00:1302 580:1198 2001:1096 225

RIPE stat

Information Services May 5 2011 @ RIPE 62



Motivation for **RIPEstat**

- Frequent need to find information about Internet resources
- Many sources available
 - -BGP data (RIS...)
 - active measurement (Atlas, TTM, DNSMON...)
 - RIPE DB

. . .

- -geo-location data
- -blacklist data



Motivation for **RIPEstat**

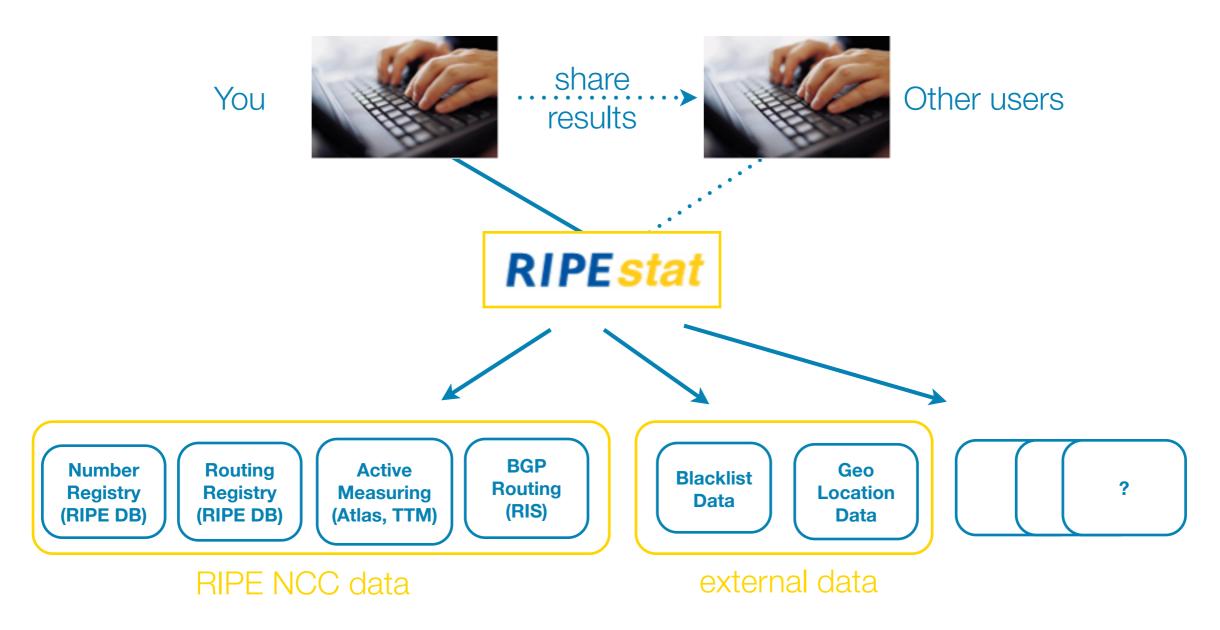
- Depending on your need, interest or issue
 - you need to query multiple tools
 - sources of data are scattered
 - query interfaces are not consistent

Wouldn't it be great to have all this info combined?



Motivation for **RIPEstat**

• This is the idea behind RIPEstat





A word on development

- Roadmap is not fixed
 - -base application as a starting point
 - onwards direction driven by YOUR suggestions
- Key principles
 - modular and flexible architecture
 - user feedback by consultation and usage analysis
 - -views on data sets support history and zooming
 - transparent development (public demo every 4 weeks)



	NTRE	
	RIPE stat	The current top queries
	193.0.20.0/23	- AS286
	Your network: AS3333, 193.0.20.0/23 Example: IPv4, IPv6, AS#	- as36935
	Tour network: #33333, 153.0.20.0/23 Example: IPV4, IPV6, #39	- 144.15.240.0/24
		- 193.0.0/24
	Whois Matches	- AS15169
esult Boxes	WITCH'S IMATCHES	_ as786
Whois Matches	Show all fields	 stat_input.js
Origin AS History for 193.0.20.0/23	resource 193.0.18.0 - 193.0.21.255	- as3265
Assignments within the Allocation of	netname RIPE-NCC country NL	- 219.104.0.0/16
193.0.20.0/23	status ASSIGNED PI	
Geolocation of 193.0.20.0/23	responsible customer	Your latest queries
Number of Blacklisted Hosts from	maintainer	- 193.0.20.0/23
93.0.20.0/23	ID/handle RIPE-NCC-MNT	- 41.221.84.0/24
Global Visibility of 193.0.20.0/23	RIPE Network Coordination Centre	- NONE
3GP Update Activity of 193.0.20.0/23	description Amsterdam, Netherlands	-
		- AS3333
Prefixes overlapping 193.0.20.0/23		- AS8426
Routing Consistency of 193.0.20.0/23	Resources outside of the RIPE region are only updated daily	
	Subquery took 766 msec (Ref: Q114969/613453 R0)	News
	Download raw data: yaml Show: link I specification I methodology	- 1st Public Demo
		 Egyptian Network Outage
		- 2nd Public Demo
	Origin AS History for 193.0.20.0/23	 Japanese Earthquake
		RIPEstat Development
	AS3333	 Introduction to Demos
		- 25 January 2011 🔝 🔝
	Apr 19 Apr 21 Apr 23 Apr 25 Apr 27 Apr 29 May 1 May 3	- 22 February 2011 112 52
		- 22 March 2011 🔝 💷
	Jan 2009 Jul 2009 Jan 2010 Jul 2010 Jan 2011	- 19 April 2011 🔝 🗺
		- 18 May 2011
	Subquery took 964 msec (Ref: Q114969/613454 R0)	- 14 June 2011
	Download raw data: yaml Show: link I specification I methodology	- 12 July 2011
		 9 August 2011



