Mayo 2022

Manual de Instalación de RIPE ATLAS

Deployathon RIPE ATLAS

ISOC Capítulo de Panamá

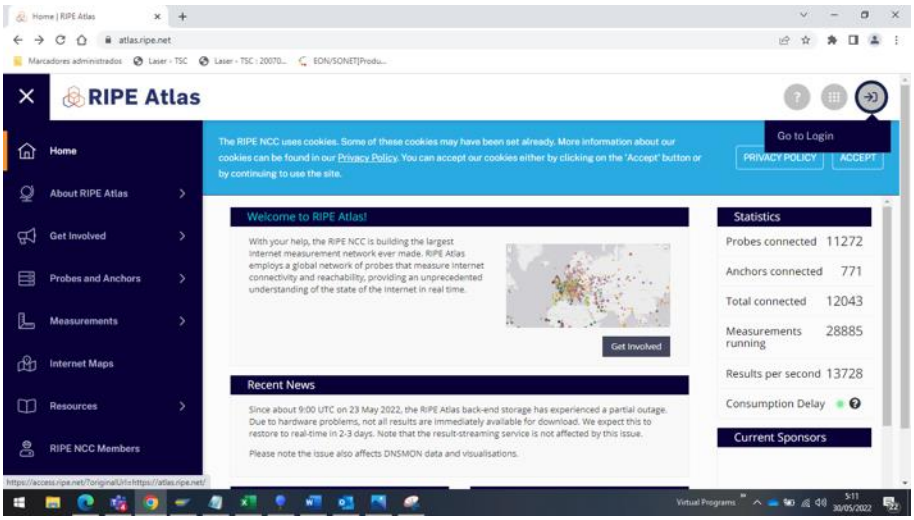
Internet Society

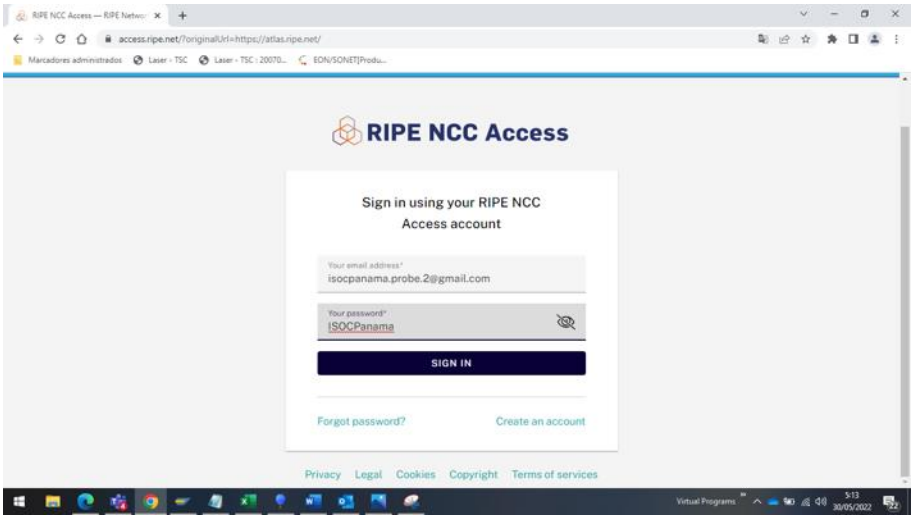
Deployathon RIPE ATLAS

Para el evento hemos creado una cuenta de correo de gmail y una cuenta de RIPE ATLAS la cual utilizará para registrar el equipo Raspberry Pi en la plataforma de RIPE ATLAS.

La cuenta de correo que usted utilizará tiene el formato isocpanama.probe.#@gmail.com en donde el símbolo "#" será remplazado por el número que está escrito en el kit Raspberry Pi que se le entregó. El password del correo es: DeployathonRipeAtlas. **Favor no cambie los passwords de las cuentas de correo ni de RIPE ATLAS** que se les están entregando, estas son necesarias para trasladar un equipo ya registrado.

Para entrar a su cuenta de RIPE ATLAS por favor dirigirse a https://atlas.ripe.net/ y utilizar la cuenta de correo de gmail que se le creó para el evento (isocpanama.probe.#@gmail.com) y utilice la contraseña: *ISOCPanama*. A continuación se detalla paso a paso cómo entrar a su cuenta de RIPE ATLAS.

