

#RIPEstat10

Lightning Talk: Looking back at 10 years of RIPEstat

10 Years of RIPEstat





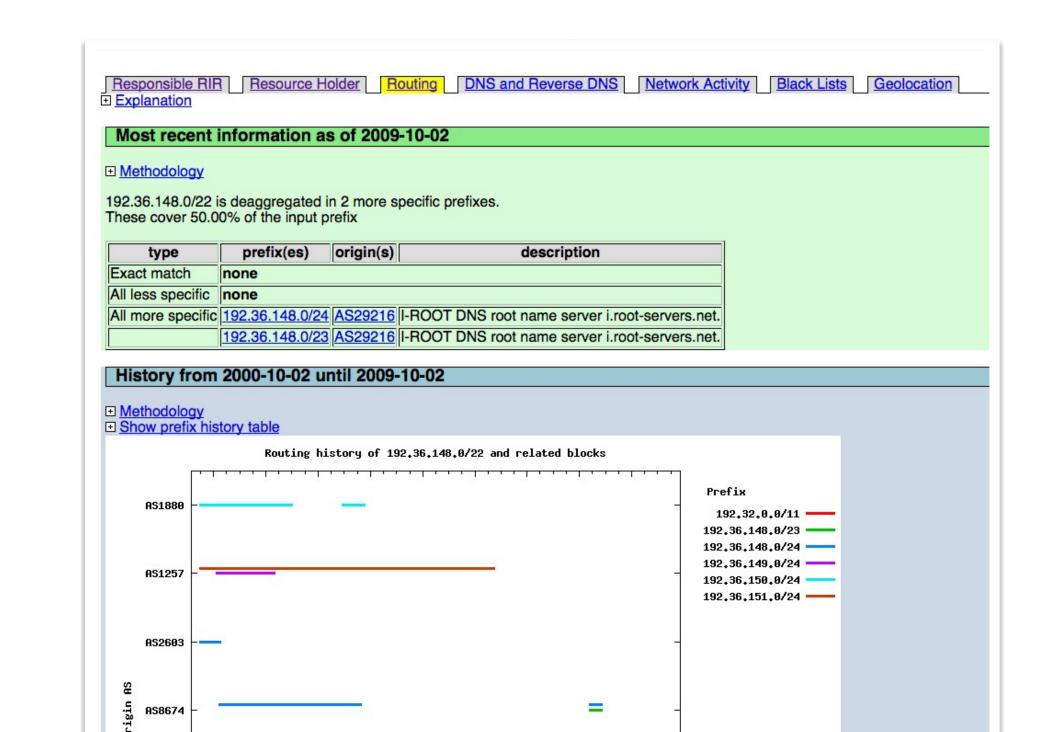
Pre-RIPEstat (~2009): REX



- REX = Resource EXplainer
 - "...REX is a one-stop-shop for almost all the information you ever wanted to know about Internet number resources."
 - Powered by INRDB = "...a non-conventional database..."²



Image: Freepik.com



2010: Work on RIPEstat Started



Problem Statement

 Many data sources for Internet number resources are scattered across different platforms and tools

