

RIPE Atlas BoF

Help us Distribute More Probes

- Become RIPE Atlas ambassador
 - if you travel to exotic locations and/or conferences
 - if you have lots of friends
 - if you can persuade people to plug in their probe
- What do you have to do?
 - register the email & MAC address of hosts
 - remind people to plug in their probe
- What's in it for you?
 - fame & glory... warm fuzzy feeling... and a T-shirt :-)

If **YOU** Want more probes...

- Become a sponsor!
 - if you want to give probes to your customers/members
 - if you want to control multiple probes yourself
- What do you have to do
 - pay us 2048 Euro for 8 probes
 - let us know the emails & MAC addresses per probe
- What's in it for you?
 - earn double* credits
 - your probes visible in your admin interface
 - fame & glory & place of your logo on our web site..
& a T-shirt :-)

<http://roadmap.ripe.net/ripe-atlas/>

Requested	Planned	In Progress	Delivered
<ul style="list-style-type: none">▶ Add NLNOG RING nodes as measurement targets	<ul style="list-style-type: none">▶ Sharing credit management with colleagues	<ul style="list-style-type: none">▶ Tools for interpreting results	<ul style="list-style-type: none">▶ API keys
<ul style="list-style-type: none">▶ Automatic alarms	<ul style="list-style-type: none">▶ More visualisations for user-defined measurements	<ul style="list-style-type: none">▶ RIPE Atlas anchors pilot - phase two	<ul style="list-style-type: none">▶ Improved credit model documentation and accounting
<ul style="list-style-type: none">▶ Involve each probe in anchoring measurements	<ul style="list-style-type: none">▶ Release measurement source code	<ul style="list-style-type: none">▶ Improving back-end infrastructure	<ul style="list-style-type: none">▶ Membership specific services via LIR Portal
<ul style="list-style-type: none">▶ Replace unsuitable probes		<ul style="list-style-type: none">▶ List of available RIPE Atlas anchors	<ul style="list-style-type: none">▶ RIPE Atlas anchors as measurement targets
<ul style="list-style-type: none">▶ Vantage points dropping out of existing user-defined measurements		<ul style="list-style-type: none">▶ Quick-Look connectivity measurements	<ul style="list-style-type: none">▶ Improved bug documentation
<ul style="list-style-type: none">▶ Share my probe with a custom-made group			<ul style="list-style-type: none">▶ Measurements on GitHub
<ul style="list-style-type: none">▶ Improve reporting when probe disconnects			<ul style="list-style-type: none">▶ One-off measurements
<ul style="list-style-type: none">▶ More controls for measurement distribution			<ul style="list-style-type: none">▶ Allowed creation of measurements using API
<ul style="list-style-type: none">▶ Credits APIs			<ul style="list-style-type: none">▶ Improved RIPE Atlas website
			<ul style="list-style-type: none">▶ Sharing probe management with colleagues
			<ul style="list-style-type: none">▶ Increase maximum number of probes and measurements

Questions for the BoF participants

- About features:
 - HTTP measurements - limitations?
 - BCP38 detection? spoofing packets
 - How many probes do you want to see in three years?
 - Multipath TCP measurements?
 - Granularity of group management?
 - “RIPE Atlas” group in LIR portal: opt-in or opt-out?
 - Which of the requested features are most important?

Which use cases should we prioritize?

- How much traffic stays local to country/region?
- Net Neutrality measurements?
- Measuring IP address hijacking?
- SSL observatory?
- Peering optimizer?
 - combining RIS (BGP) & active measurements data

RIPE Atlas Anchors

RIPE Atlas Anchors



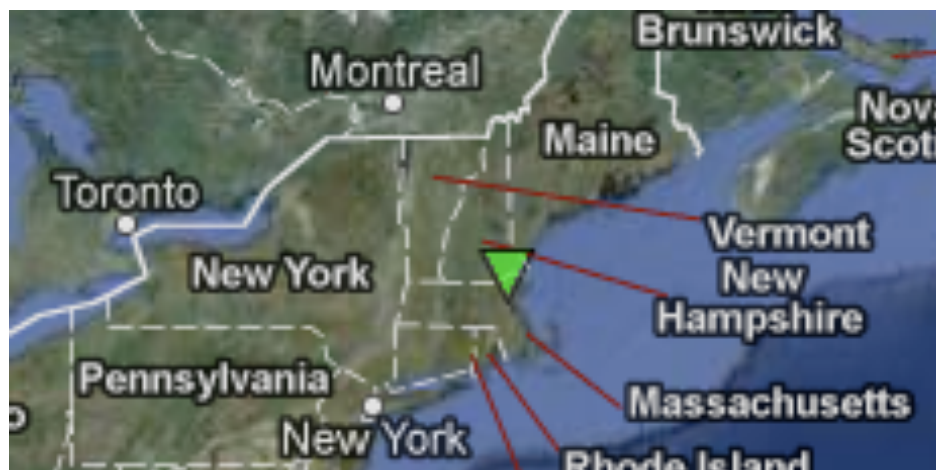
- Anchors are well-known targets and powerful probes
 - Regional baseline & “future history”
- Features:
 - RIPE Atlas users can chose anchors as targets
 - Anchors are running http & DNS server SW
 - RIPE Atlas users can use anchors as big probes
 - Anchor hosts earn ten times more credits than regular probe hosts

* Target:	<input type="text"/>
Resolve on probe:	Anchor: at-vie-as1853 Vienna, AT
	Anchor: ch-zrh-as34288 Zurich, CH
Public:	Anchor: cz-prg-as25192 Prague, CZ
	Anchor: fi-tmp-as29432 Tampere, FI
Create RRD graphs:	Anchor: fr-cdg-as2486 Paris, FR
	Anchor: ie-dub-as2128 Dublin, IE
Description:	Anchor: nl-ams-as3333 Amsterdam, NL
	Anchor: no-osl-as39029 Oslo, NO
	Anchor: sk-bts-as2607 Bratislava, SK
	Anchor: us-bos-as11488 Boston, US

11 Pilot RIPE Atlas Anchors

Public Probes

Description	Location
AA nl-ams-as3333	Amsterdam, The Netherlands
AA no-osl-as39029	Oslo
AA fi-tmp-as29432	Tampere
AA fr-cdg-as2486	Paris
AA ch-zrh-as34288	Zurich
AA cz-prg-as25192	Prague
AA ie-dub-as2128	Dublin
AA sk-bts-as2607	Bratislava
AA at-vie-as1853	Vienna
AA us-bos-as11488	Boston



RIPE Atlas Anchors Planning

- Pilot phase one: September 2012 - June 2013
 - 11 anchors deployed
 - After research, decided on multiple services based on Open VZ
- Pilot phase two: July - September 2013
 - Ten more anchors to be deployed
 - Testing the timing aspect of multiple services
- Production service: Q4 2013
 - Goal: ~50 deployed in 2013
 - Features: anchoring measurements, packet capturing SW on anchors, lists and visualisations of anchors, used for DNSMON “powered by RIPE Atlas”

Questions for anchor hosts

- What shall we filter out from packet capturing?
- Shall target & probe functionality be on same IP?
- How many anchors do you want to see in three years?
- If the virtualization tests confirm multiple services possibility, which services?
 - K-root instance, RIS route collector, whois DB/RR?
 - Shall target & probe functionality be on same VM?

