RIPE Atlas Probes

Issues & Questions to atlas@ripe.net

Atlas Probe? What's That?

A Measurement Device

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Bigger & Cheaper



More for Your Money? ③

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That's Nice

But What Does it

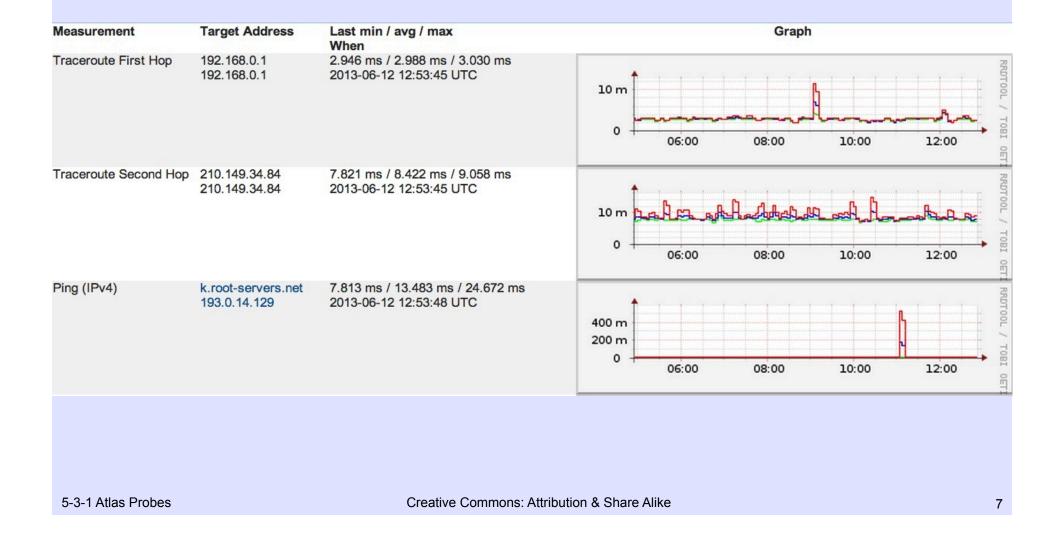
DO?

Measurements!!

	NETWORK COORDINATION CENTRE	Sile Map I Contact I Help I RIPE Database	Search Sarch
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Internet Address210.138.216.50LAS NumberAS2497LLocal Address192.168.0.27L	rv6 Indetermined/Unknown Indetermined/Unknown Indetermined/Unknown		4.0 k 2.0 k 0.0 04:00 06:00 08:00 10
Your probe is configured dynamically			
Your probe's public DNS entry is: p2283.p	probes.atlas.ripe.net		
Uptime Current status: Connected since 2			
Registered with controller: lorne Last Week Uptime: 99.78% Last Month Uptime: 99.94% Total Uptime: 90.37% (352d, 13h, 20r	n)		26 May 01 M 28 Aug 29 560 10 Mor 12 Dec 02 Feb Mar 11 April 08
Archived Connection Logs 2012/05 2012/06 2012/07 2012/08 2012	/09 2012/10 2012/11 2012/12 2013/01 2	013/02 2013/03 2013/04	
Assigned UDMs			
Built-in Measurements			
Measurement	Target Address	Last min / avg / max When	Graph
Traceroute First Hop	192.168.0.1 192.168.0.1	1.918 ms / 1.946 ms / 1.975 ms 2013-06-12 10:41:36 UTC	40 m 20 m 0 - 04:00 06:00 08:00 10
Traceroute Second Hop	210.149.34.84 210.149.34.84	7.018 ms / 7.326 ms / 7.499 ms 2013-06-12 10:41:36 UTC	20 m 10 m 0 04.00 06.00 08.00 100
Ping (IPv4)	k.root-servers.net 193.0.14.129	7.666 ms / 7.722 ms / 7.768 ms 2013-06-12 10.41:43 UTC	

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Example Pings





And You Can See Measurements From Them All!

You Can Even Conduct Your Own Experiments on Your and Other People's Probes

Participation and Benefits

Anyone can become a RIPE Atlas probe host

Major personal and operational benefit: See your network from the outside! Have at your fingertips >3,500 external vantage points to do pings & traceroutes towards your network

Built-in measurements available to everyone Maps, data from public probes, API to download raw data

But, if you want to ping home from around the Internet, then you have to have registered a probe yourself

Resources

- Powered by USB (500mA or greater)
- Internet connectivity via Ethernet
- It will attempt to configure itself with DHCP
- Uses 4-6 Kbps of bandwidth (< 2GB/month)
- Needs to be able to do: DHCP, DNS, HTTP(S), and ICMP at a minimum