	RE	
box	RIPEstat 193.0.20.0/23 Your network: AS3333, 193.0.20.0/23 Example: IPv4, IPv6, AS#	The current top queries - 1.2.3.4/22 - AS286 - as36935 - 144.15.240.0/24 - 193.0.0.0/24
represents a view on a	Whois Matches Show all fields resource 193.0.18.0 - 193.0.21.255 netname RIPE-NCC country NL status ASSIGNEE PL	 AS15169 as786 stat_input.js as3265 219.104.0.0/16
data set 193.0.200000 - Global Visibility of 193.0.20.0/23 - BGP Update Activity of 193.0.20.0/23	status ASSIGNED PI responsible maintainer customer maintainer ID/handle RIPE-NCC-MNT description RIPE Network Coordination Centre Amsterdam, Netherlands	Your latest queries - 193.0.20.0/23 - 41.221.84.0/24 - NONE - - AS3333
Prefixes overlapping 193.0.20.0/23 Routing Consistency of 193.0.20.0/23	- Resources outside of the RIPE region are only updated daily Subquery took 766 msec (Ref: Q114969/613453 R0) Download raw data: yaml Show: link I specification I methodology	AS8425 News Ist Public Demo Egyptian Network Outage 2nd Public Demo
	Origin AS History for 193.0.20.0/23	Japanese Earthquake RIPEstat Development Introduction to Demos 25 January 2011 RD SD 22 February 2011 RD SD
	Jan 2009 Jul 2009 Jan 2010 Jul 2010 Jan 2011 Subquery took 964 msec (Ref: Q114969/613454 R0) Download raw data: yaml Show: link I specification I methodology	 22 March 2011 [TD SD 19 April 2011 [TD SD 18 May 2011 14 June 2011 12 July 2011



	TRE	
	RIPEstat 193.0.20.0/23 Image: State Stat	The current top queries - 1.2.3.4/22 - AS286 - as36935 - 144.15.240.0/24
Result Boxes - Whois Matches - Origin AS H	Whois Matches Show all fields	- 193.0.0/24 - AS15169 - as786 - stat_input.js - as3265
download ra	netname RIPE-NCC country NL status ASSIGNED PI sponsible customer ntainer RIPE-NCC-MNT	 219.104.0.0/16 Your latest queries 193.0.20.0/23 41.221.84.0/24
data	RIPE Network Coordination Centre Amsterdam, Netherlands Resources outside of the RIPE region are only updated daily	- NONE - - AS3333 - AS8425
	Subquery took 766 msec (Ref: Q114969/613453 R0) Download raw data: yaml Show: link I specification I methodology Origin AS History for 193.0.20.0/23	News - 1st Public Demo - Egyptian Network Outage - 2nd Public Demo - Japanese Earthquake
	AS3333 Apr 19 Apr 21 Apr 23 Apr 25 Apr 27 Apr 29 May 1 May 3	RIPEstat Development - Introduction to Demos - 25 January 2011 To So - 22 February 2011 To So - 22 March 2011 To So
	Jan 2009 Jul 2009 Jan 2010 Jul 2010 Jan 2011 Subquery took 964 msec (Ref: Q114969/613454 R0) Download raw data: yaml Show: link I specification I methodology	 19 April 2011 [10] [20] 18 May 2011 14 June 2011 12 July 2011 9 August 2011



NCC RIPE NETWORK COORDINATION	RIPEstat The current top queries 193.0.20.0/23 - 1.2.3.4/22 Your network: AS3333, 193.0.20.0/23 Example: IPv4, IPv6, AS# - AS266 - 144.15.240.0/24 - 144.15.240.0/24
 Result Boxes Whois Matches Origin AS History for 193.0.20.0/23 Assignments within the Allocation of 193.0.20.0/23 Geolocation of 193.0.20.0/23 Number of Blacklisted Hosts from 193.0.20.0/23 Global Visibility of 193.0.20.0/23 BGP Update Activity of 193.0.20.0/23 Prefixes overlapping 193.0.20.0/23 Routing Consistency of 193.0.20.0/23 	Whois Matches - 193.0.0.024 Whois Matches - as786 Image: Show all fields
	Origin AS History for 193.0.20.0/23 AS3333 Image: Constraint of the constr



