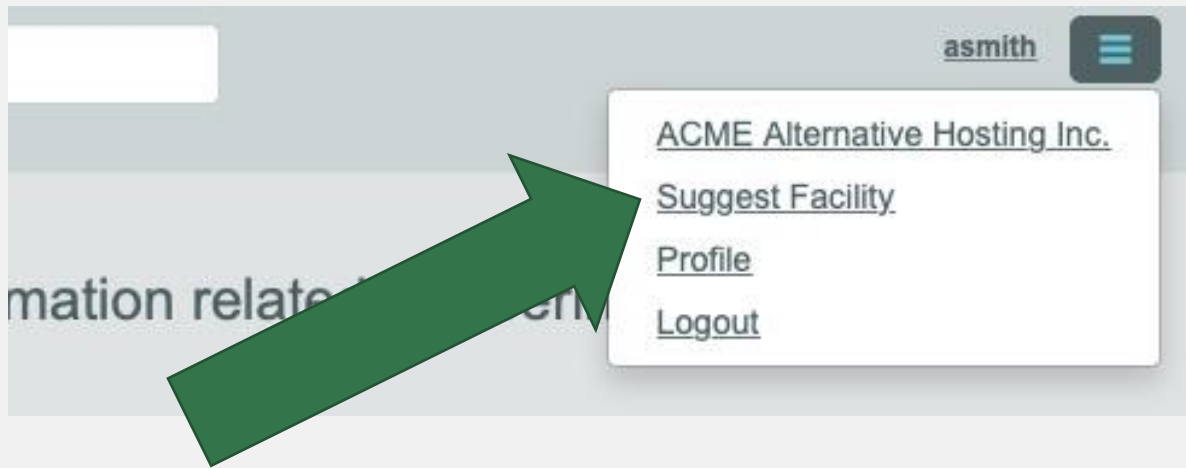Country | Austria
CLLI Code |
NPA-NXX |

Add a new Facility to your Organization. Note that the newly created Facility will need to be approved by PeeringDB staff before it will appear in the search results or the API listings

To be listed as a Facility in PeeringDB we would expect that you offer colocation, data center and/or meet-me-room services to the public.

Submit Facility

- Fill in applicable fields
- CLLI and NPA-NXX: for USA only
- Click „Submit Facility"
- Entry will be reviewed
- And added or declined

Suggesting a facility

- For facilities not your own
- But you are in or know about
- Choose „Suggest Facility"
- Needs to be reviewed by PeeringDB staff

Suggesting a facility

Name	ACME Alternative Datacenter
Website	http://www.acme.example
Address 1	Old Road 301
Address 2	
City	Vienna
State	
Zip-Code	A-1001
Country	Austria
CLLI Code	
NPA-NXX	

Suggest Facility to be added to the database. Your suggestion will be reviewed by the PeeringDB Administration Committee. It will then either be finalized and entered into the database, or declined. No further action is required on your part.

In order to be approved we would expect that the suggested Facility offers colocation, data center and/or meet-me-room services to the public.

Suggest Facility

- Fill in applicable fields
- CLLI and NPA-NXX: for USA only
- Click „Suggest Facility"
- Entry will be reviewed
- And added or declined

Adding users

- You do not have to be the only person working with PeeringDB
- Other users from your organization may also register!
- Users can be „admin" or „member"
  - The first user automatically will be an „admin"
- Administrators are allowed to edit all fields (of your organization)
- Members rights can be as restrictive or as open as you need them to be
- Let's try it out
- Request affiliation with the organization you just presented

Affiliate with an organization

- Go to your profile page (1)
- Request affiliation
  - Either use the AS number (2)
  - Or name and select (3)
  - Click on „Affiliate" (4)
- Admin of organization gets an email
- And either approves or denies

Approve affiliation requests

- Go to your organization page
- Scroll down to the „manage" section
- Click on the „Users" tab
- Either approve or deny new users

User administration

- Users can be admins or members
- Use the dropdown to change
- For members – you can add permissions
- Use the permissions tab to grant create, update and/or delete to selected of any entities
- Do not forget to „save" your changes

