

RIPE Atlas Probes

Issues & Questions to atlas@ripe.net

Atlas Probe?
What's That?

A Measurement Device

Used to be Tiny



Ethernet

USB Power

Bigger & Cheaper



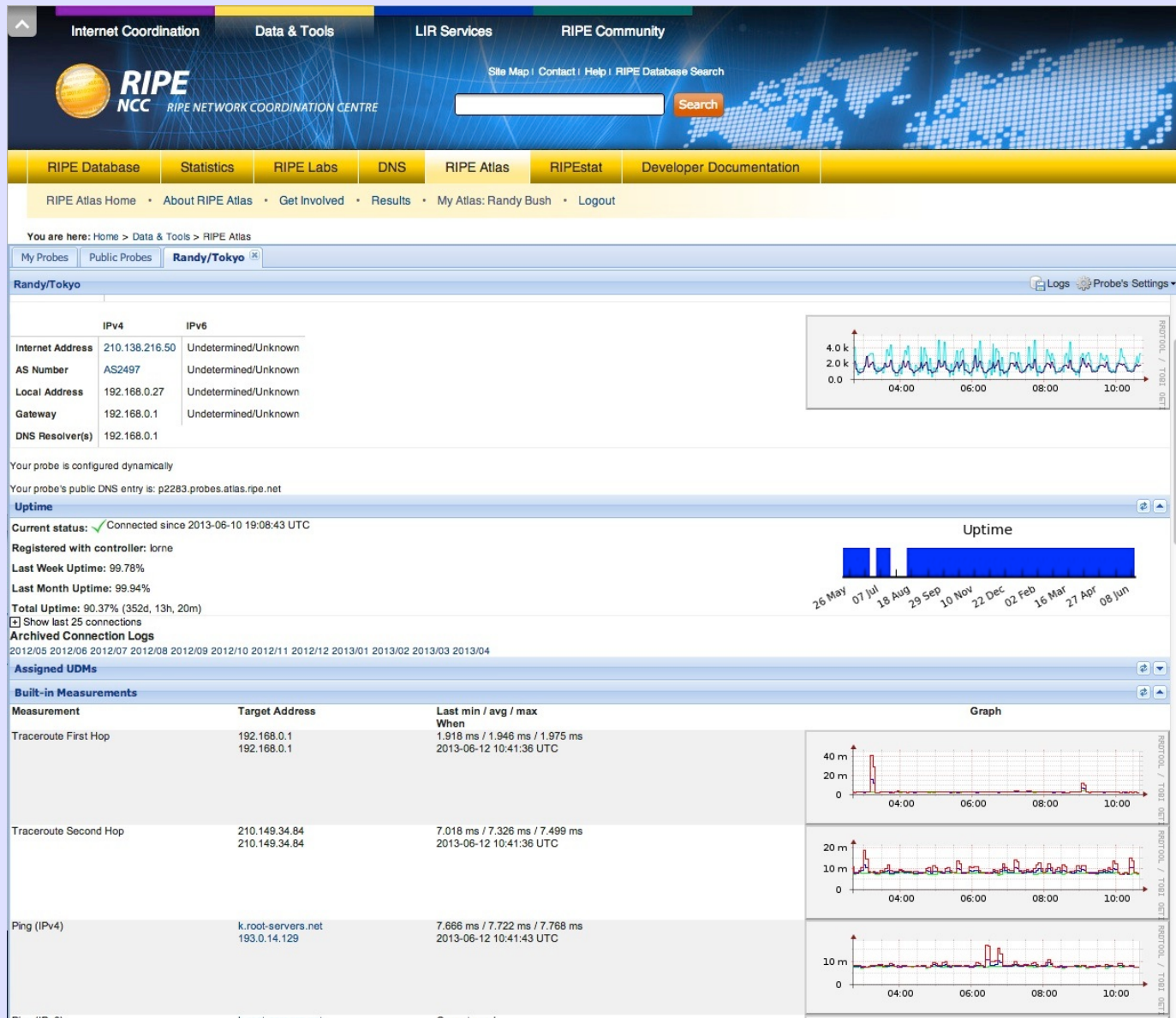
More for Your Money? 😊

That's Nice

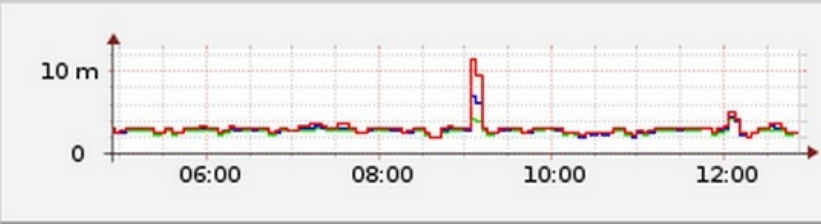
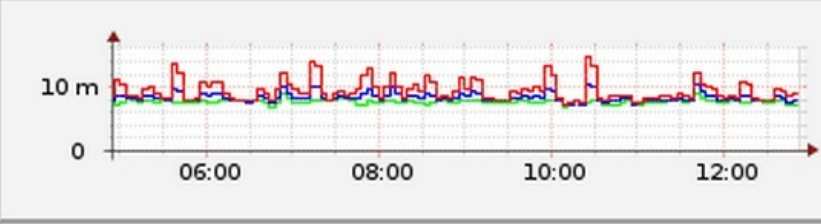
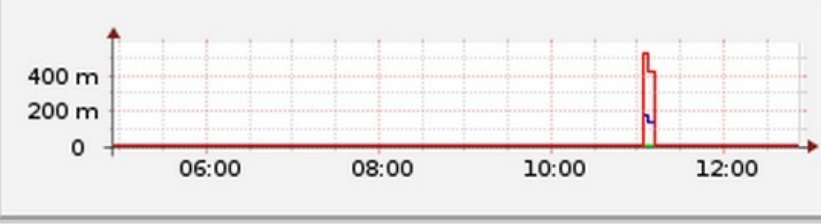
But What Does it