		-1171
	RIPEstat 193.0.20.0/23 Your network: AS3333, 193.0.20.0/23 Example: IPv4, IPv6, AS#	The current top queries - 1.2.3.4/22 - AS286 - as36935 - 144.15.240.0/24 - 193.0.0.0/24
 Result Boxes Whois Matches Origin AS History for 193.0.20.0/23 Assignments within the Allocation of 193.0.20.0/23 Geolocation of 193.0.20.0/23 Number of Blacklisted Hosts from 193.0.20.0/23 Global Visibility of 193.0.20.0/23 BGP Update Activity of 193.0.20.0/23 Prefixes overlapping 193.0.20.0/23 Routing Consistency of 193.0.20.0/23 	Whois Matches Show all fields Tresponsible country NL Country NL Status ASSIGNED PI Tresponsible customer maintainer RIPE-NCC-MNT Dhandle RIPE-NCC-MNT ID/handle RIPE Network Coordination Centre Amsterdam, Netherlands CO Output: Subquery took 766 msec (Ref: 0114969/613453 R0) Downcod raw data: yam!	thodology xplained
	Origin AS History for 193.0.20.0/23	 Japanese Earthquake RIPEstat Development Introduction to Demos 25 January 2011 (*) (*) 22 February 2011 (*) (*) 22 March 2011 (*) (*) 22 March 2011 (*) (*) 19 April 2011 (*) (*) 18 May 2011 14 June 2011 12 July 2011 9 August 2011



• Whois

Whois Matches		
resource	AS3333	Show all fields
as-name	RIPE-NCC-AS	
organisation	ORG-NCC1-RIPE	
maintainer ID/handle	RIPE-NCC-END-MNT RIPE-NCC-MNT	
description	RIPE Network Coordination Centre	
e Reso	urces outside of the RIPE region are only updated daily	
	Subquery took 3387 msec (Ref: Q110901/586477 R0)	
Download as: raw data	View:	link specification methodology





Prefix announced check







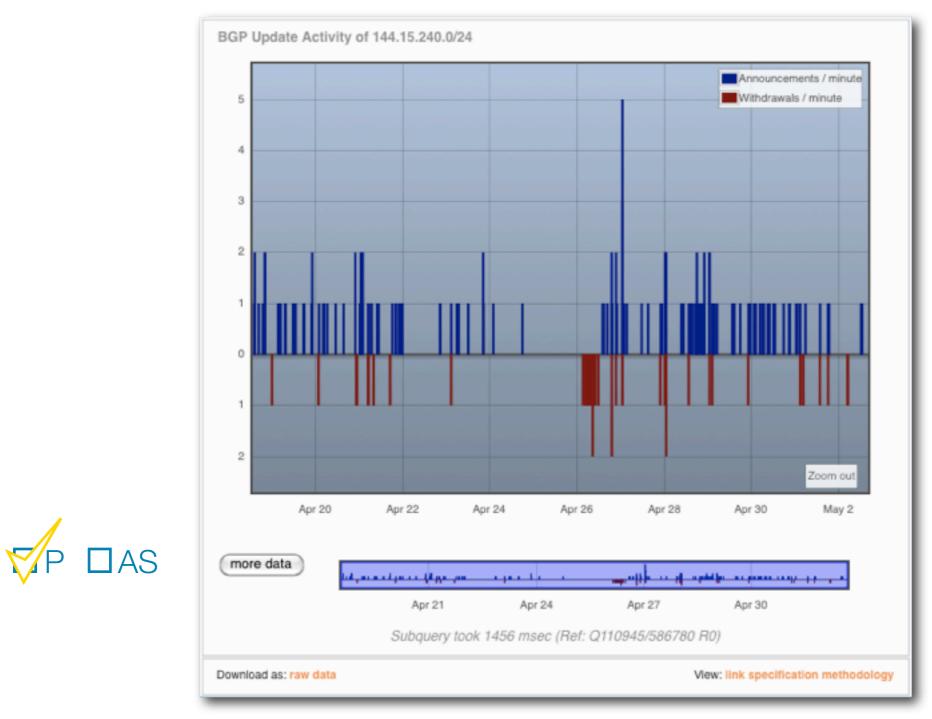
• Prefix overlaps

Prefixes overlapping	144.	15.240.0/24					
Show 10 entries Search:							
Prefix	¢	Origin AS	\diamond	First seen	*	Last seen	\$
144.15.240.0/24		AS286		2009-05-22 07:59:56		2011-05-02 12:48:16	÷
144.15.0.0/16		AS13684		2009-03-22 00:00:00		2011-05-02 12:48:17	·
Showing	g 1 to	o 2 of 2 entrie	es				
		Subquery to	ook 45	97 msec (Ref: Q110945/5	586781	R0)	
Download as: raw data					v	lew: link specification me	ethodology



