

RIP

Viktor Naumov | 4 June | ENOG 16

RIPE NCC Tools Update

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RIPE Atlas

RIPE Atlas

- 10513 probes
 - 12 in Georgia
- 460 anchors
 - 1 in Georgia



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atlas.ripe.net/get-involved/become-a-sponsor/



RIPE Atlas VM Anchors

- 94 of 457 anchors are VMs
- Cloud VMs: Amazon connected, Google upcoming
- Apply: <u>https://atlas.ripe.net/get-involved/</u> <u>become-an-anchor-host/</u>

 Learn more about RIPE Atlas VM and https://labs.ripe.net/Members/alun_dat

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General	Network Built-ins	UDMs	
General Information		Connection & Traffic	
Id	6460		
Architectu	re centos	No data available for Probe # 6460 this time period	
Firmware Version	4970	₽ zoom out	
Router Typ	e None		
Shared Publicly	Yes		
User Tags		Connected Time	
System Tags	Anchor Resolves A Correctly Resolves AAAA Correctly IPv4 Works IPv6 Works IPv4 Capable IPv6 Capable IPv6 Capable IPv6 Stable 1 IPv6 Stable 1 IPv6 Stable 90d IPv6 Stable 90d	April May	

https://labs.ripe.net/Members/alun_davies/announcing-ripe-atlas-vm-anchors

Measurement UI Revamp

- 100% API-backed
- API performance and functionality improvements enabled soon

<u>labs.ripe.net/Members/jasper_den_hertog/new-design-and-</u> <u>functionality-for-the-ripe-atlas-measurement-detail-page</u>



Settings & Status Latest	Results Map Latencymon Downloads	
Overview	recurring IPv4 Ping "Ping measurement to silo.plainsp" id 18959281	~
Target	silo.plainspace.com	~
Ping Specific Settings	PACKETS: 3, SIZE: 48	~
Status & Timing	ONGOING from 2019-01-15T12:53:11Z every 240s	v
Probes	10 Requested / 10 Actually Participating	~
Tags & Projects		
Ownership & Costs	Public	~





Software Probes

- Beta testing over the summer
- Preparing the infrastructure
- Security review
- Can you help us package?
- Are you interested in deploying?
- Fill in the survey!
 - https://www.ripe.net/participate/forms/apply/atlas-probes/

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- DNS cookie support (API-only)
- Version 4 probe stock low, more coming soon
- Concluding most recent independent security review
- Working on RIPE Atlas data in the cloud, Google BigQuery
- Working on CDN support

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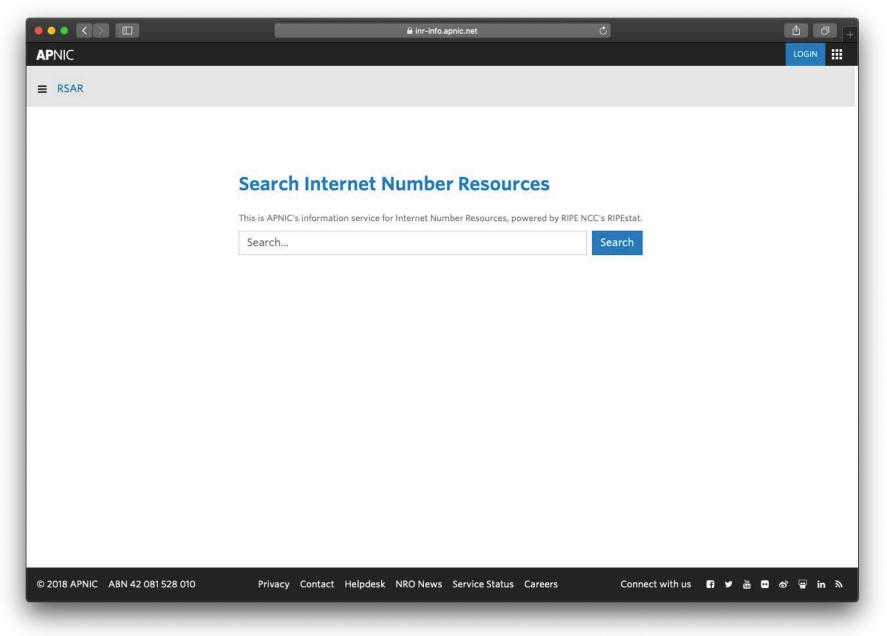