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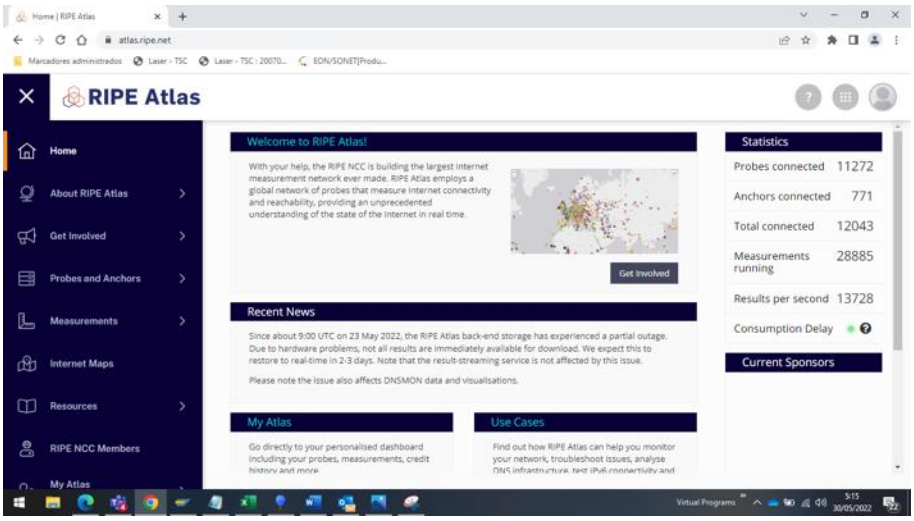
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Welcome to RIPE Atlas!
With your help, the RIPE NCC is building the largest internet measurement network ever made. RIPE Atlas employs a global network of probes that measure internet connectivity and reachability, providing an unprecedented understanding of the state of the Internet in real time.
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Recent News
Since about 9:00 UTC on 23 May 2022, the RIPE Atlas back-end storage has experienced a partial outage. Due to hardware problems, not all results are immediately available for download. We expect this to restore to real-time in 2-3 days. Note that the result-streaming service is not affected by this issue.
Please note the issue also affects DNSMON data and visualisations.
My Atlas
Go directly to your personalised dashboard including your probes, measurements, credit history and more
Use Cases
Find out how RIPE Atlas can help you monitor your network, troubleshoot issues, analyse
Statistics
Probes connected 11272
Anchors connected 771
Total connected 12043
Measurements running 28885
Results per second 13728
Consumption Delay
Current Sponsors

Manual de Instalación

1. Conexión de su Raspberry Pi

El primer paso es conectar su Raspberry Pi a todos lo perféricos requeridos para iniciar el proceso de instalación: teclado y mouse USB, Monitor HDMI, cable de red Ethernet a su router de Interner y finalmente la fuentes de poder.

Al encenderlo debe llegar al desktop/escritorio del sistema operativo (SO).

El paso a paso de instalación de la plataforma RIPE ATLAS en los equipos Raspberry Pi lo hemos tomado del siguiente link url: https://github.com/RIPE-NCC/ripe-atlas-software-probe/blob/master/INSTALL.rst

De igual forma pueden encontrar un tutorial de instalación paso a paso en el video de youtube que se detalla a continuación https://www.youtube.com/watch?v=8uvzE6bhks4

To create a deb for Debian or Debian-based distros

Currently only the Debian Build system includes support for amd64, arm64, and armhf.

- Get the needed tools: `sudo apt update && sudo apt install git tar fakeroot libssl-dev libcap2-bin autoconf automake libtool build-essential`
- Clone the repo: `git clone --recursive https://github.com/RIPE-NCC/ripe-atlas-software-probe.git`
- Build the needed .deb file in the current working directory: `./ripe-atlas-software-probe/build-config/debian/bin/make-deb`

(Please note if you are running Ubuntu it may be required to checkout the devel branch of this repo. If this is the case and the .deb build does not complete without failing this is the command sequence to follow before trying the install of the .deb);