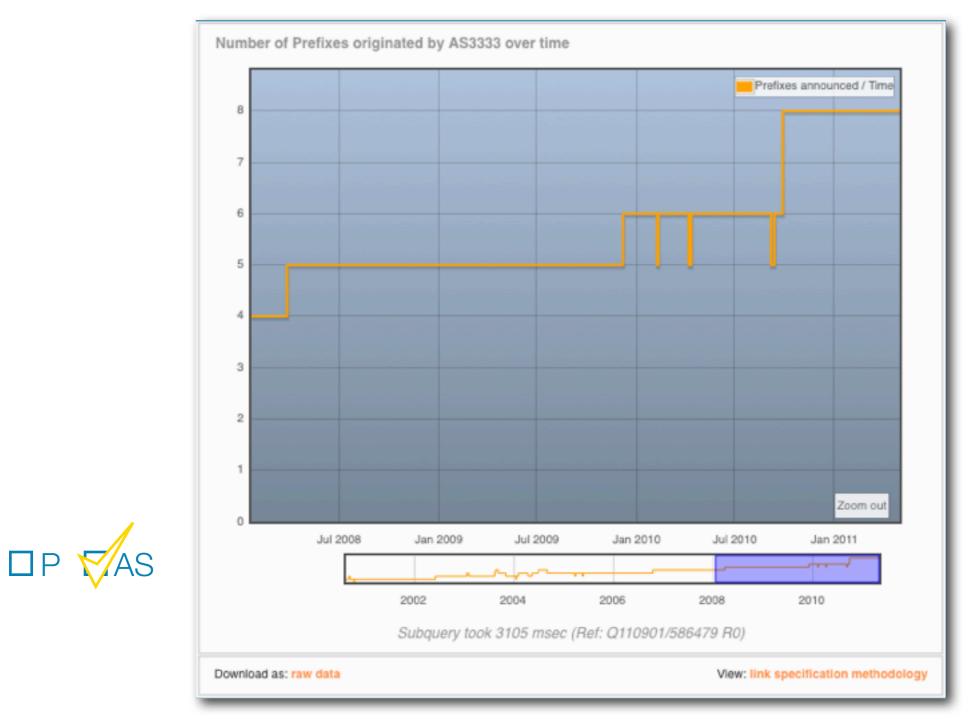


• BGP update activity





Number of prefixes announced





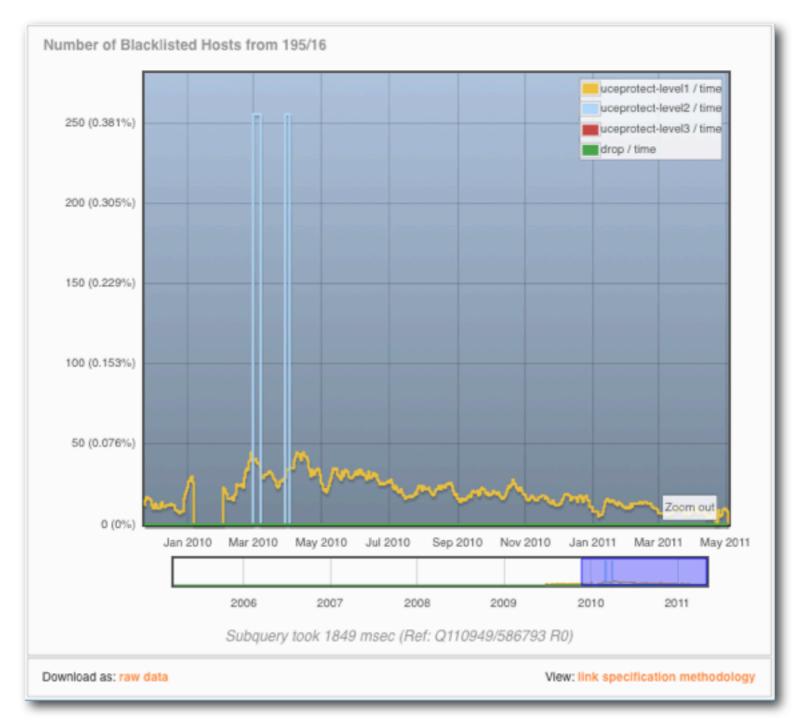
Consistency of routing information

Routing Consistency	y of 144.15.24	0.0/24					
Show 10	entries				Search:		
Prefix	*	Origin AS	¢	In bgp	\$	In whois	\$
144.15.0.0/16		13684		F	OUND	Not Found	
144.15.240.0/24		286		F	OUND	Found	1
Showin	ng 1 to 2 of 2 e	ntries					
	Subque	ry took 5017 mse	ec (Ref: Q	110945/5867	782 R0)		
Download as: raw data					View: link	specification met	hodology