RIP



RIPEstat

RIPEstat - RIR Cooperation



Developed APNIC NetOX powered by RIPEstat

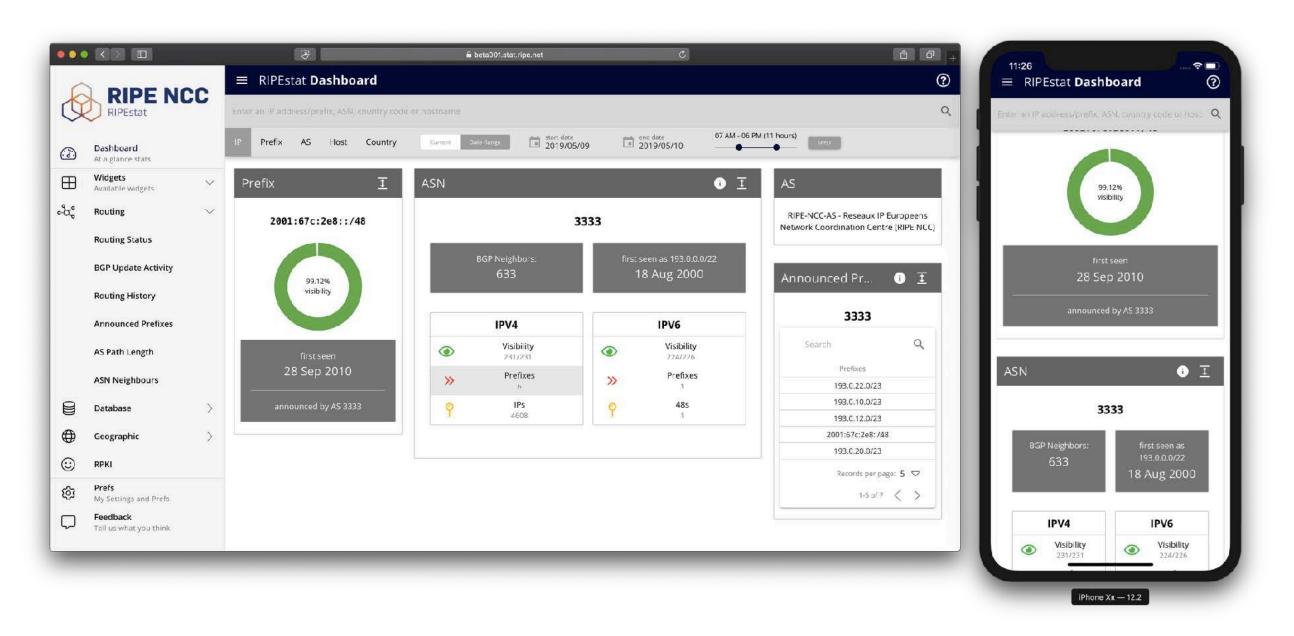
- https://netox.apnic.net
- More collaborative projects with other RIRs will follow

	Internet M	Number F	Pasource			
This is APNIC:			Resource	S		
AS4608	s information service fo	or Internet Number	Resources, power	ed by RIPE NCC's RIPEs		
At a Glance Ro	outing DNS	Anti Abuse	Database	Geographic	Activity	
Routing Status (AS46)	08)		O multi-resource	BGP Update Activ	vity (AS4608)	
At 2019-05-13 00:00:00 UTC, AS4608 wa and 100% of 224 IPv6 RIS full peers.	as visible to 100% of 2;	30 IPv4	Show in BGPlay		Current data	point resolution: 1 hour Show last 14 days
 G First ever seen as origin announcing 202.12.1 OB:00:00 UTC. Originated IPV4 prefixes: 8 Originated IPV6 prefixes: 10 Observed BGP neighbours: 273 Address space announced (IPv4): 6144 IPs Address space announced (IPv6): equiv. to 901 Address space announced (IPv6): equiv. to 901 Address for A\$4608 as of 2019-05-13 00:00:00 Results exclude routes with very low visibil peers seeing). 	117 /48s о итс		4000 3000 2000 1000 0 30. Ap	r 2. May 4. May 6 AS4608 from 2019-04-29	. May 8. May announce)	10. May 12. May





RIPEstat - UI Concept



Started to work on a new UI concept for RIPEstat

https://labs.ripe.net/Members/stephen_suess_1/ripestat-next-generation-ui

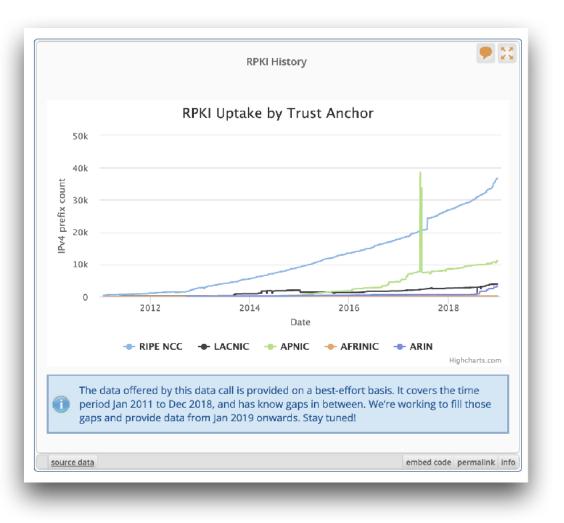






RIPEstat - New Features

- **RPKI** focus:
 - RPKI Validation support and integration in RIPEstat
 - **RPKI** History support