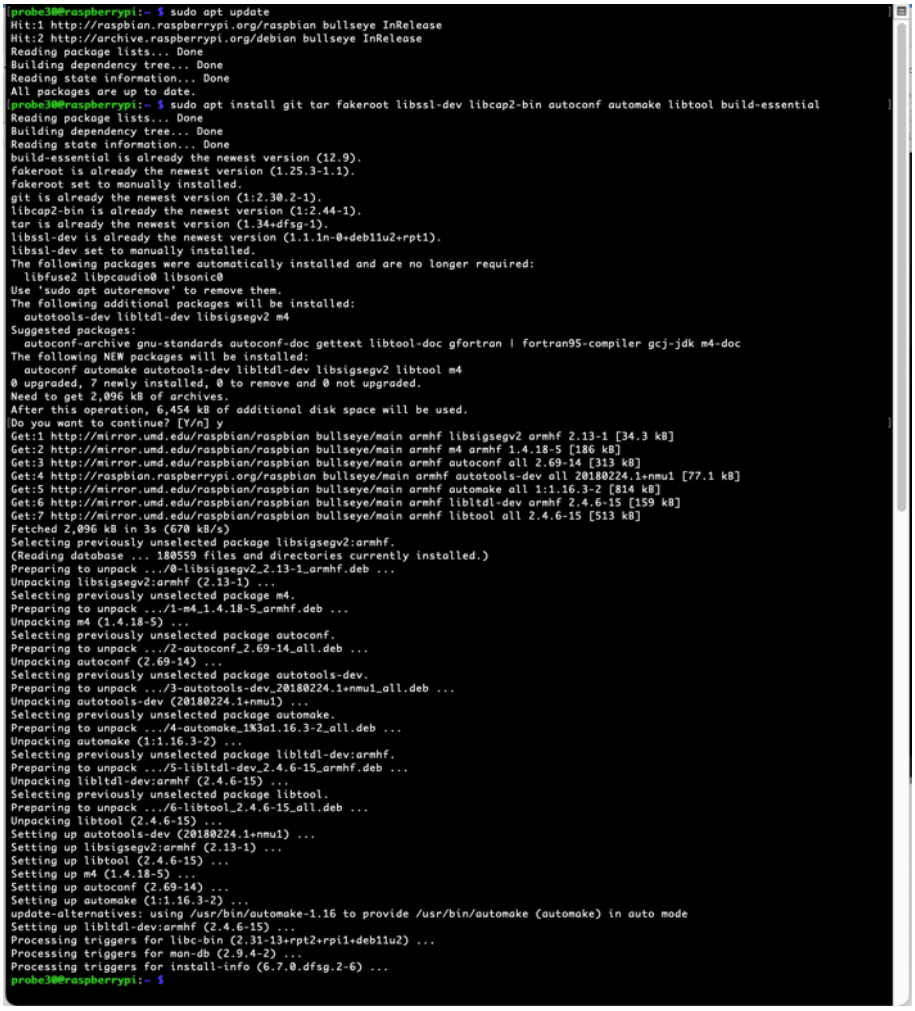
- `cd ripe-atlas-software-probe` << this will change into the root directory of the git repo that you have clone
- `git checkout devel` << this will checkout the DEVEL branch instead of the MASTER branch
- `git submodule update` << this will update the submodule within this branch
- `cd ..` << this take you back to where you started
- `./ripe-atlas-software-probe/build-config/debian/bin/make-deb` << this will retry the build

- Install this .deb file: `sudo dpkg -i atlasswprobe-??????.deb`
- The public key is stored in `/var/atlas-probe/etc/probe_key.pub`
- Then register your probe at https://atlas.ripe.net/apply/swprobe/

2. Actualizar el sistema operativo y obtener las herramientas necesarias:

Comandos

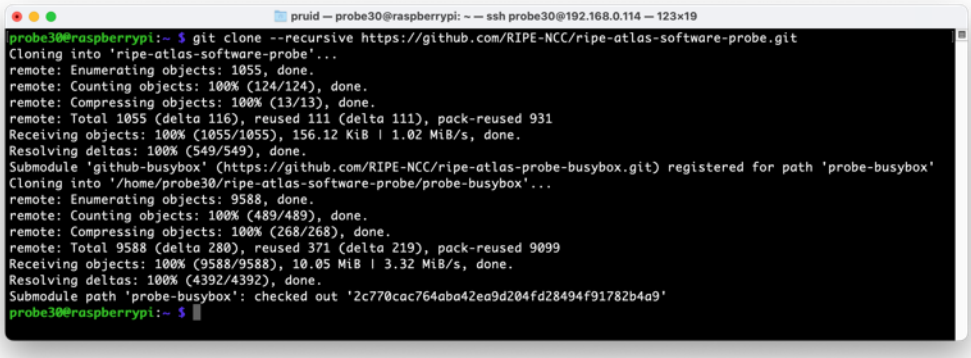
```
sudo apt update
sudo apt install git tar fakeroot libssl-dev libcap2-bin autoconf automake libtool build-essential
```