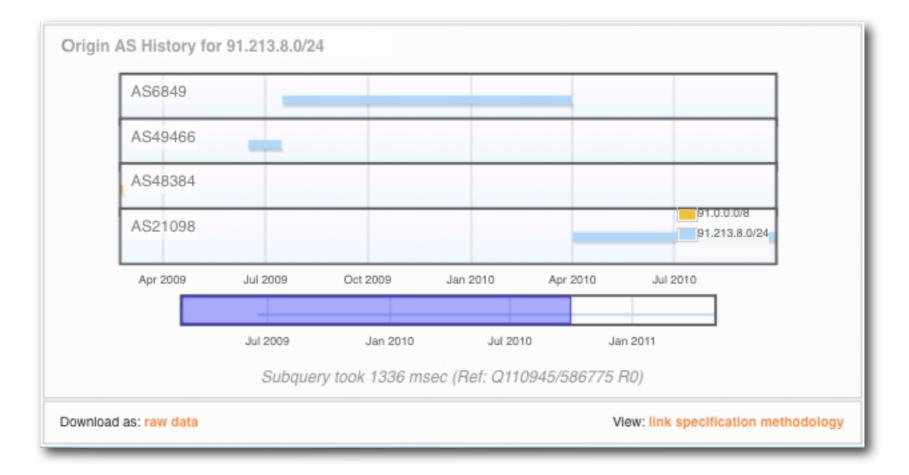
Blacklist





Christian Teuschel, May 5 2011 @ RIPE62

History of AS announcing a prefix





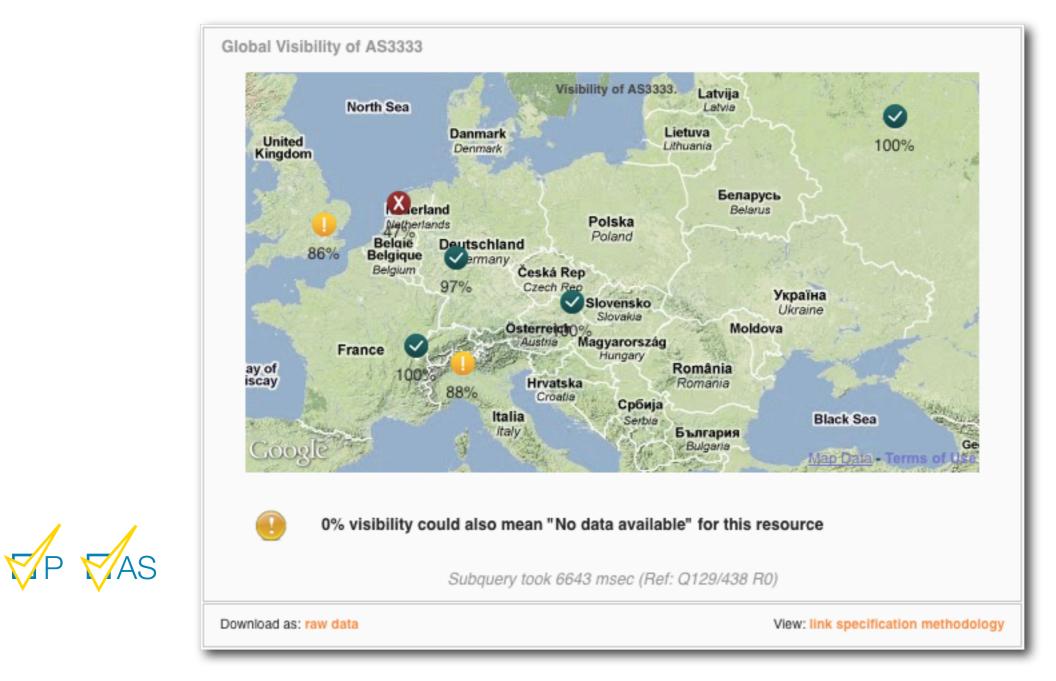


• Visibility



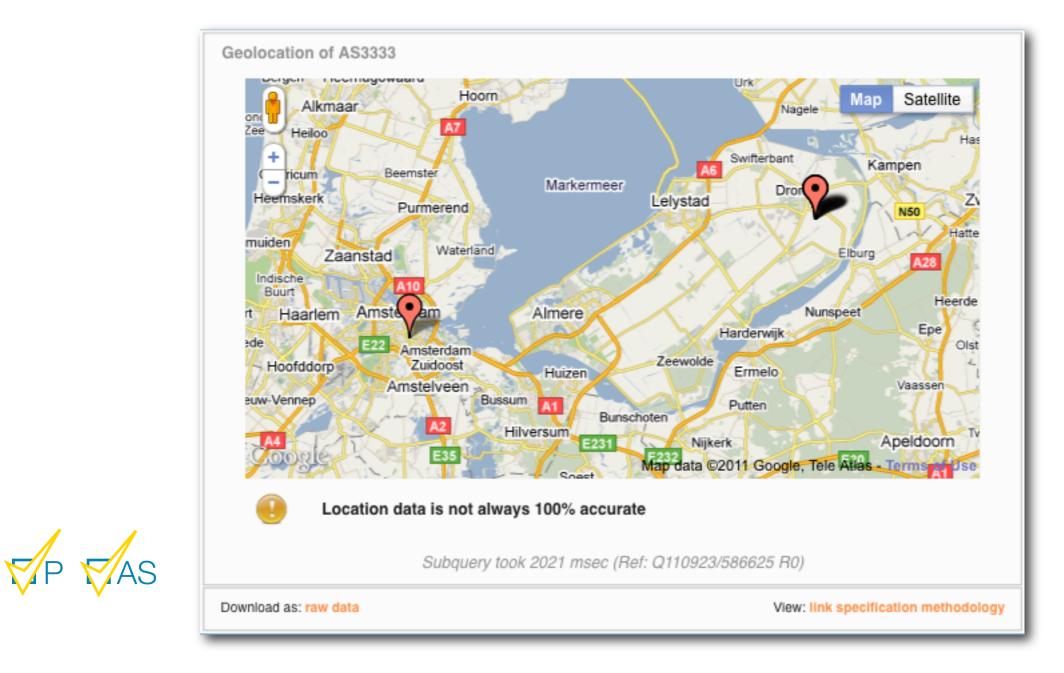


• Visibility





Geolocation of prefix(es)