Lots of Ways to Plug In







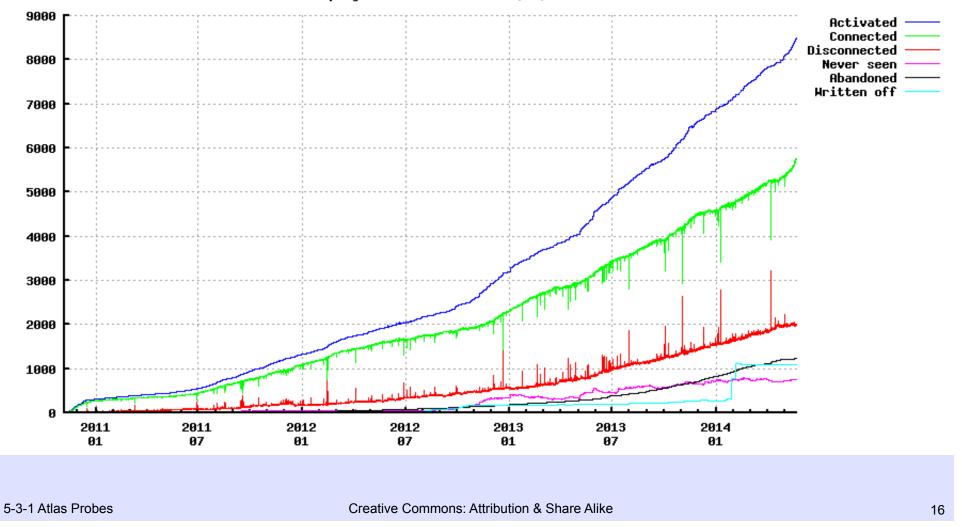
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Plug It In!

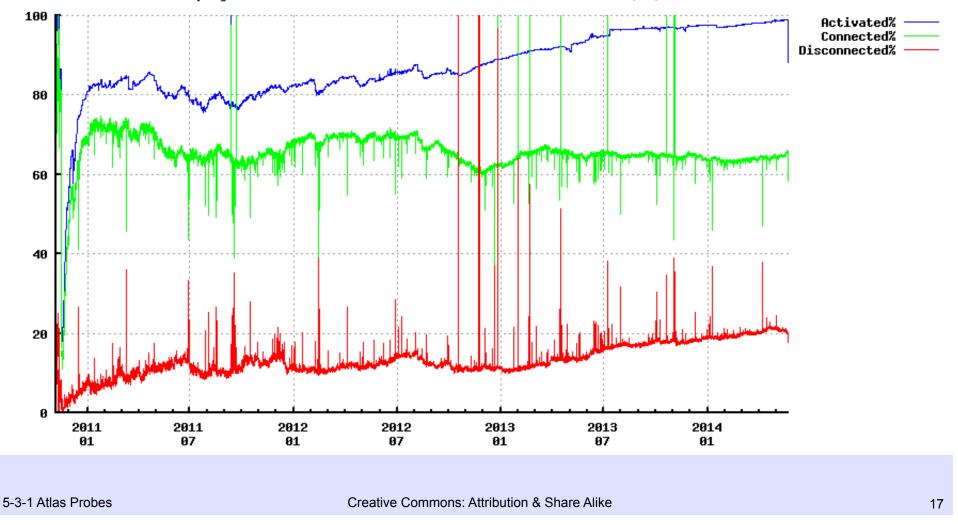
Be On The Green Line

Probe deployment -- 2014-05-23 10:41:44 UTC



As Percentage

Probe deployment (relative to distributed amount) -- 2014-05-23 10:41:45 UTC



Set-Up Instructions

https://atlas.ripe.net/get-involved/become-a-host/

Become a RIPE Atlas Host

Hosting a RIPE Atlas probe is easy and requires just three steps: Create a RIPE NCC Access account, apply for or register your probe, and plug it in. That's all it takes!

Step 1 - Create a RIPE NCC Access account

If you don't already have a RIPE NCC Access account, please create one. By doing so, you'll become a member of the RIPE Atlas community and will be able to apply for a probe.

Step 2 - Apply for a probe - OR - Register a probe you already have

Apply for a probe

You can apply online for your own RIPE Atlas probe. You can choose to have your probe sent to you by post or pick it up at a meeting.

Register a probe you already have

IMPORTANT: If you applied for your RIPE Atlas probe online, your probe was automatically registered as part of the application process and you can skip to step 3 below. If you received your probe without having first applied for it (at a meeting or some other way) and you have not yet completed this step, you need to register your probe.

Step 3 - Plug in the probe

After receiving your probe from us, you should bring it home (or to the destination network) and plug it in.

- · Use a UTP cable to connect your probe to an Ethernet port on your home router, switch, etc.
- Use a USB power outlet to power the probe. In many cases there's one on your switch/router. You can also use a USB charger to connect the probe to a power supply.
- In most networks, the probe will be able to get an IP address with DHCP and nothing further needs to be done to connect the probe. If you do not have a DHCP server already, you can configure DHCP or configure a static IP address (static configuration is necessary for an IPv6-only network).

And that's it! If you have version 1 or 2 of the probe (black), you'll know it's activated once the lights start blinking. If you have version 3 (white), the first, third and for the start blinking. If you have write the probe that the problem that the probe that the problem the problem that the problem the problem that the problem th

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I Can Give You a Probe You Have to Register Your EMail with Me

Plug it In

Then Register at RIPE

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Register at RIPE

← → C ☆ https://atlas.ripe.net/register/

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▲ If you already have a RIPE Atlas probe, and you have already filled in these details, either when app a meeting or elsewhere, you do not need to fill them in again.

you be installing the probe? *	Residential/Consumer 🗘
Service Provider *	
What's the connection speed like on that network? *	< 1 Mb/s \$
AS Number 🚯	Optional 🗘
My network supports IPv4 🜖	
IPv4 Network Prefix	Optional
	- Provide and a second s
My network supports IPv6 🜖	
My network supports IPv6 (1) IPv6 Network Prefix	Optional

