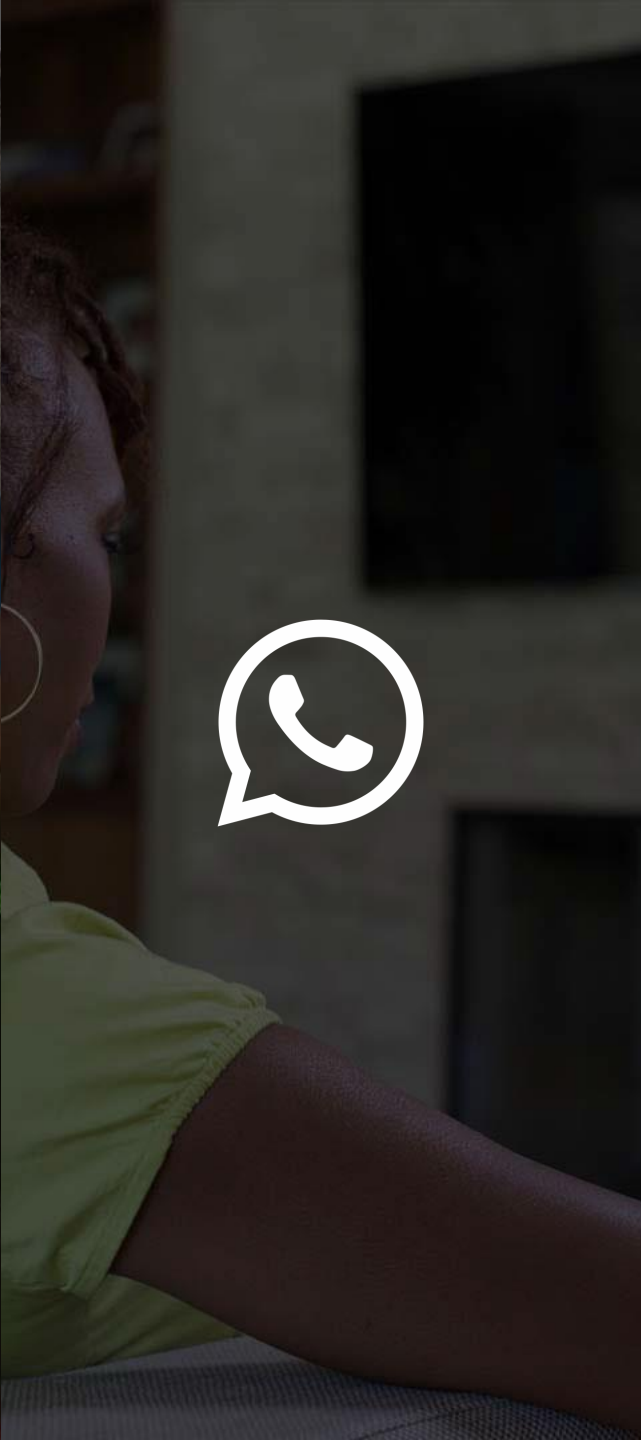
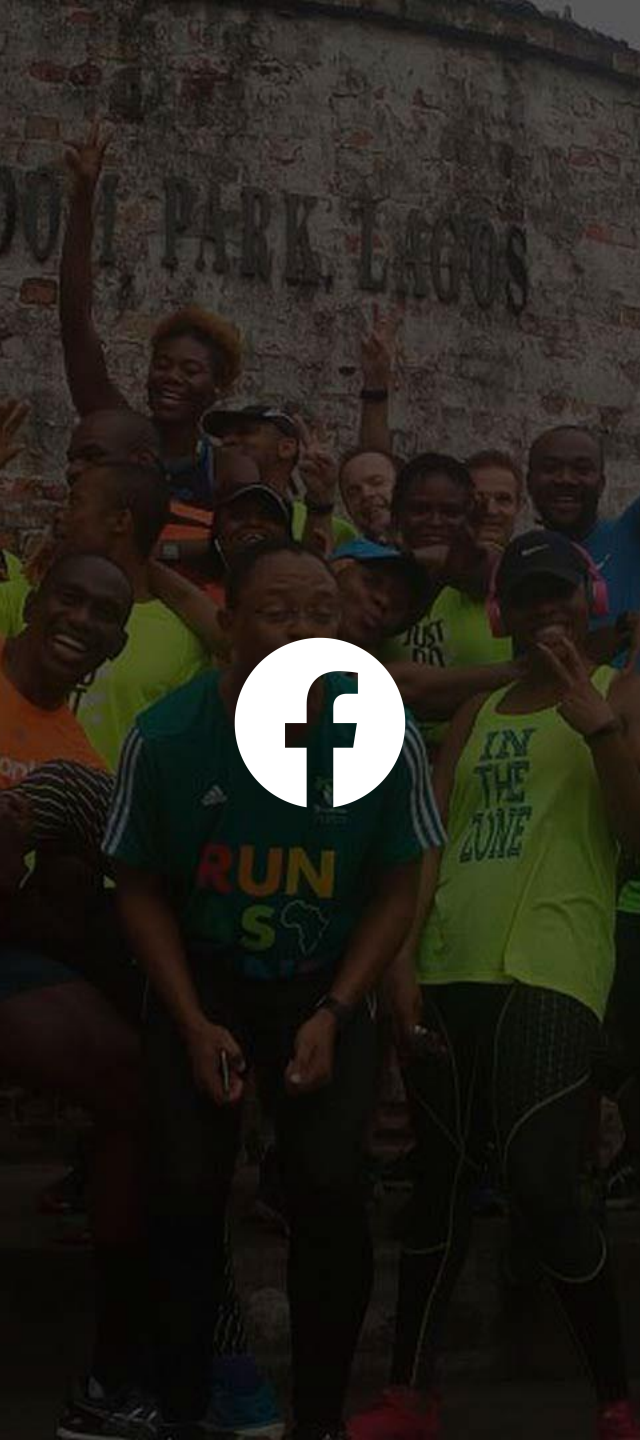