DO?

Measurements!!



Example Pings

Measurement	Target Address	Last min / avg / max When	Graph
Traceroute First Hop	192.168.0.1 192.168.0.1	2.946 ms / 2.988 ms / 3.030 ms 2013-06-12 12:53:45 UTC	
Traceroute Second Hop	210.149.34.84 210.149.34.84	7.821 ms / 8.422 ms / 9.058 ms 2013-06-12 12:53:45 UTC	
Ping (IPv4)	k.root-servers.net 193.0.14.129	7.813 ms / 13.483 ms / 24.672 ms 2013-06-12 12:53:48 UTC	

3,711 Probes



Map data ©2013 MapLink - Terms of Use

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

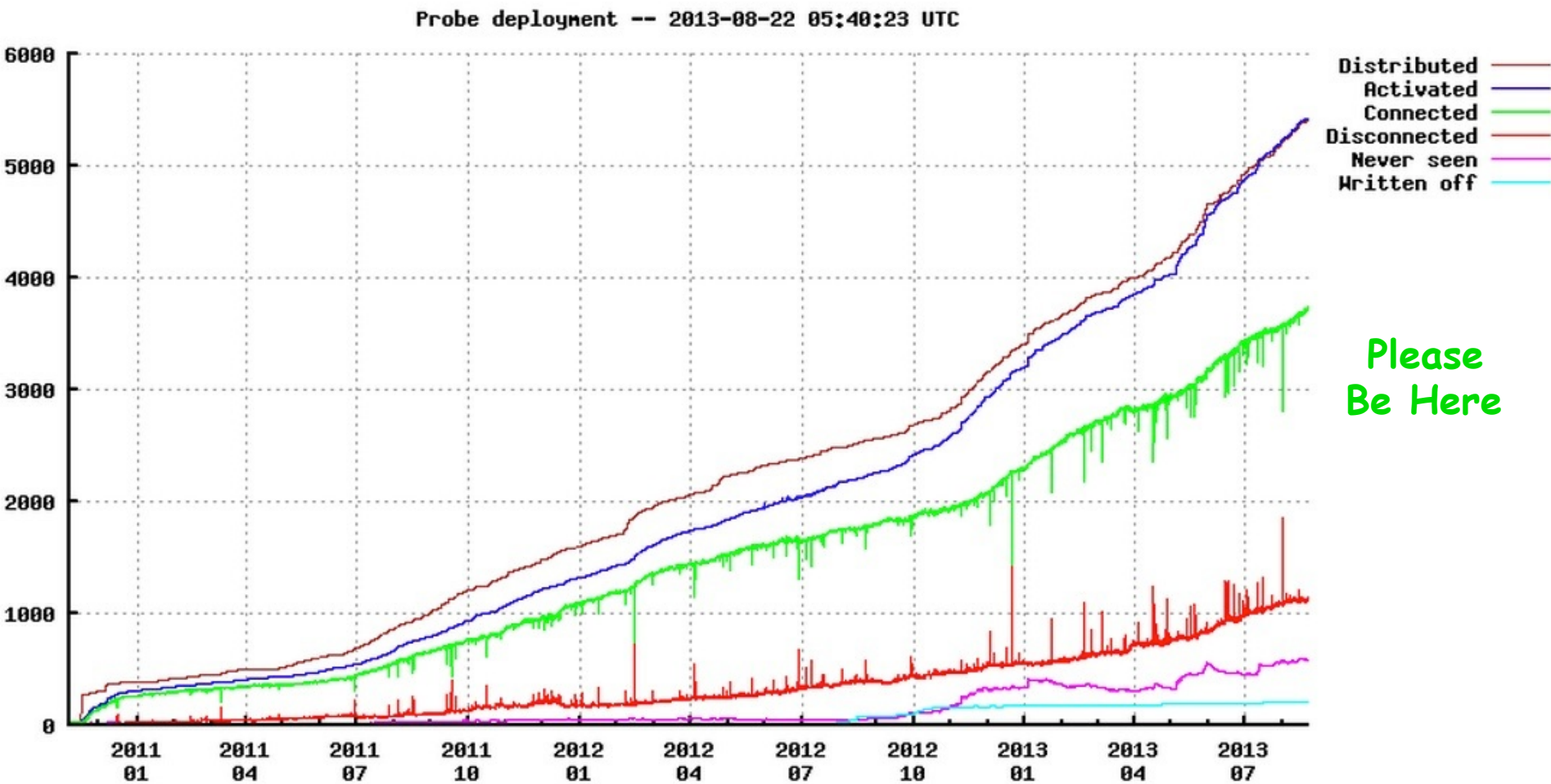
- Powered by USB (500mA or greater)
- Internet connectivity via Ethernet
- It will attempt to configure itself with DHCP
- Uses 4-6 Kbps of bandwidth (< 2GB/month)
- Needs to be able to do: DHCP, DNS, HTTP(S), and ICMP at a minimum

