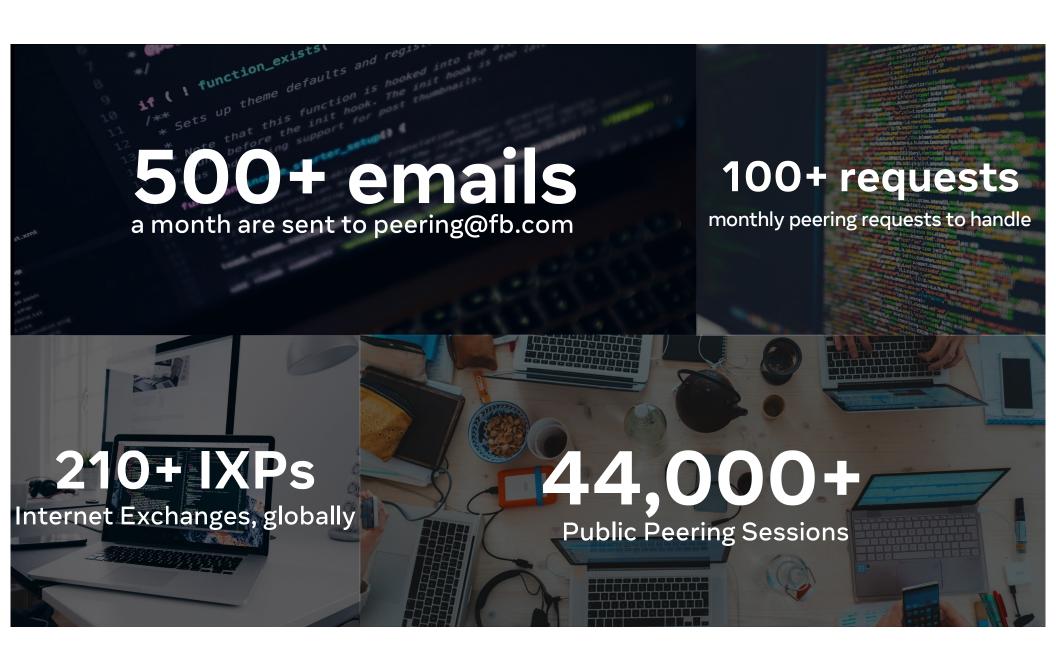
Automating peering@

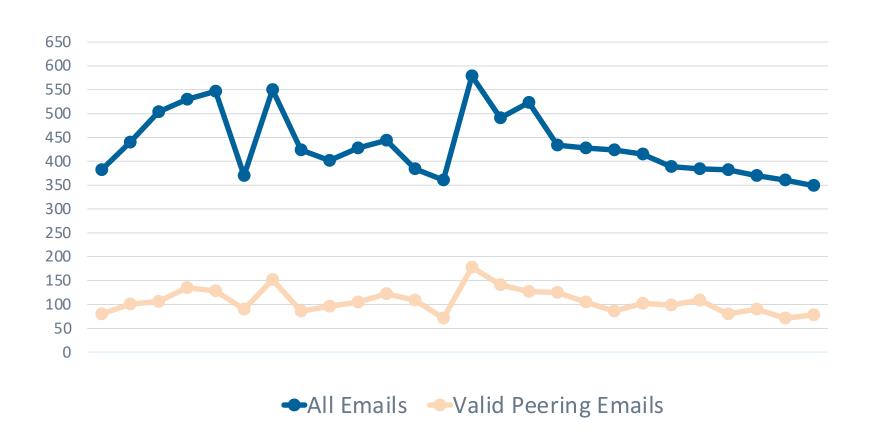
Streamlining and scaling the handling of Peering Requests