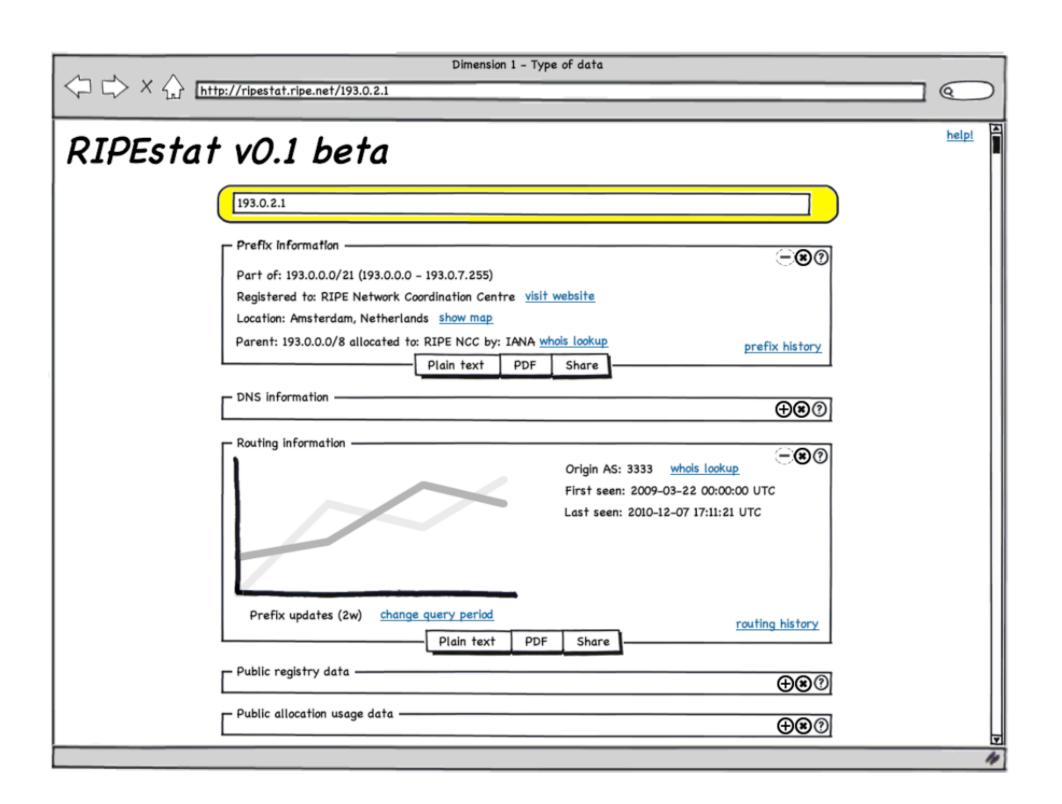


2010: Work on RIPEstat Started



Vision

- "...basic idea is to combine all information services, as well as other public data sources, into one easy-to-use interface."3
- Two main types of information
 - "various STATistics related to networking"
 - "the **STATus** of various aspects in the network"³



25 Jan 2011: First Public Demo

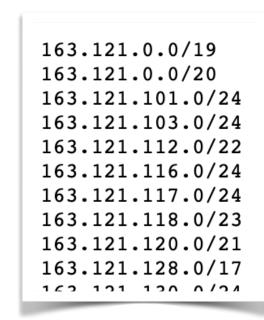


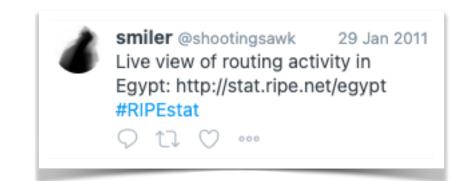
RIPE Int	ternet Coordination Data & Tools COORDINATION CENTRE	LIR Services RIPE Community Site M	lap i Contact i Help i RIPE Database Search
	Enter an AS number or prefix Your network: AS3303, 0.0.0.0/1	Example: IPv4, IPv6, ASN related stats & status — stat! learn more	Sign in
Result Boxes for 140.78.0.0/16 Prefix-Overview Whois Object-Browser Address-Space-Hierarchy Routing-History Address-Space-Usage Geoloc Geoloc-History Looking-Glass Reverse-Dns Blacklist Visibility Bgp-Update-Activity Related-Prefixes Prefix-Routing-Consistency Allocation-History	Prefix-Over	view (140.78.0.0/16)	The current top queries - 140.78.0.0/16 - 127.0.0.0/16
	Download raw data: yaml	Show: link I specification I methodology	Your latest queries - 140.78.0.0/16
	Whois (140.78.0.0/16)		
	Download raw data: yaml	Show: link I specification I methodology	
	Object-Browser (140.78.0.0/16)		
	Download raw data: yaml	Show: link I specification I methodology	
	Address-Space-Hierarchy (140.78.0.0/16)		
	Download raw data: yaml	Show: link I specification I methodology	