To see other new features follow us on Twitter: @NCC_RIPEstat

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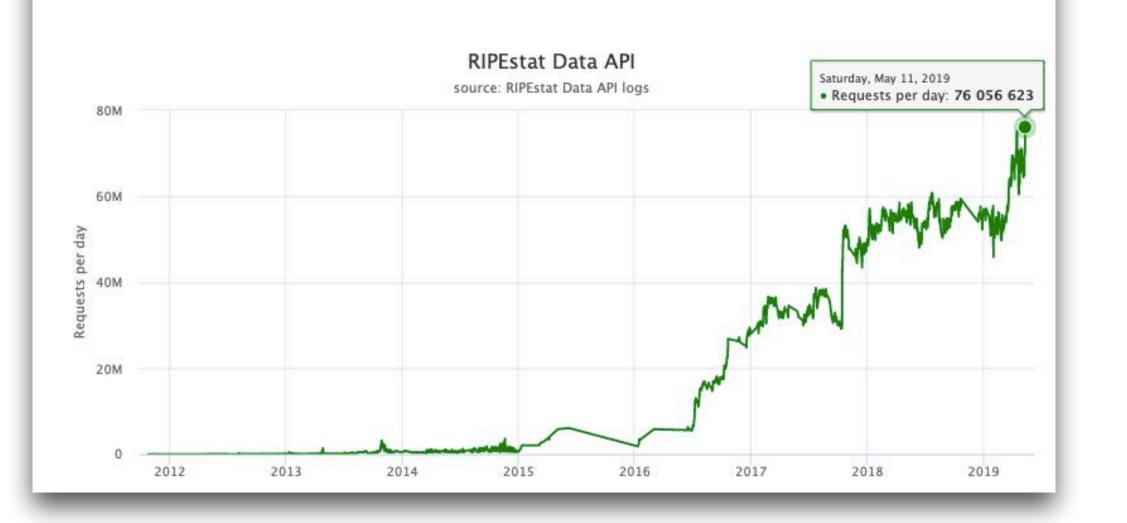
At 2019-05-13 08:00:00 UTC, 2001:67c:2e8::/48 was 99% visible (by 222 of 224 RIS full peers).

O First ever seen announced by AS3333, on 2010-09-28 16:00:00 UTC.

Originated by: AS3333 - RPKI Status: 😳 - Route object: RIPE

RIPEstat - Operation

RIPEstat Usage Statistics



- Solved scalability issues on API level
- >70M daily requests now possible





RIPEstat - Community

	-	🔒 ripestat.featureupvol	e.com 🔿	Ċ.
	NCC RIPEstat Feature	Tracker		
We've rec	eived the following	suggestions to improve	RIPEstat:	
immediately. Your feature s 1. Status: We still 2. Status: Suggest 3. Status: Done, y	We try to reply to new suggestion suggestion can have one of the for Under consideration have to decide whether or not to Planned ted feature with this status are or Done our suggested feature has been		g makes feature suggestion mo e scheduled or worked on. !	re likely to be Planned .
★ Top ①1	New All (17) -		Q Search	ADD YOUR SUGGESTION
32 votes	Additional geolocati Suggested by: Laurens (01 Aug, ' Planned	On information 18) • Upvoted: 02 May • Comments: 2		
23 votes	RIS meta data api ca Suggested by: Emile Aben (30 Oc Planned #ongoing	all t, '18) • Upvoted: 23 Feb • Comments: 3		
19 votes	Display RPKI validati Suggested by: Riccardo (24 Oct,			

Very positive feedback on public feature tracker

https://ripestat.featureupvote.com





		🗎 ripestat.featureup		
★ Top [©] Ne	w All (17) -		Q Search	ADD YOUR SUGGESTION
32 votes	Additional geolocation in Suggested by: Laurens (01 Aug, '18) • U Planned			
23 votes	RIS meta data api call Suggested by: Emile Aben (30 Oct, '18) Planned #ongoing) • Upvoted: 23 Feb • Comments: 3		
19 votes	Display RPKI validation Suggested by: Riccardo (24 Oct, '18) • U Done	Upvoted: 04 Feb • Comments: 2		
18 votes	Update Maxmind data Suggested by: Christian (31 Jul, '18) • U Done	Jpvoted: 12 Dec, '18 • Comments: 3		
13 votes	Add holder on announce Suggested by: Laurens (28 Jan) • Upvote Under consideration			
13 votes	Add an AS-Hegemony w Suggested by: Romain Fontugne (04 Fe Under consideration		b.net	
12 votes	Display abuse contact in Suggested by: Nikolas Pediaditis (01 A Under consideration			