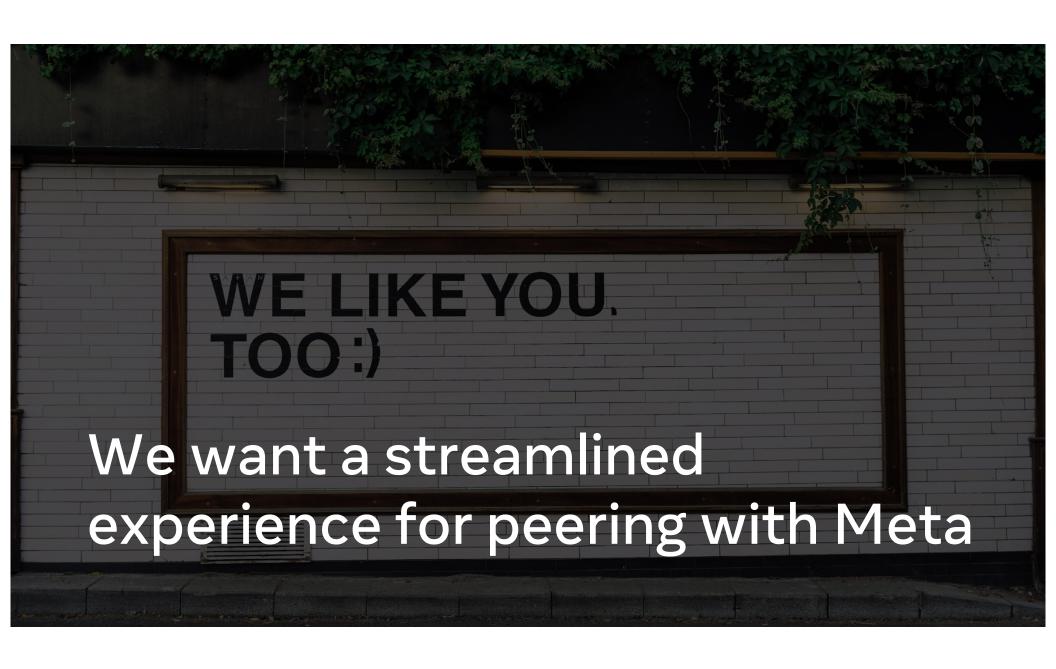
Jenny Ramseyer, Ben Ryall NANOG 85, Montreal 6th June 2022

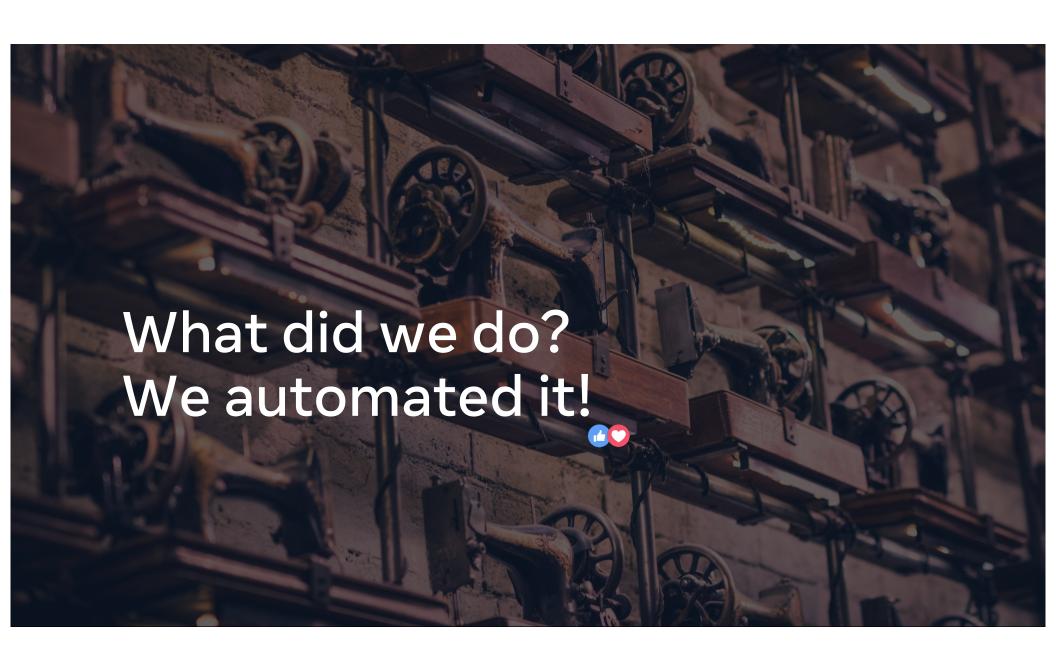




Peering@ Emails







What does it look like?

Request Public Peering X

Public Peering Sessions

Select all the exchanges you wish to peer at

		Exchange ↑↓	Traffic 30d	6 ↑↓	FB IP ↑↓	Peer IP ↑↓	BGP Session Status	4
>		SOX Serbia	0 bps				Not Established	Θ
~	~	Boston Internet	0 bps				Not Established	Θ
	~	Boston Internet	0 bps		2001:504:24:1::80a6:1	2001:504:24:1::80a6:1	Not Configured	<u> </u>
	✓	Boston Internet	0 bps		2001:504:24:1::80a6:1	2001:504:24:1::80a6:2	Not Configured	\triangle
	✓	Boston Internet	0 bps		206.108.236.53	206.108.236.53	Not Configured	\triangle
	✓	Boston Internet	0 bps		206.108.236.53	206.108.236.88	Not Configured	\triangle
	✓	Boston Internet	0 bps		2001:504:24:1::80a6:2	2001:504:24:1::80a6:1	Not Configured	\triangle
	~	Boston Internet	0 bps		2001:504:24:1::80a6:2	2001:504:24:1::80a6:2	Not Configured	\triangle