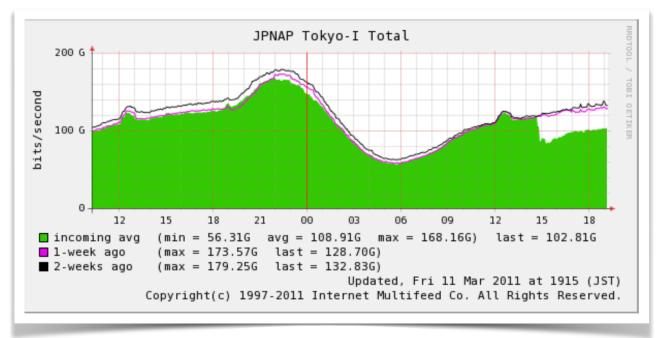
2011: Hitting the Ground Running

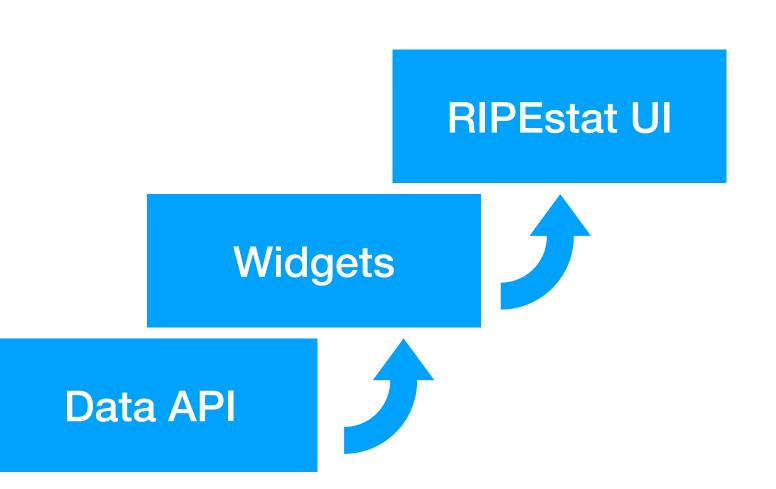


- 27 Jan: Egyptian Internet outage
 - https://stat.ripe.net/events/egypt
- 11 March: Earthquake in Japan
 - https://stat.ripe.net/events/japan-earthquake
- Nov: Introduction of data API
- Dec: Introduction of widgets
- Usage: 10k requests/d









2012

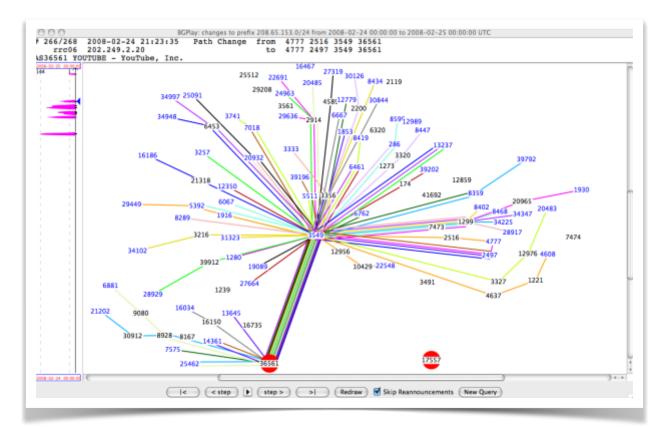


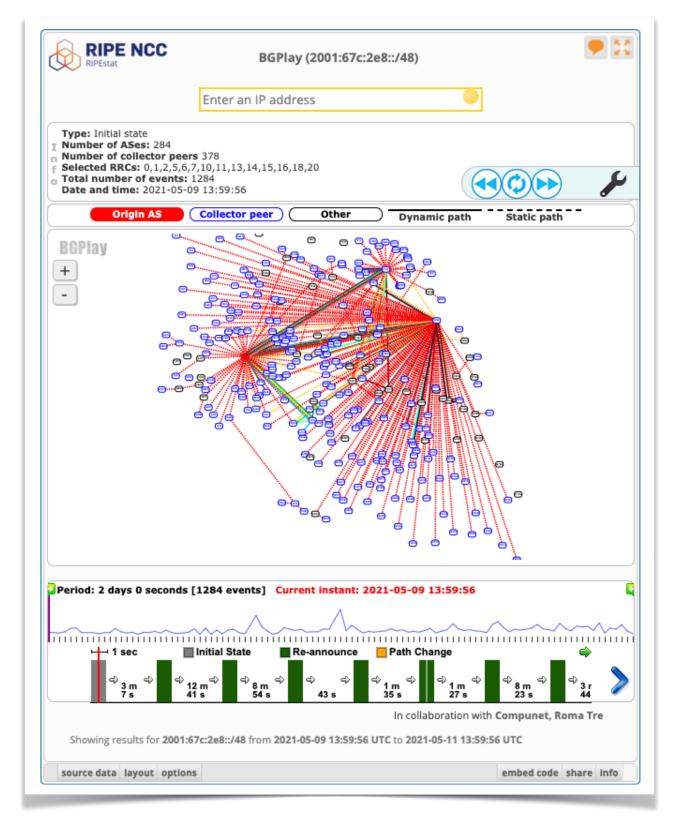
Skipped but see MAT WG session for this year!