3. Clonar el repositorio de github:

Comandos

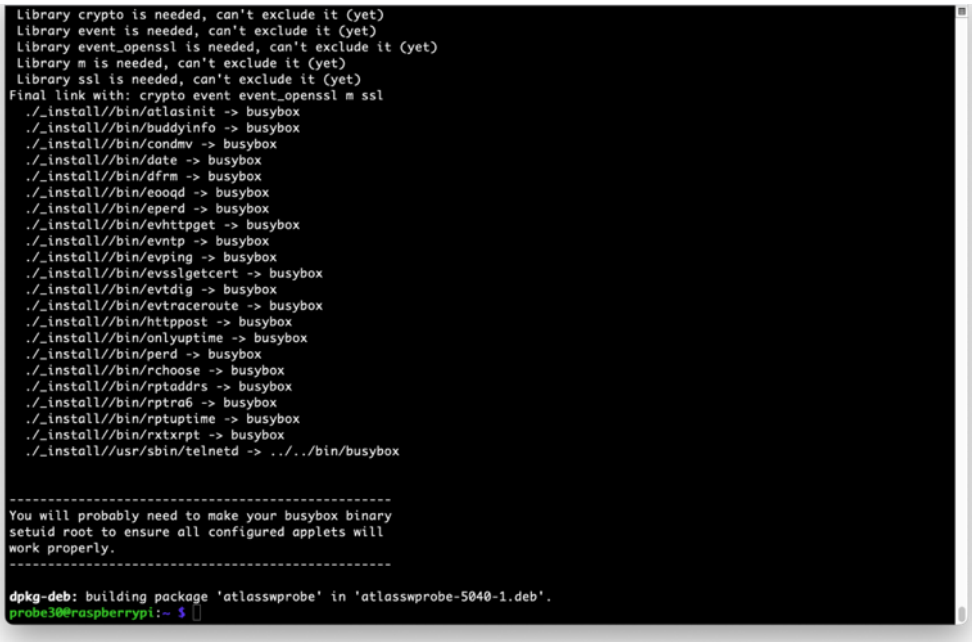
```
git clone --recursive https://github.com/RIPE-NCC/ripe-atlas-software-probe.git
```



4. Construir el archivo .deb en el directorio de trabajo actual:

Comando

./ripe-atlas-software-probe/build-config/debian/bin/make-deb



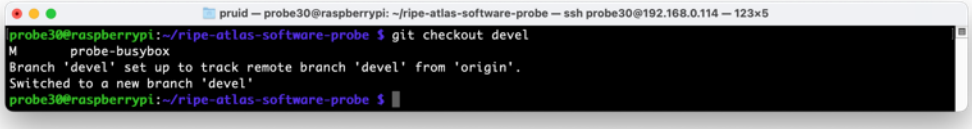
4.1. Comprobación del DEVEL banch del repositorio:

Comando

cd ripe-atlas-software-probe << esto cambiará al directorio root del repositorio git que se clonó

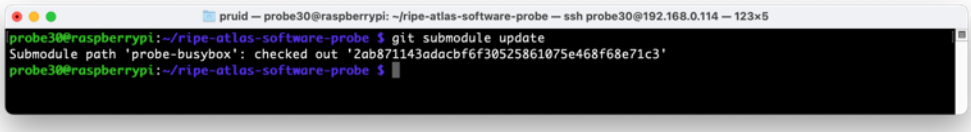
Comando

git checkout devel << esto hará que se compruebe la DEVEL branch en lugar de la MASTER branch