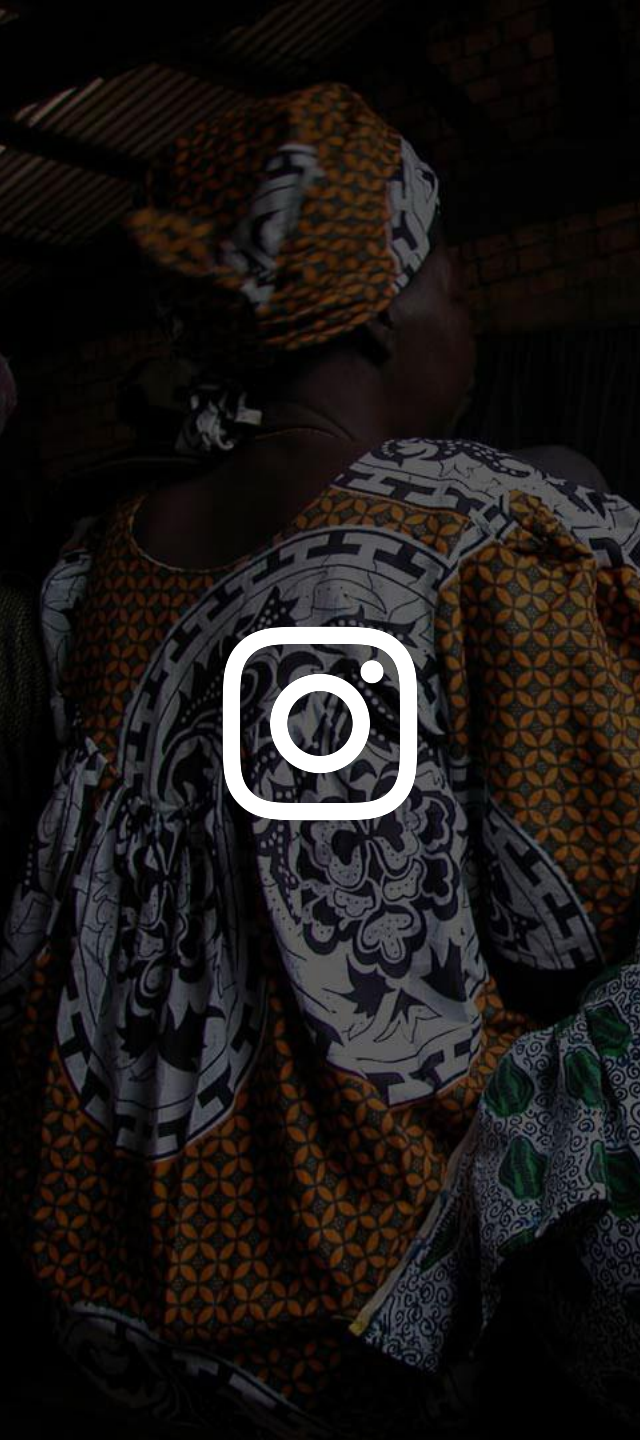