2013: The Mighty BGPlay

 First implementation as Java Applet by Roma Tre University

 Reimplementation of BGPlay together with Compunet Research Lab (Roma Tre University) as RIPEstat widget

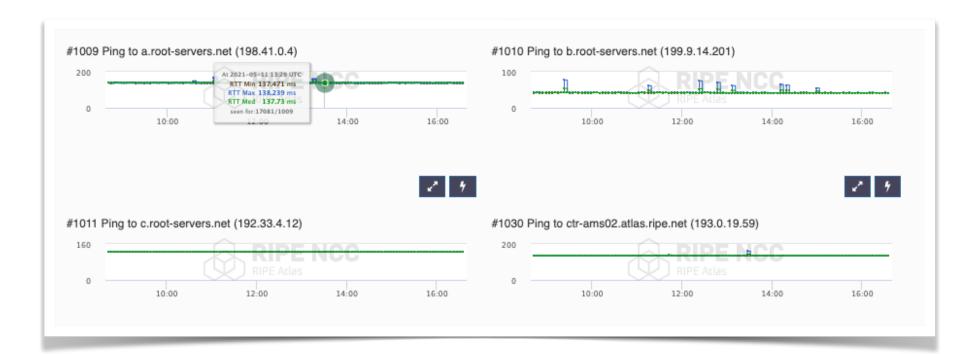


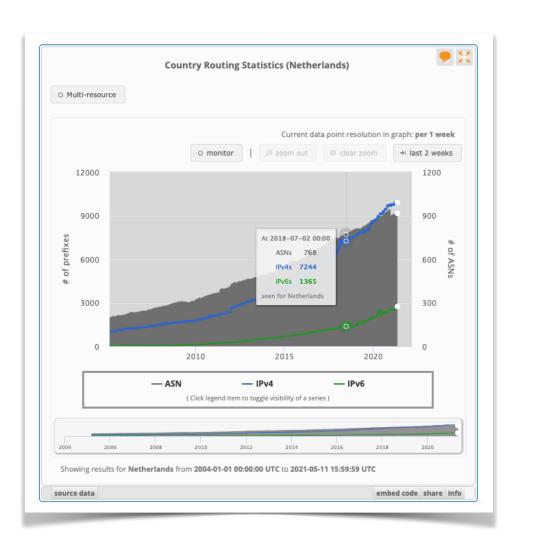


2013: There's More!



- Integration in RIPE Atlas
 Probe Traffic and all built-in measurement graphs
- Added support for countries and Country Routing Stats widget
- Usage: first 1M requests/d





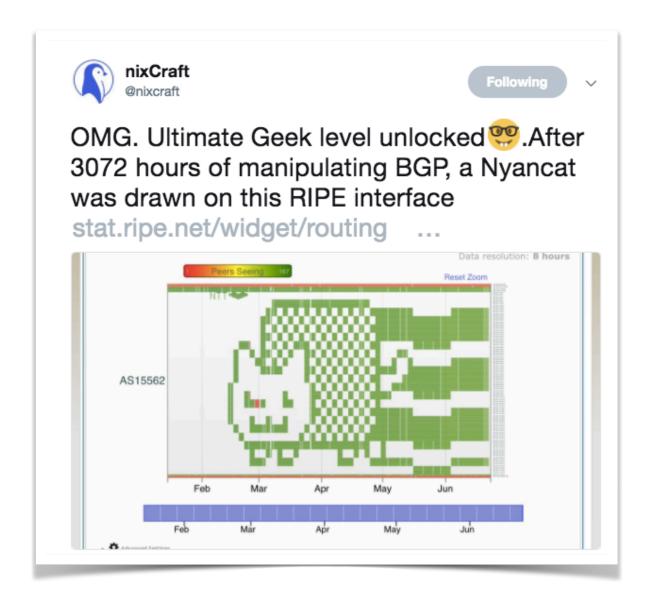
2014 - 2016



Skipped but see MAT WG session for these years!

2017: Next!