Comando

git submodule update << esto actulizará el submodule en este branch

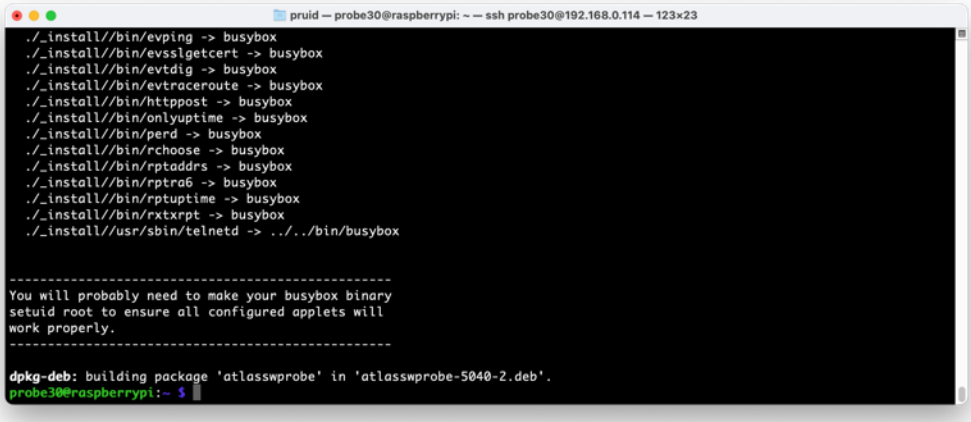


Comando

cd .. << esto te llevará donde empezaste

Comando

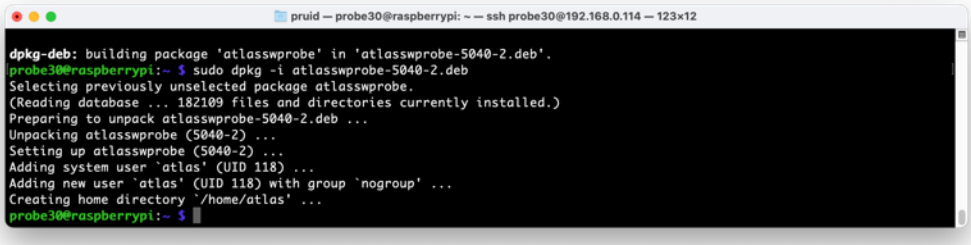
./ripe-atlas-software-probe/build-config/debian/bin/make-deb << esto reintentará la construcción