Lots of Ways to Plug In



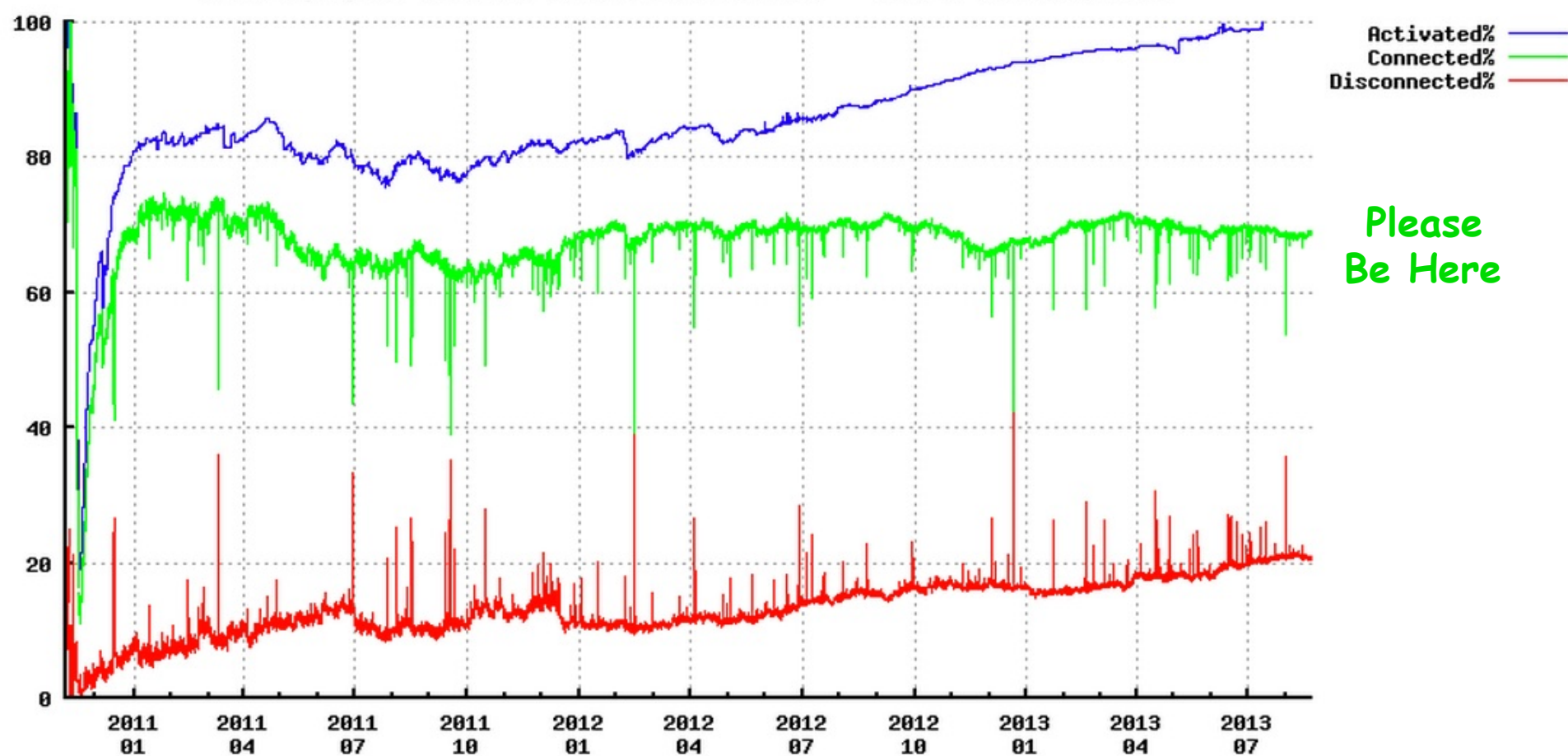
Plug It In!

Be On The Green Line



As Percentage

Probe deployment (relative to distributed amount) -- 2013-08-22 05:40:24 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 fourth LEDs will light up when the probe has fully connected.

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

Plug it In

Then Register at RIPE

Register at RIPE

← → ↻ 🏠 <https://atlas.ripe.net/register/>

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

On what sort of network will 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*

My network supports IPv6 ⓘ ☐

IPv6 Network Prefix *Optional*

How did you receive your probe? * From conference/training

Please tell us where/when you received your probe *

Creative Commons: Attribution & Share Alike

And Send in a Picture!