- June: two longest service interruptions (four and three hours)
- BGP Meets Cat⁴
- Release of RIPEstat Country Stats (back then "Country Reports")
- Changes to RIS⁷ with following backend changes for RIPEstat
- Usage: 50M requests/d





2018

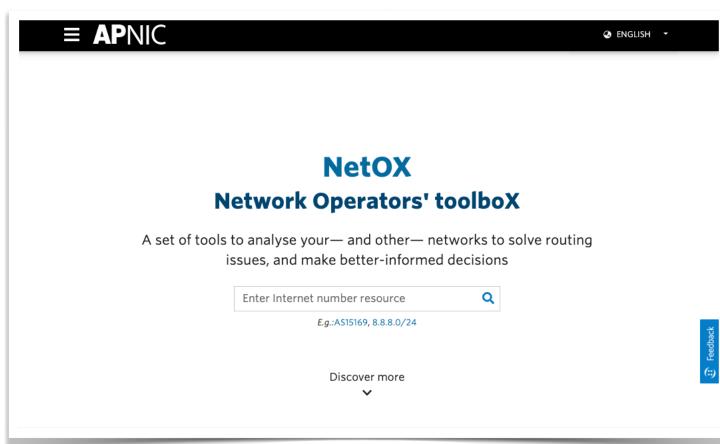


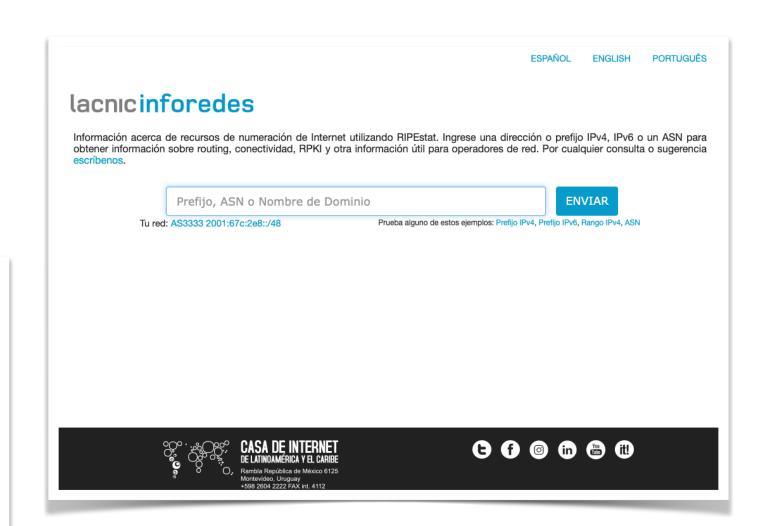
Skipped but see MAT WG session for this year!

2019: Reaching New Heights



- Dedicated UI Engineer joined
- Works started for a new UI
- RIPEstat inter-RIR collaboration started:
 - May: NetOX (APNIC)
 https://netox.apnic.net
 - August: InfoRedes (LACNIC)
 https://inforedes.labs.lacnic.net/





19 Sept 2019: 100M Daily Requests



100 000 000 requests in one day

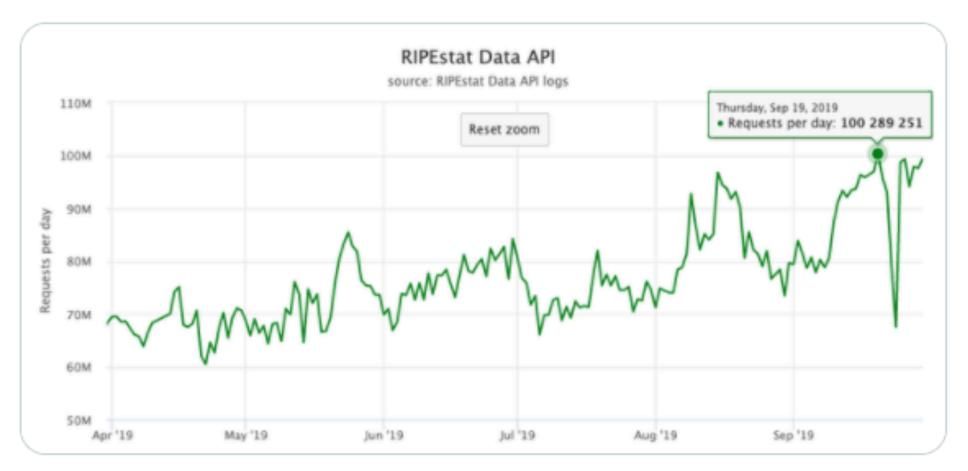


100 000 000 requests/day mark was officially reached on 19 September 2019.