5. Instalar el archivo atlasswprobe-??????.deb. creado en el paso anterior:

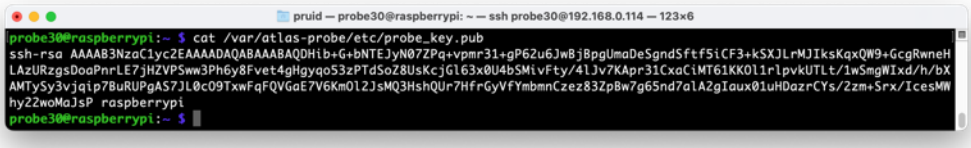
Comando

sudo dpkg -i atlasswprobe-??????.deb



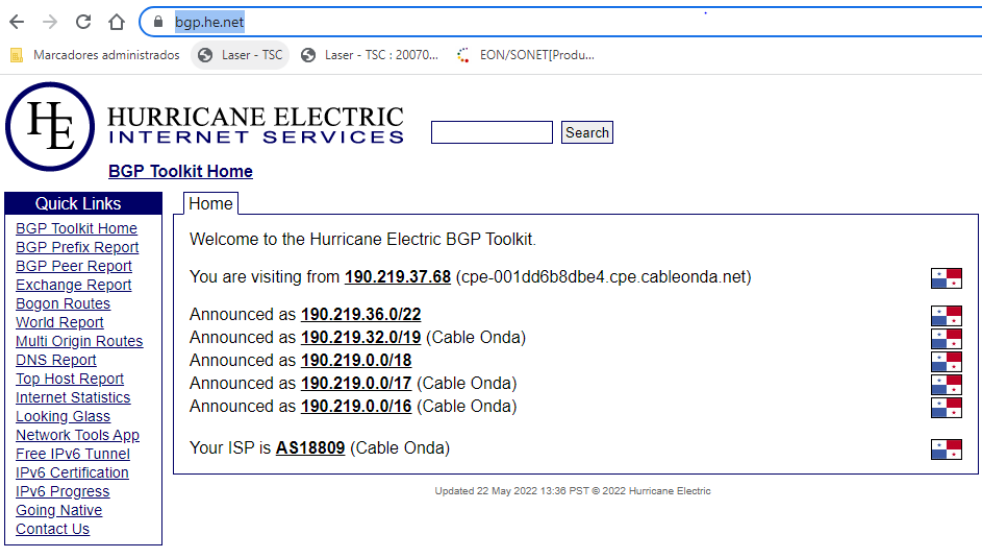
6. Buscaremos la llave pública

`cat /var/atlas-probe/etc/probe_key.pub`



7. Buscar el Sistema Autónomo BGP (ASN) de su proveedor de internet

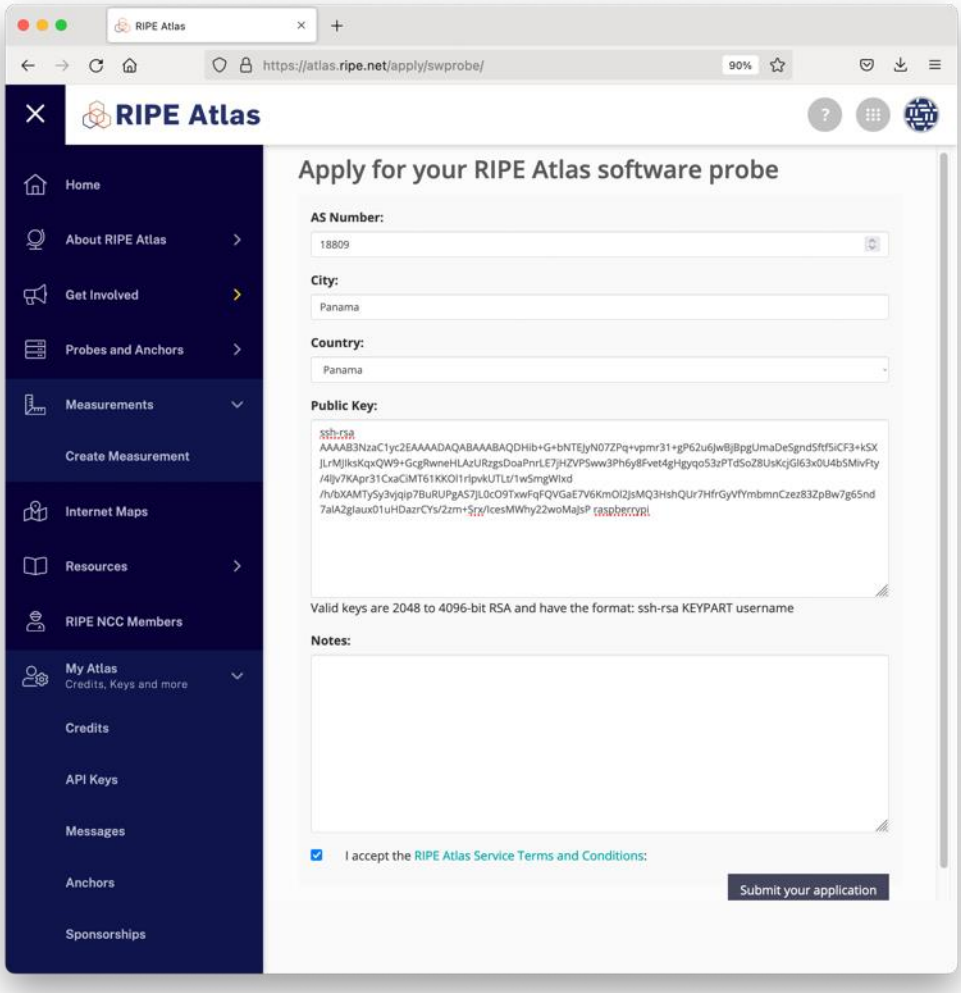
En el navedador abrir `https://bgp.he.net/`