Automating peering@

Streamlining and scaling the handling of Peering Requests

Ben Ryall
ngPIF, Lagos, Nigeria
25 October 2022

FACEBOOK     






```
function_exists() {  
    // ...  
    if ( ! function_exists(  
    /** Sets up theme defaults and register  
    * Note that this function is hooked into the  
    * before the init hook. The init hook is too  
    * late for supporting support for post thumbnails.  
    * ...  
    }  
}
```

500+ emails

a month are sent to peering@fb.com

100+ requests

monthly peering requests to handle



210+ IXPs

Internet Exchanges, globally

44,000+

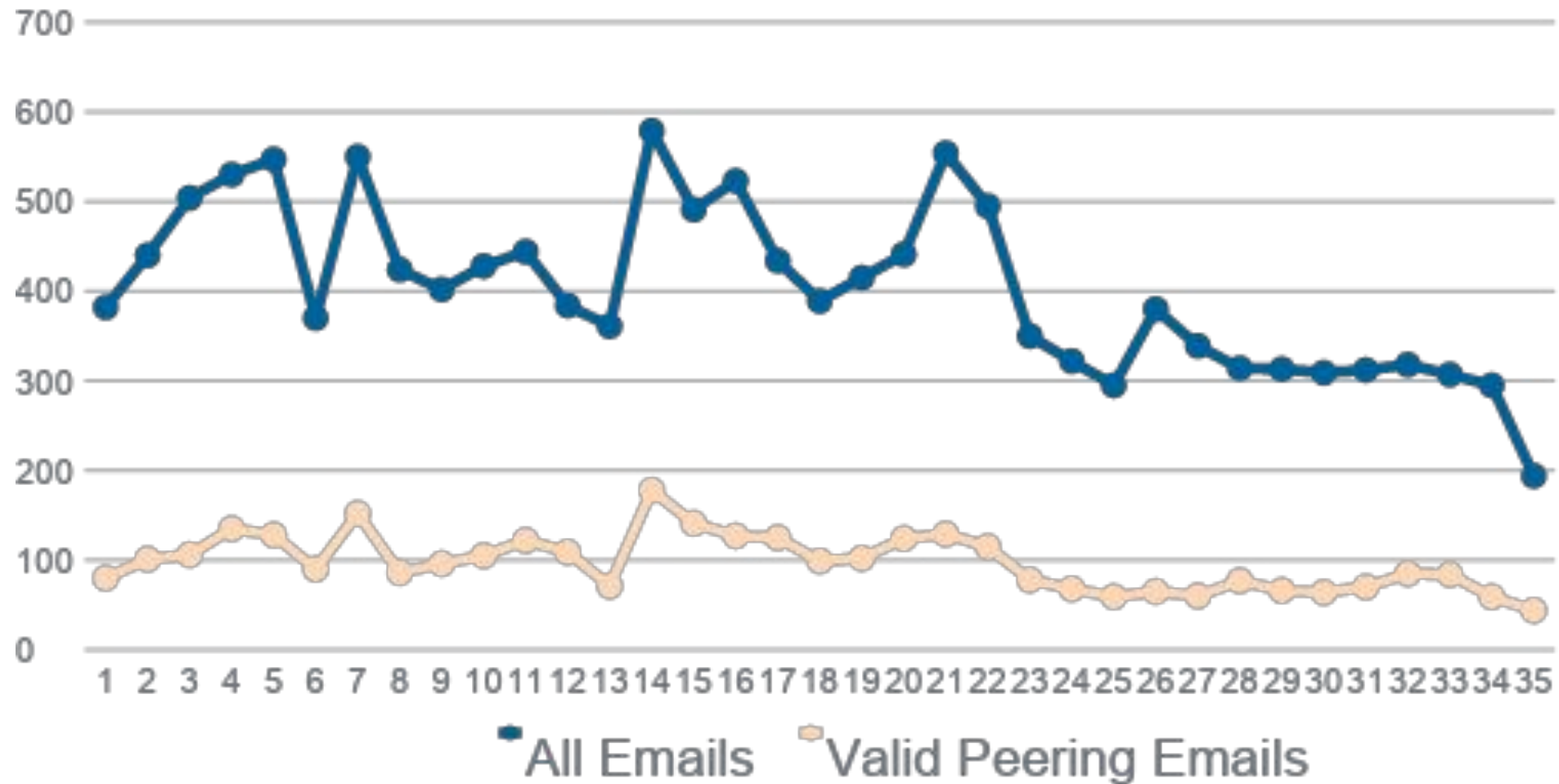
Public Peering Sessions

A photograph of a brick wall with a dark wooden frame containing a sign. Above the wall, there are green vines and leaves. The sign has the text 'WE LIKE YOU, TOO :)' in large, bold, black letters. The word 'SATAN' is written in small letters above the 'W'.