Removing Users

- Be sure you are logged in as an admin
- Go to your organization page
- Scroll down to the „manage" section
- Click on the „Users" tab
- Click on „Remove" on the right side
- And do not forget to „save"
- The user is only deleted from your organization
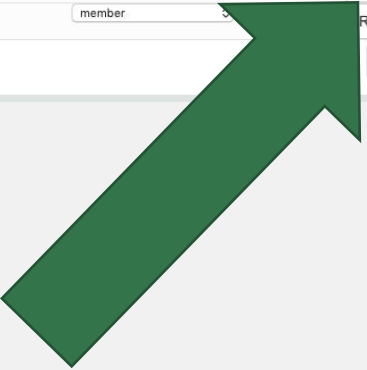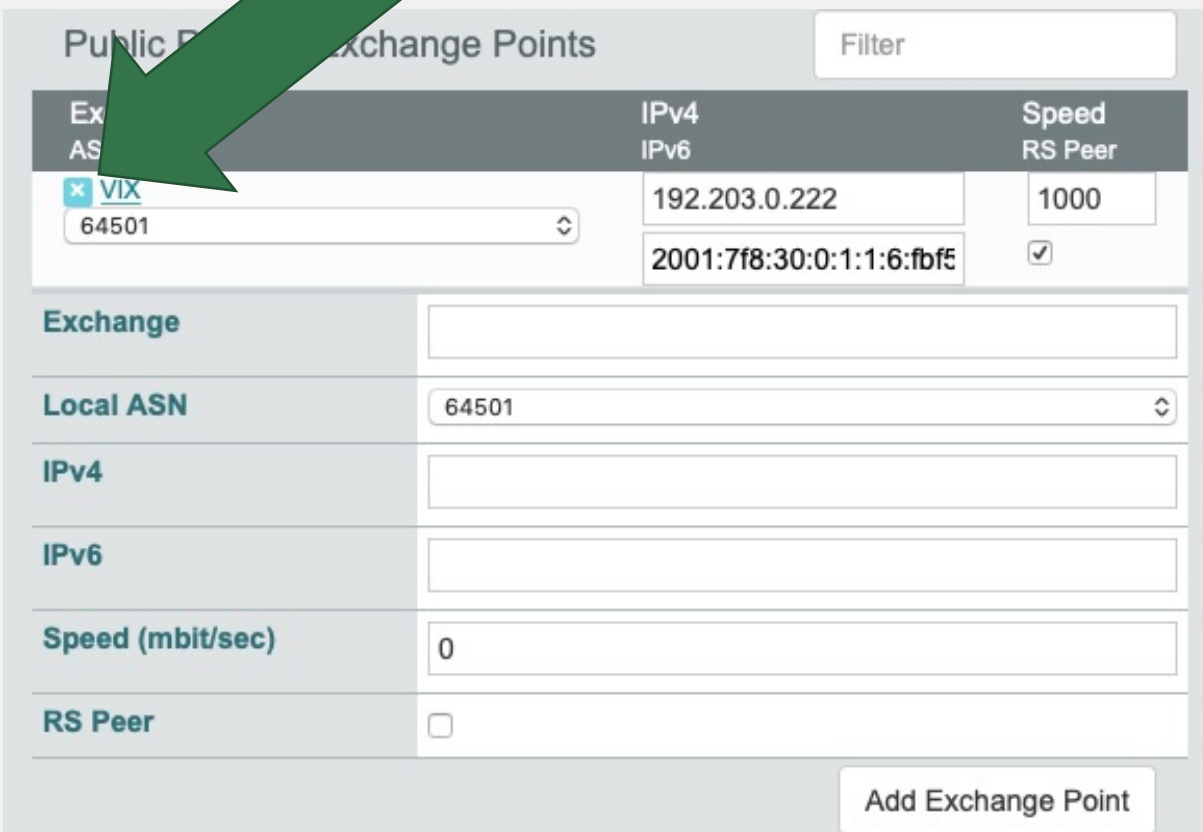
More removing...

- If you leave an internet exchange:
    – please remove your peering IP addresses

- Go to your network page

- Click on „Edit" (top right)

- Click on the ❌ beside the entry of the exchange

- Confirm and do not forget to „Save"

More removing...

- Facilities, Contacts, all the same
- Click on „Edit"
- Click on the remove symbol at the entry
- Click on "Save"

Removing – more information

- Objects are only *marked deleted*
- ***You cannot simply re-add them***
- Please contact support@peeringdb.com if you need help