8. Registro del probe/sonda de software en RIPE ATLAS:

Acceso directo al registro en https://atlas.ripe.net/apply/swprobe/

En la página web https://atlas.ripe.net debe ir a MyAtlas → host a probe → apply online → the software probe application form.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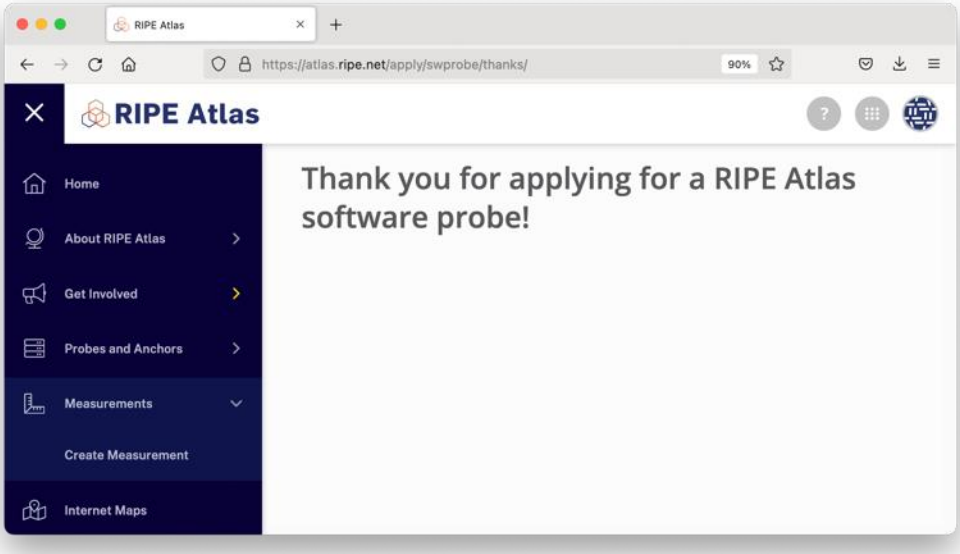
Apply for your RIPE Atlas software probe
AS Number:
18809
City:
Panama
Country:
Panama
Public Key:
ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAABAQDHib+G+bNTEJyN07ZPq+vpmr31+gP62u6JwBjBpgUmaDeSgnd5ftf5iCF3+kSX
JLrMJlksKqxQW9+GcgRwneHLAzURzgsDoaPnrLE7jHZVP5ww3Ph6y8Fvet4gHgyqo53zPTdSoZ8UsKcjGl63x0U4b5MivFty
/4ljv7KApr31CxaCiMT61KKOI1rIpvkUTLt/1wSmgWlxd
/h/bXAMTySy3vjqip7BuRUPgAS7JL0cO9TxwFqFQVGaE7V6KmOI2JsMQ3HshQUr7HfrGyVfYmbmnCzez83ZpBw7g65nd
7aIA2gIaux01uHDazrCYs/2zm+Srx/IcesMWhy22woMaJsP raspberrypi
Valid keys are 2048 to 4096-bit RSA and have the format: ssh-rsa KEYPART username
Notes:
I accept the RIPE Atlas Service Terms and Conditions:
Submit your application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https://atlas.ripe.net/apply/swprobe/thanks/
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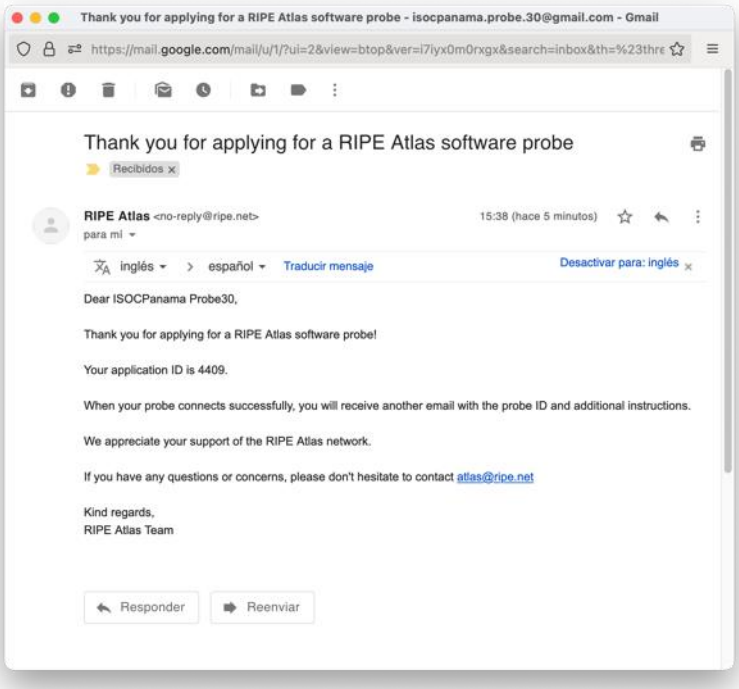
Measurements
Create Measurement
Internet Maps
Thank you for applying for a RIPE Atlas software probe!

9. Confirmación de aplicación de RIPE ATLAS.

Recibirás un correo con la confirmación se tu aplicación y cuando la sonda se conecte satisfactoriamente recibiás otro correo con instrucciones adicionales.



10. Confirmación de Creación del probe en RIPE ATLAS