Other Projects

RIS Live Trial

- https://ris-live.ripe.net/
- Is latency end to end
- JSON format
- WebSocket/HTTP stream
- Fill in the survey! (Do you like it? Will you use it? How?)
- We will decide whether to continue service end of Q3, based on your feedback

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ive RIS BGP messages

•	Connected	6165 matching messages ()
"t: "po "io "ho "ty "po "co	<pre>eived at 14:05:05 (0.2 imestamp": 1550235905. eer": "91.206.52.130", eer_asn": "58299", d": "91.206.52.130-155 ost": "rrc20", ype": "UPDATE", ath": [58299, 6939, 29 ommunity": [[58299, 13 rigin": "igp", nnouncements": [{ "next_hop": "200 "prefixes": ["2001:7fb:ff] }, { "update unity unity": [[58299, 13] </pre>	.09, 50235905.09-3854212", 914, 12859, 12654], 100]], 91:7f8:24::82", f02::/48"
	<pre>"next_hop": "fe8 "prefixes": [</pre>	30::4e5e:cff:fe25:40c4", f02::/48"
]		



How We Help Research

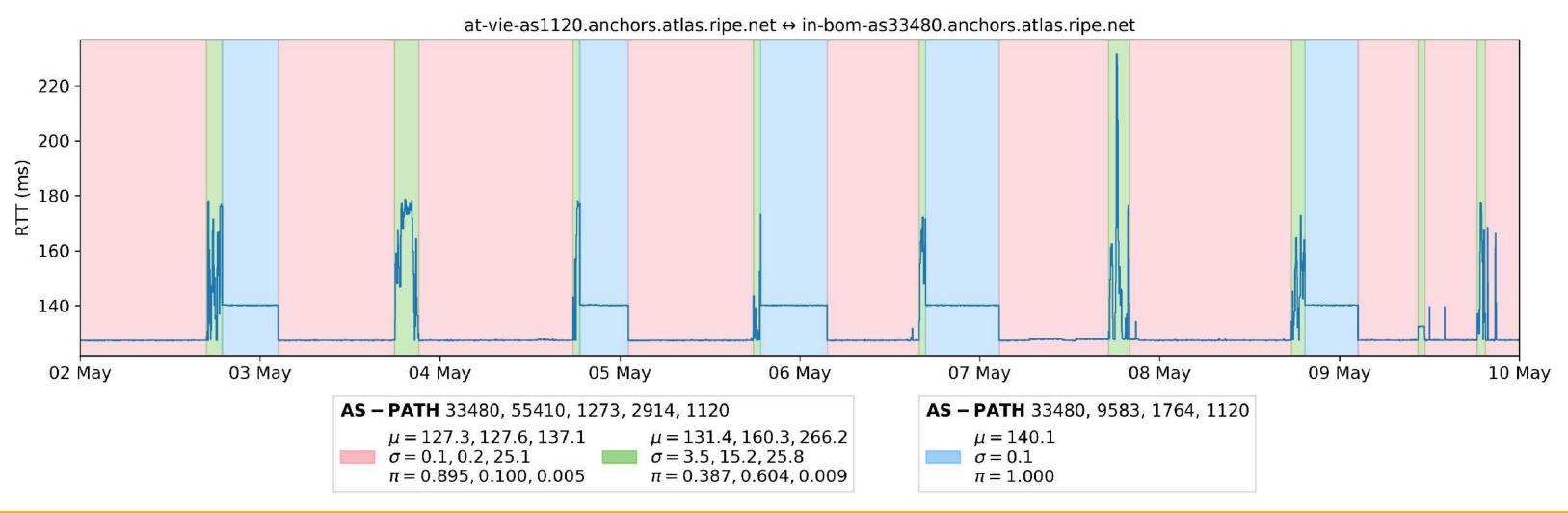
- In depth knowledge about data we collect
 - Learn how to reduce "time to insight" from our data

- Custom Analysis
 - https://labs.ripe.net

- Collaborate!
 - Internships

- How can we make our data collection systems better?

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https://labs.ripe.net/Members/maxime_mouchet/api-for-summarising-events-in-ripe-atlas-rtt-time-series





Questions

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