Here's the obligatory (virtual) piece of cake -> 🦲



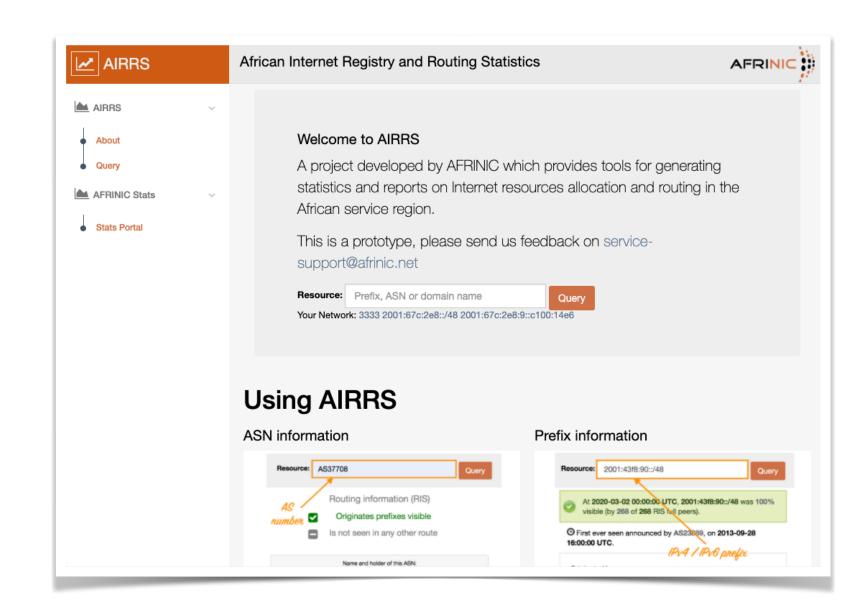
stat.ripe.net/usage-statisti... #RIPEstat #internet #opendata



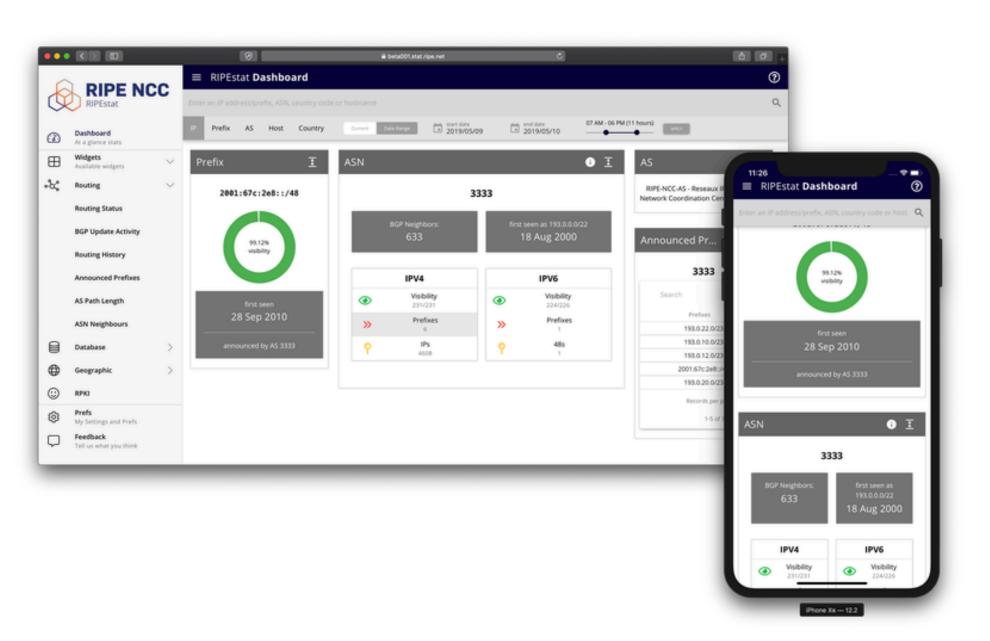
Christian Teuschel | RIPE 82 | May 2021

2020

- March: Collaboration with AFRINIC on AIRRS
 - https://airrs.afrinic.net/
- New UI has been released as beta release at RIPE 81