S A T A N
**WE LIKE YOU,
TOO :)**

**We want a streamlined experience
for peering with Meta**

Peering@ Emails



What studio we need to do!



What does it look like?

Peering Requests

Request Public Peering



Public Peering Sessions

Select all the exchanges you wish to peer at

		Exchange ↑↓	Traffic 30d ⓘ ↑↓	FB IP ↑↓	Peer IP ↑↓	BGP Session Status ↓
>	<input type="checkbox"/>	SOX Serbia	0 bps			Not Established
▼	<input checked="" type="checkbox"/>	Boston Internet...	0 bps			Not Established
	<input checked="" type="checkbox"/>	Boston Internet...	0 bps	2001:504:24:1::80a6:1	2001:504:24:1::80a6:1	Not Configured
	<input checked="" type="checkbox"/>	Boston Internet...	0 bps	2001:504:24:1::80a6:1	2001:504:24:1::80a6:2	Not Configured
	<input checked="" type="checkbox"/>	Boston Internet...	0 bps	206.108.236.53	206.108.236.53	Not Configured
	<input checked="" type="checkbox"/>	Boston Internet...	0 bps	206.108.236.53	206.108.236.88	Not Configured
	<input checked="" type="checkbox"/>	Boston Internet...	0 bps	2001:504:24:1::80a6:2	2001:504:24:1::80a6:1	Not Configured
	<input checked="" type="checkbox"/>	Boston Internet...	0 bps	2001:504:24:1::80a6:2	2001:504:24:1::80a6:2	Not Configured

>	<input checked="" type="checkbox"/>	DE-CIX...	0 bps			Not Established
>	<input checked="" type="checkbox"/>	BCIX: BCIX...	0 bps			Not Established

Close

Request Public Peering

Private Peering

Request Private Peering

ASN
Autonomous System Number

Email contact
Email contact (e.g. peering@isp.com)

Facility
AKL1: Mayoral Drive Exchange (MDR)

Existing LAGs
This ASN does not have any existing lags.

Additional Capacity
Configure the amount of capacity to add to the circuit using the fields below.

Lags	Circuits/lag	Bandwidth
1	1	100G

Close Create new LAG

32934

Email contact
Email contact (e.g. peering@isp.com)
ramseyer@fb.com

Facility

Existing LAGs

	ASN ↑↓	Facility ↑↓	Router:LAG ↑↓	IP ↑↓	Speed ↑↓
<input type="checkbox"/>	32934	Equinix AM5 - Amsterdam	pr04.ams3:et...		
<input type="checkbox"/>	32934	Equinix BG1 - Bogota	pr04.bog1:et...		
<input type="checkbox"/>	32934	GPX Mumbai 1	pr03.bom1:et...		
<input type="checkbox"/>	32934	NTT Com Jakarta (JKT2)	pr04.cgk1:et...		
<input type="checkbox"/>	32934	NTT Com Jakarta (JKT2)	pr04.cgk1:et...		
<input type="checkbox"/>	32934	Sify Greenfort - Noida	pr02.del1:et...		
<input type="checkbox"/>	32934	Equinix DA1 - Dallas	pr05.dfw1:et...		
<input type="checkbox"/>	32934	Digital Realty SJC (1525...	pr01.fml1:et-0/0/5		

21 rows

Capacity Configuration
Each LAG usually connects to a separate Peering Router on Meta side. Configure your requirements below:

# LAGs	# Circuits in each LAG	Circuit Speed
---------------	-------------------------------	----------------------

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

5958 emails

2118 automated requests

Automation Impact...

Since April 2021

1986 approved

20039 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!**



Industry Standard

01

PeeringDB Login

PeeringDB OAuth as the standard authentication service for peering

02

Open-Source Tools

Peering Manager, PeeringDB OAuth, PeeringDB Tools

03

Programmatic API

Remove human element from routine peering requests.

We've only just begun..

**THIS JOURNEY
1% FINISHED**

Coming soon... MNA Requests!

Enter Caching Program

ASN

Additional ASNs

Organization Name

Network Type

Cache Deployment Planning
Enter the planned location of deployment for the cache.


State, Province, or Region

City

Country or Territory

Contact Information
Enter your contact information to connect with us.

Name

Er 

Job Title

Additional Email Contacts

Note:

Enter Caching Program

ASN

Additional ASNs

Organization Name

Network Type

Cache Deployment Planning

Enter the planned location of deployment for the cache.

State, Province, or Region

City

Country or Territory

facebook.com/peering



Questions?