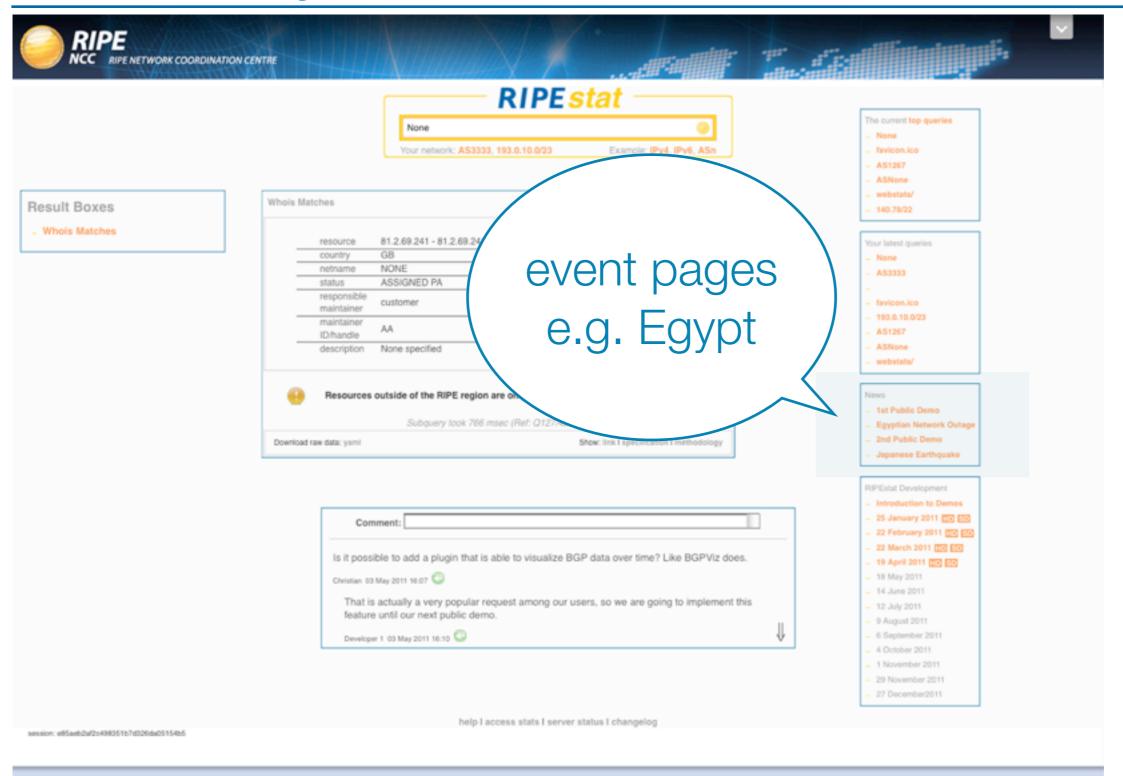




	H		ar arrita	
Result Boxes - Whois Matches	None Your network: AS33 Matches Tesource 81.2.69.241 - 81.2.69.241 country GB netname NONE status ASSIGNED PA responsible maintainer maintainer ID/handle AA description None specified	popular & your latest queries		The current top queries - None - favicon.ico - AS1267 - ASNone - webstats/ - 140.78/22 Your latest queries - None - AS3333 - - favicon.ico - 193.0.10.0/23 - AS1267 - ASNone - webstats/
Downlo	Resources outside of the RIPE region are only up Subquery took 766 msec (Ref: Q ad raw data: yami			News - 1st Public Demo - Egyptian Network Outage - 2nd Public Demo - Japanese Earthquake
	feature until our next public demo. Developer 1 03 May 2011 16:10	Jalize BGP data over time? Like BGPViz does.	↓	RIPEstat Development Introduction to Demos 25 January 2011 [II III] 22 February 2011 [III] III] 22 March 2011 [III] III] 3 19 April 2011 [III] III] 3 14 June 2011 4 June 2011 4 October 2011 4 October 2011 4 October 2011 2 1 November 2011 2 29 November 2011 2 27 December/2011 3 27 December/2011 3 27 December/2011 4 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
session: e85aeb2a/2x498351b7d326da05154b5				