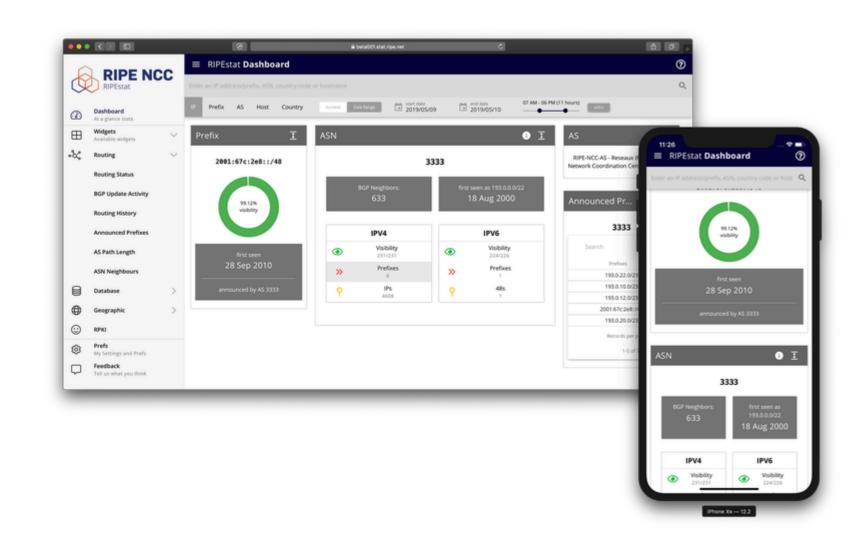


2021

10 Year Anniversary of RIPEstat

Release of new UI during RIPE 82





Outlook: 2021, 2022,...



- Expanding to the cloud
- Data API focus
 - Harmonising of API parameters
 - Data quality and service reliability
 - Update of documentation
- Revamp of BGPlay
- Widget API goes open source
- ML support for more insights
- More collaborations



Spelling

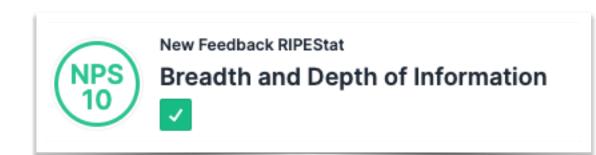


- There is RIPE NCC, RIPE DB, RIPE Atlas, RIPE Labs, etc.
- BUT there is

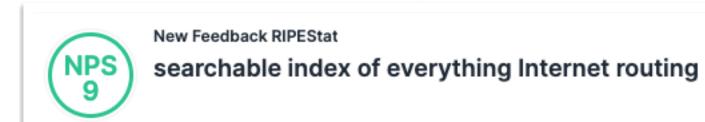
RIPEstat

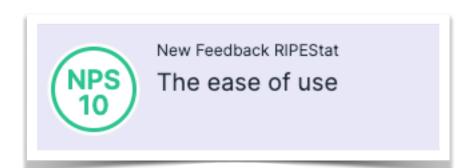
Please stick to the correct spelling for us and others.

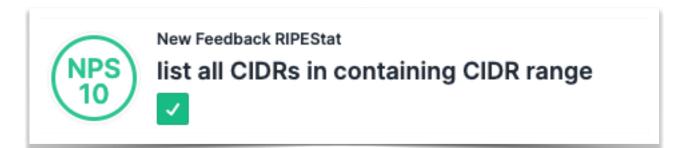
Thank you users!













New Feedback RIPEStat

global coverage, flexible search range, quick response

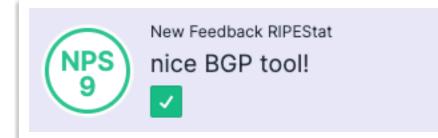


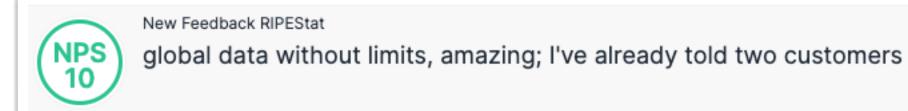




New Feedback RIPEStat

It gives me the data I was seeking.







New Feedback RIPESta

Awesome tools!!! Literally, the best out there. Please keep it free. Thanks.