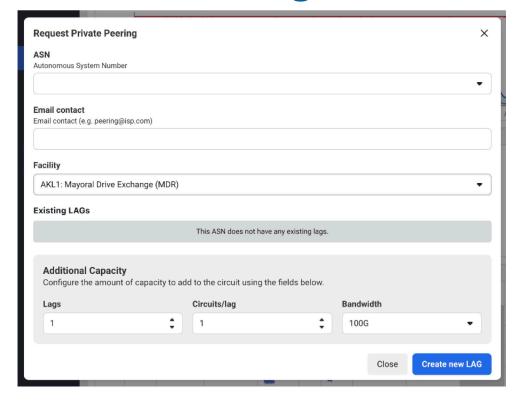
DE-CIX... 0 bps

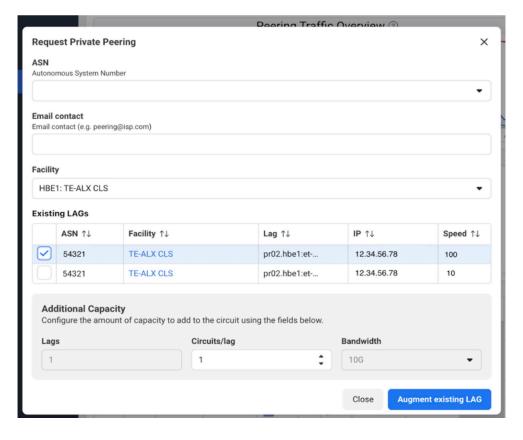
Not Established
Not Established

Not Established

Close Request Public Peering

Private Peering





What happens if I email peering@ now?

Thanks for your interest in peering with Meta.

Please send us any peering requests via our dedicated page at https://www.facebook.com/peering/

We rely on PeeringDB data for configuration generation, so please make sure your PeeringDB record is up to date before requesting peering.

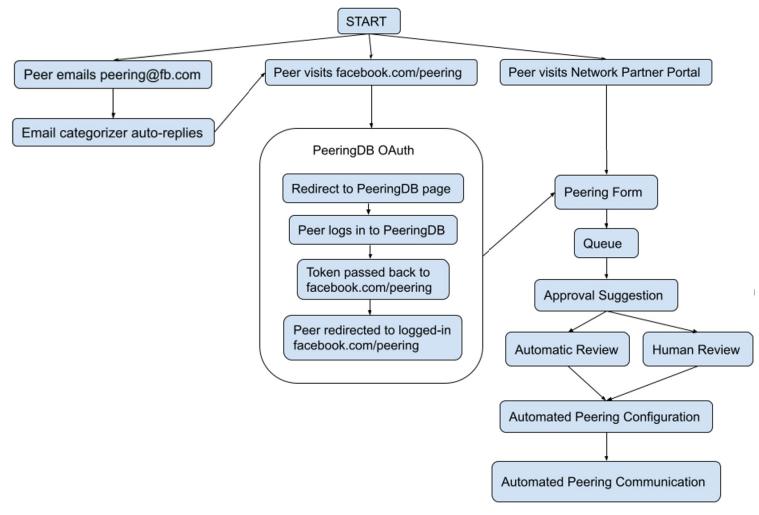
Our complete peering information can be found at: http://as32934.peeringdb.com and http://as63293.peeringdb.com

Best regards,

_

Meta Peering

What happens to my peering request?



Automation Impact... Since April 2021 5284 emails 1526 automated requests 1525 approved 17003 sessions auto configured

Considerations...

01

Queuing System

Initially have all peering requests human reviewed, gradually moving to automated approvals

02

Relying on PeeringDB

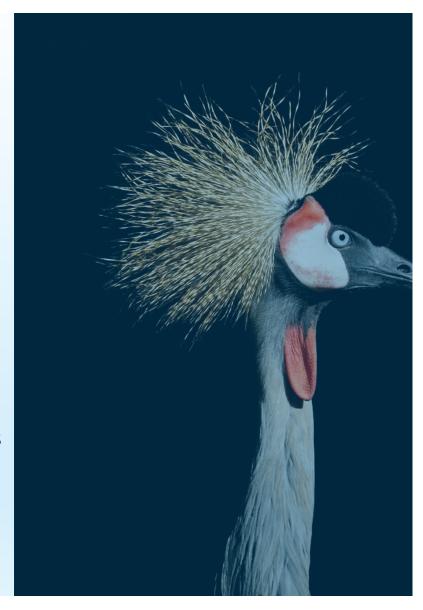
We already rely on PeeringDB data already for tools feeding our session automation 03