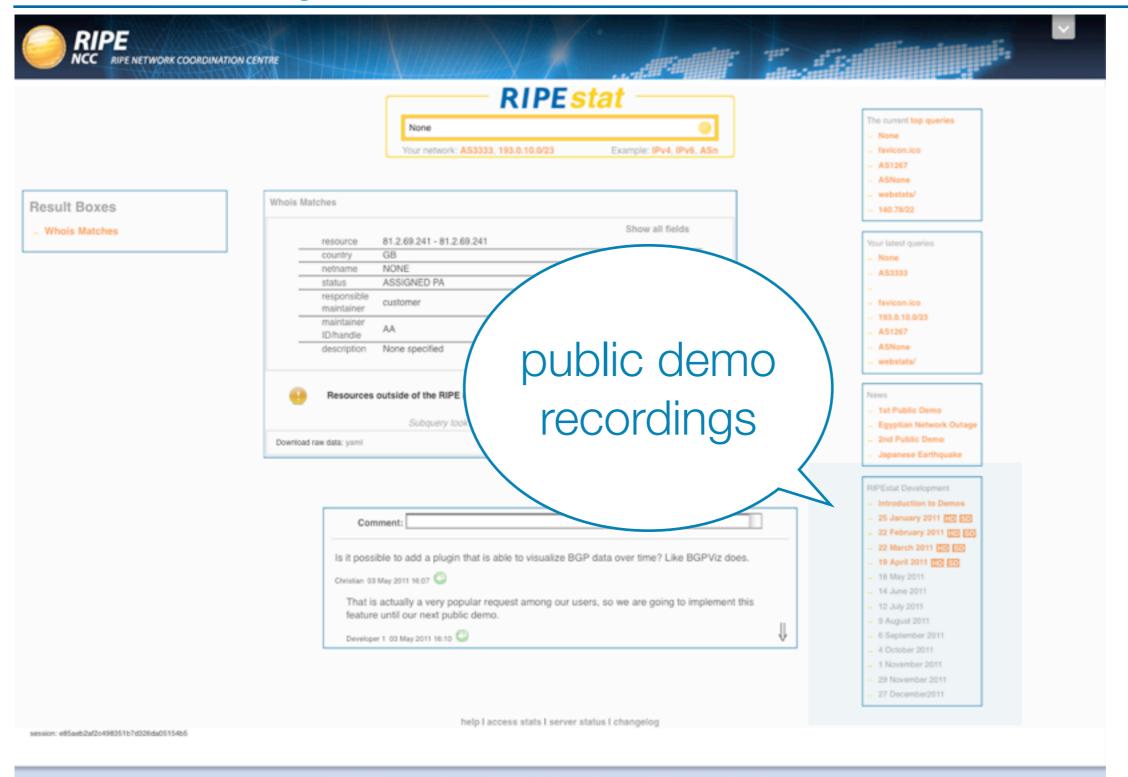
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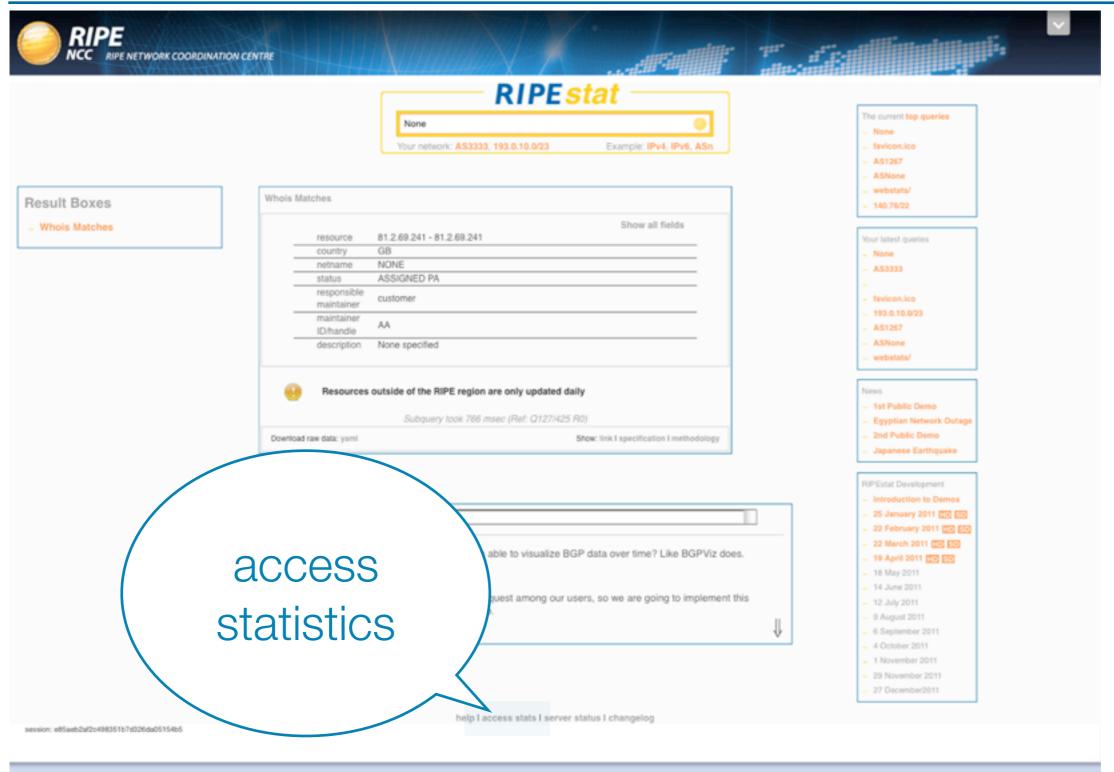
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		100 - 10 ⁻¹ -	erffilierterforforgelie
	None Image: State of the		The current top queries - None - faviconico - A\$1267
Whois Matches Whois Matches resource	Show all fields 81.2.69.241 - 81.2.69.241		ASNone webstats' 140.78/22 Your latest queries
country netname status consible joer	GB NONE ASSIGNED PA customer		- None - A\$3333 - - favicon.ico - 193.0.10.0/23
	AA None specified		- AS1267 - ASNone - webstats/
comments	Ide of the RIPE region are only updated daily Subquery look 766 msec (Ref: Q127/425 R0) Show: link I specification I methodology		News - 1st Public Demo - Egyptian Network Outage - 2nd Public Demo - Japanese Earthquake
Com	ment:		RIPEstat Development - Introduction to Demos - 25 January 2011 [10 50 - 22 February 2011 [10 50
Christian 03	ble to add a plugin that is able to visualize BGP data over time? Like BGPViz does. May 2011 16:07		 22 March 2011 [1] [2] [2] 19 April 2011 [2] [2] 18 May 2011 14 June 2011 12 July 2011
feature	r 1 03 May 2011 16:10 🔘	↓	 9 August 2011 6 September 2011 4 October 2011 1 November 2011
ssion: e85aeb2af2o498351b7d326da05154b5	help I access stats I server status I changelog		 29 November 2011 27 December 2011