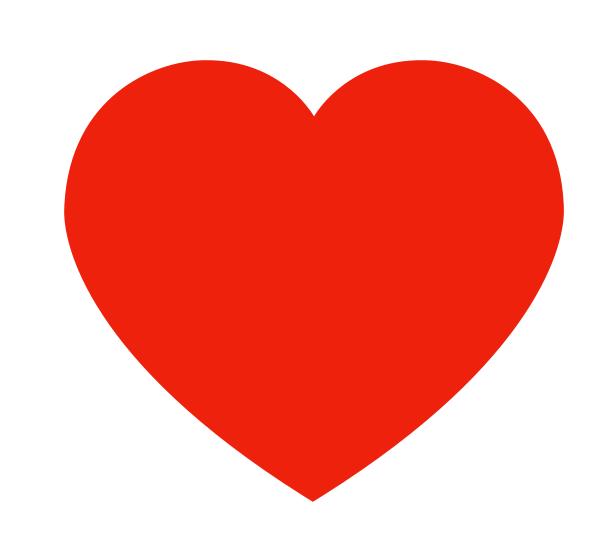


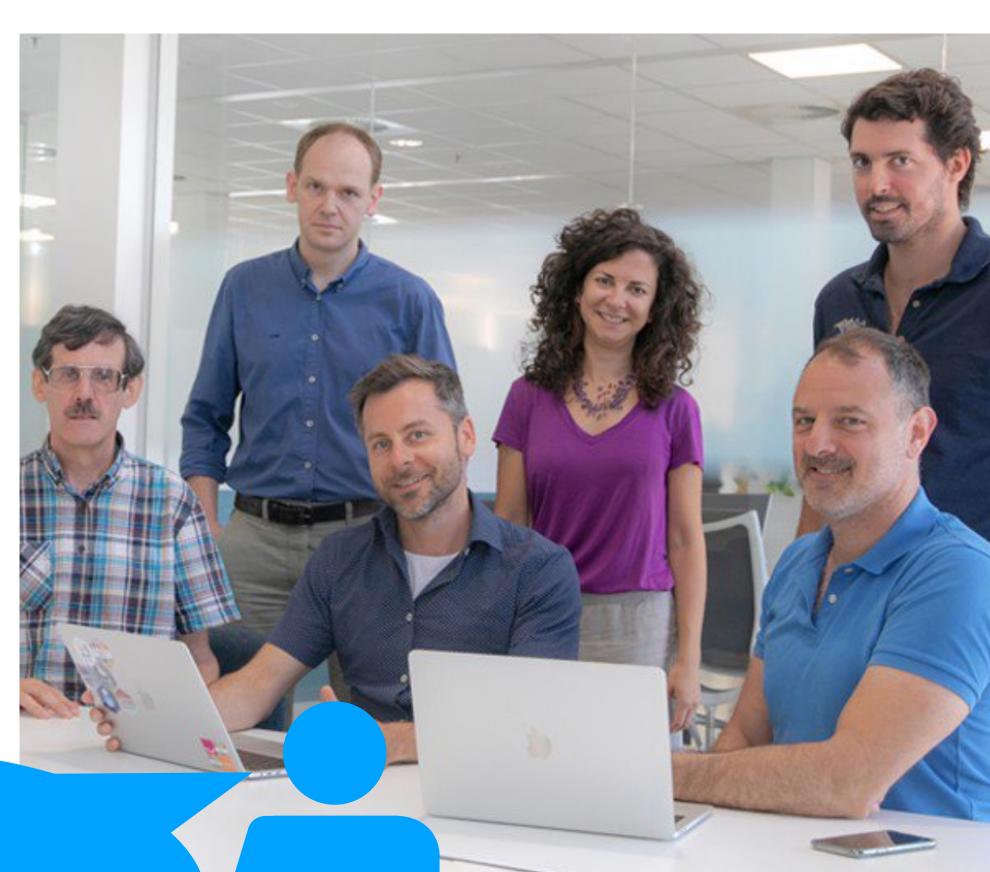
My heart **and my perpetual gratitude** go out to the entire Operation & Maintenance team of the RIPEstat Suite for providing us 'small players' with such a high-quality toolset that it gives us a survivable chance in today's extremely fluid Internet. I used The Suite on a regular basis to 'go-against-the-entropy' and to keep our network from falling apart.

searchable index of everything Internet routing

Thank you team!







We are hiring!

References



RIPE Labs

- 1: https://labs.ripe.net/author/kistel/rex-the-resource-explainer/
- 2: https://labs.ripe.net/author/kistel/intro-to-inrdb-the-internet-number-resource-database/
- 3: https://labs.ripe.net/author/mirjam/ripestat-live-demo-1/
- 4: https://labs.ripe.net/author/cteusche/bgp-meets-cat/



Questions



christian.teuschel@ripe.net @christian_toysh