

Operators Tools

An Update on RIPE Labs

..illuminating new ideas and tools **from** the community **for** the community

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What is **RIPE** Labs?



- It is a web site, but more importantly:
 - A platform and a tool for the community
- You can
 - Test and evaluate new tools and prototypes
 - Contribute new ideas and research results
 - Discover and discuss in forums

http://labs.ripe.net





Currently on RIPE Labs

INRDB

Resource Explainer (REX) IPv4 and IPv6 Measurements NetSense DNS Related Tools and more



Resource Explainer



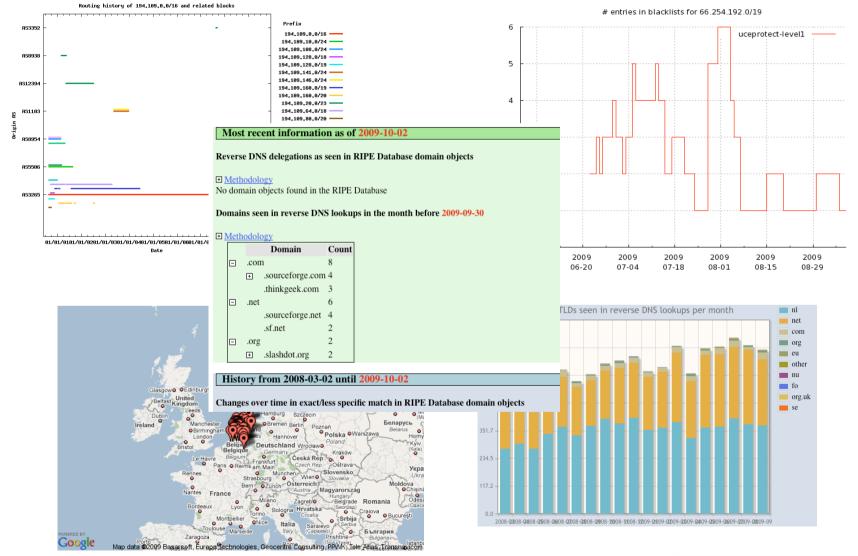
- Based on growing community needs, a service where:
 - History and current status of resources can be looked up
 - Information from many sources are combined and explained
- Some reasons are
 - Growing use of recycled / transferred resources
 - Proliferation of resource abuse
 - Support resource management activities

http://labs.ripe.net/content/rex-resource-explainer



Resource Explainer







NetSense (netsense.ripe.net)



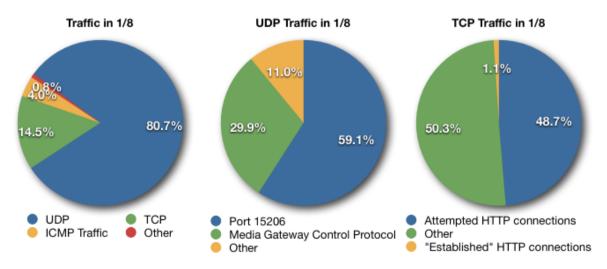
 Consistent interface integrating various measurement services provided by the RIPE NCC

Prefix ŧ	First Seen ŧ	Last Update +	Car Station	A Contraction	
193.0.22.0/23	1 month ago	5 hours ago	MAR CO		and the second of the
93.0.18.0/23	9 months ago	4 hours ago		89%	12779
93.0.12.0/23	9 months ago	4 hours ago	78%	A REAL PROPERTY	CASO .
93.0.20.0/23	9 months ago	5 hours ago	/6%		
001:610:240::/42	9 months ago	5 hours ago			
93.0.0.0/21	9 months ago	4 hours ago		0	
			Google		
Roi	ıting Consister	ıcy ▶	Origin Prefixes 🔻	Import Peers Export Po	eers
Rou	Iting Consister	ncy	Origin Prefixes BGP Routing Table	Import Peers Export Peers RIPE Database #	eers Status †
	Missing in				
Don't Filter	Missing in	n routing table n RIPE database	BGP Routing Table #	RIPE Database #	Status ŧ
Don't Filter	O Missing ir encies O Missing ir	n routing table n RIPE database	BGP Routing Table #	RIPE Database *	Status † Ok
Don't Filter	O Missing ir encies O Missing ir	n routing table n RIPE database	BGP Routing Table # 193.0.18.0/23 193.0.22.0/23	RIPE Database * 193.0.18.0/23 193.0.22.0/23	Status ‡ Ok Ok
Don't Filter	O Missing ir encies O Missing ir	n routing table n RIPE database	BGP Routing Table # 193.0.18.0/23 193.0.22.0/23 193.0.20.0/23	RIPE Database * 193.0.18.0/23 193.0.22.0/23 193.0.20.0/23	Status ; Ok Ok Ok