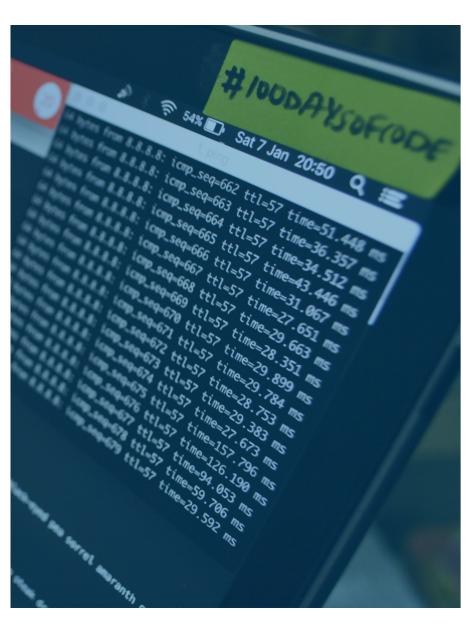
No Facebook account

Wanted to ensure that having a Facebook account was not a requirement

You should do this too!

- See all your BGP sessions in one place
- Configure new BGP sessions
- Everyone has a PeeringDB account, right?
- PeeringDB OAuth is easy to implement it took us about a day
- Others are using PeeringDB Oauth too, such as IXP Manager and Peering Manager
- Automation saves time!





Components to do this

- Tool to **generate configs** per-peer
- Automation to push config
- System to **monitor** BGP session status
- Workflow engine to coordinate all steps
- Landing page for peers to request sessions

Industry Standard

01

PeeringDB Login

Peering DB OAuth as the standard authentication service for peering

02

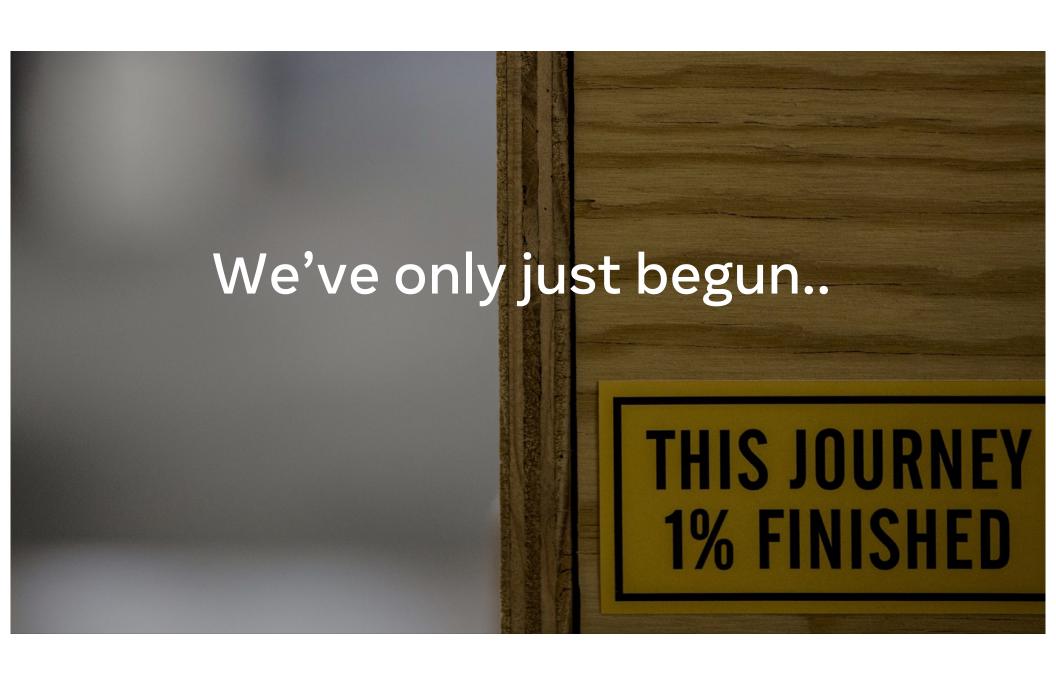
Open-Source Tools

Peering Manager,
Peering DB OAuth,
Peering DB Tools

03

Programmatic API

Remove human element from routine peering requests.



facebook.com/peering