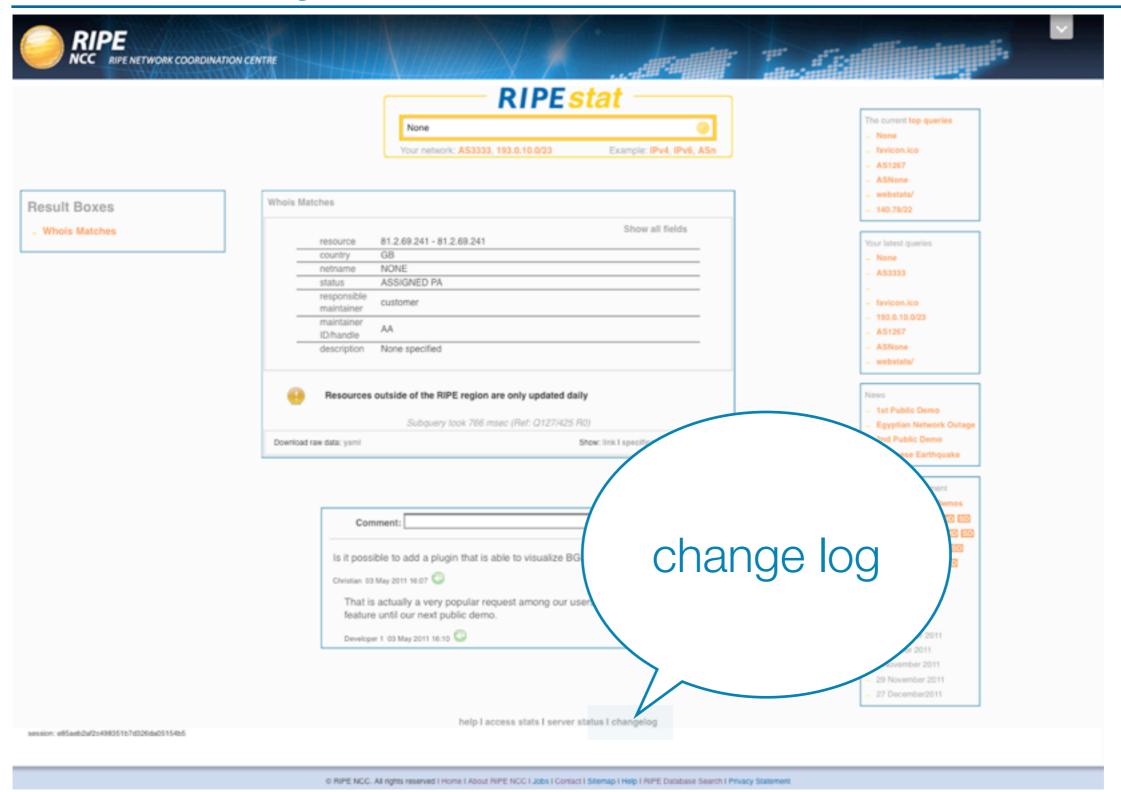
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- Possible future features
 - customised results page
 - more views and data sets
 - command-line interface



. . .

Let's get involved!

- Measurements BoF session (right after this)
 - share your thoughts about **RIPEstat**
 - win an iPod Touch for the best suggestion!
- Other ways to participate:
 - -MAT-Working Group list (mat-wg@ripe.net)
 - RIPEstat
 - RIPE labs (http://labs.ripe.net/ripestat)



Questions?