Pollution in 1/8

- 1/8 allocated to APNIC
- Lots of discussion about usability of 1/8
- How much of it us already routed?
- Lots of interest in the results



http://labs.ripe.net/content/pollution-18



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IPv6 Measurements



- A compilation of IPv6 measurements
 - List of IPv6 measurements and tools from various sources with a short description and links to the tools and results
 - Please let us know what type of measurements would be helpful for your operations

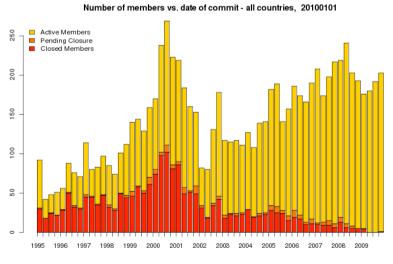
http://labs.ripe.net/content/ipv6-measurement-compilation



LIR Growth Statistics

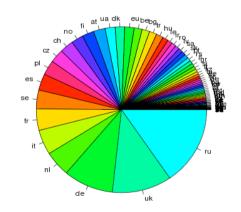


- RIPE NCC membership demographics
 - http://labs.ripe.net/content/ripe-ncc-membership-growth
- Internet number resources are distributed among the membership
 - http://labs.ripe.net/content/members-and-their-number-resources



3 month intervals





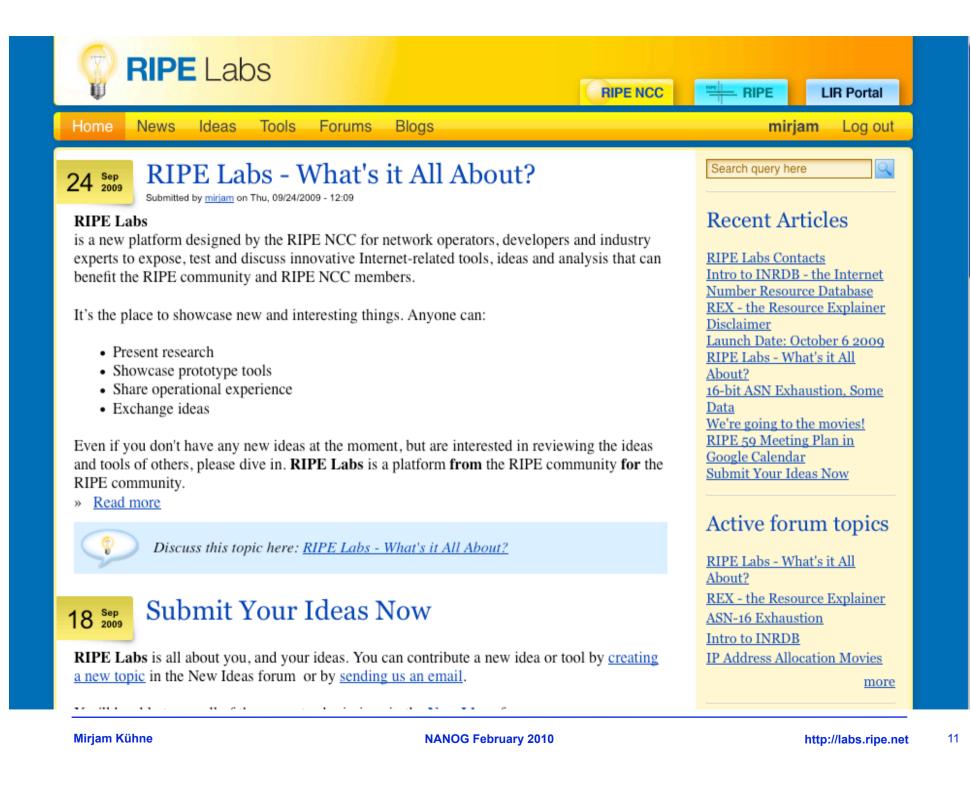
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DNS related Tools



- DNS Lameness checker (Shane Kerr)
 - Downloadable tool for DNS operators
- DNSSEC for the root zone
 - Plans for signing K-root
- DNS reply-size tester
 - Easy tool to determine maximum size of DNS response packets your resolver can handle
 - First results published recently





Questions or Comments



- Please take a look and participate
 - Your ideas, tools, research results etc. are welcome!

- Questions or comments
 - mir@ripe.net or labs@ripe.net