



We RPKI

Martin Hoffmann
– RIPE 77 –



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RPKI Dashboard

2 CERTIFIED RESOURCES

ALERTS ARE SENT TO 1 ADDRESS

 **2 BGP Announcements**

 2 Valid

 0 Invalid

 0 Unknown

 **2 ROAs**

 2 OK

 0 Causing problems

[BGP Announcements](#)

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 Discard Changes

 Delete ROAs

 Causing Problems

☒ Not Causing Problems

[+ New ROA](#)

☐ AS number

Prefix

Most specific length
allowed

Affects

AS Number

Prefix

Max length

☐ AS199664

2a04:b900::/29

29

1

☐ AS199664

185.49.140.0/22

22

1

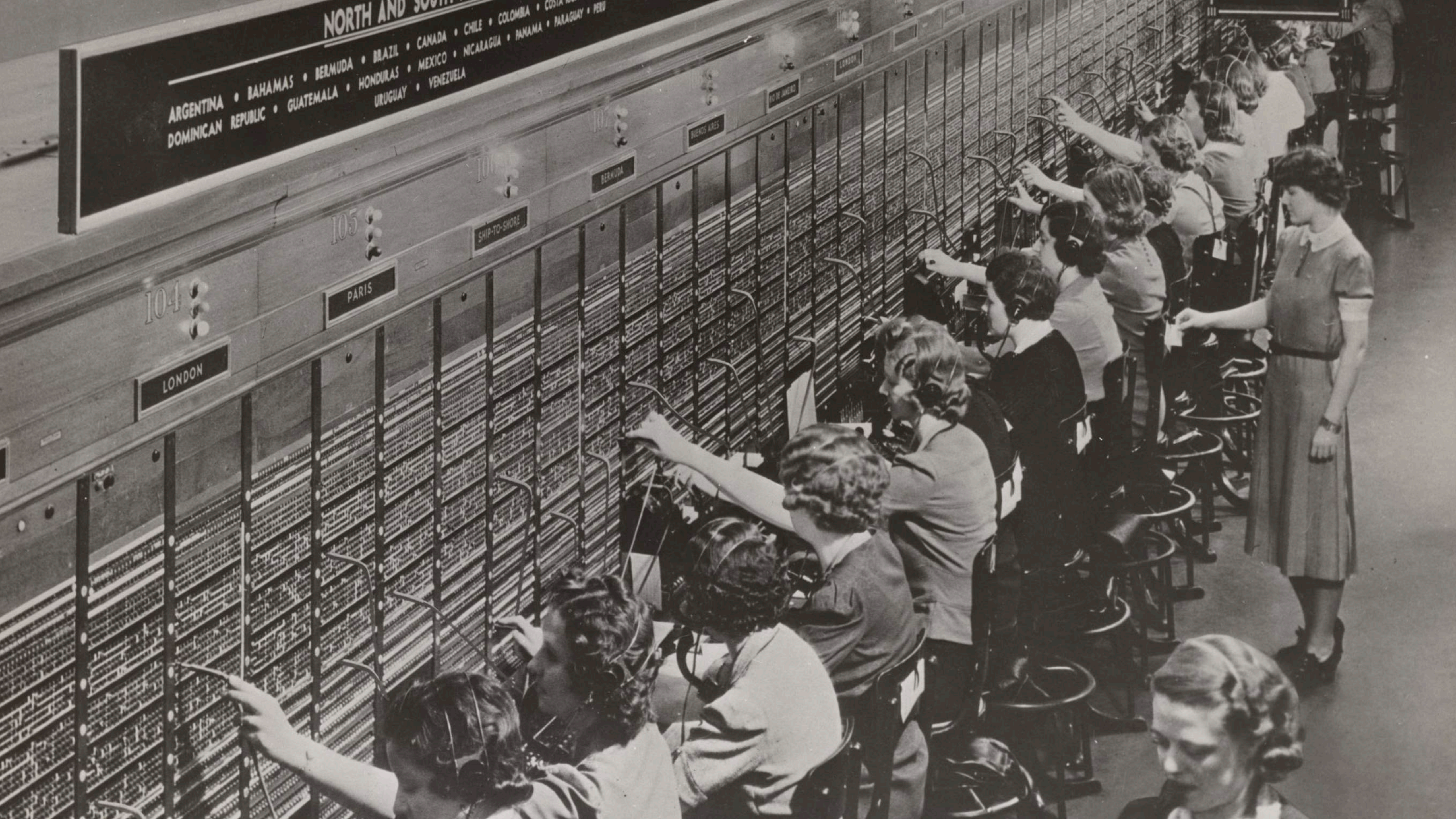
 

Show 25 of 2 items



<https://nlnetlabs.nl/projects/rpki/project-plan/>

Photo by Soner Eker on Unsplash





ROUTINATOR

<https://github.com/nlnetlabs/routinator>

```
m@grisu:~/git/$ curl https://sh.rustup.rs -sSf | sh
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m@grisu:~/git/$ git clone https://github.com/NLnetLabs/routinator.git
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m@grisu:~/git/$ git clone https://github.com/NLnetLabs/routinator.git
m@grisu:~/git/$ cd routinator
m@grisu:~/git/routinator$ ls rpki-cache/tal/
afrinic.tal      apnic.tal        arin.tal         lacnic.tal       ripe.tal

m@grisu:~/git/routinator$
```

```
m@grisu:~/git/$ curl https://sh.rustup.rs -sSf | sh
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m@grisu:~/git/routinator$ ls rpki-cache/tal/
afrinic.tal    apnic.tal      arin.tal      lacnic.tal    ripe.tal

m@grisu:~/git/routinator$ cargo run --release
    Finished release [optimized] target(s) in ████████s
    Running `target/release/routinator`
```

```
m@grisu:~/git/routinator$ cargo run --release
    Finished release [optimized] target(s) in 1.62s
    Running `target/release/routinator`
MISSING TRUST ANCHOR LOCATOR
```

The trust anchor locator (TAL) in file

`rpki-cache/tal/arin.tal`

has not been installed. Please go to

<https://www.arin.net/resources/rpki/tal.html>

and download the TAL in RFC 7730 format. Place the downloaded file at

`rpki-cache/tal/arin.tal`.

Routinator will refuse to run until you have done that.

```
m@grisu:~/git/routinator$ cargo run --release
    Finished release [optimized] target(s) in 1.62s
    Running `target/release/routinator`
```

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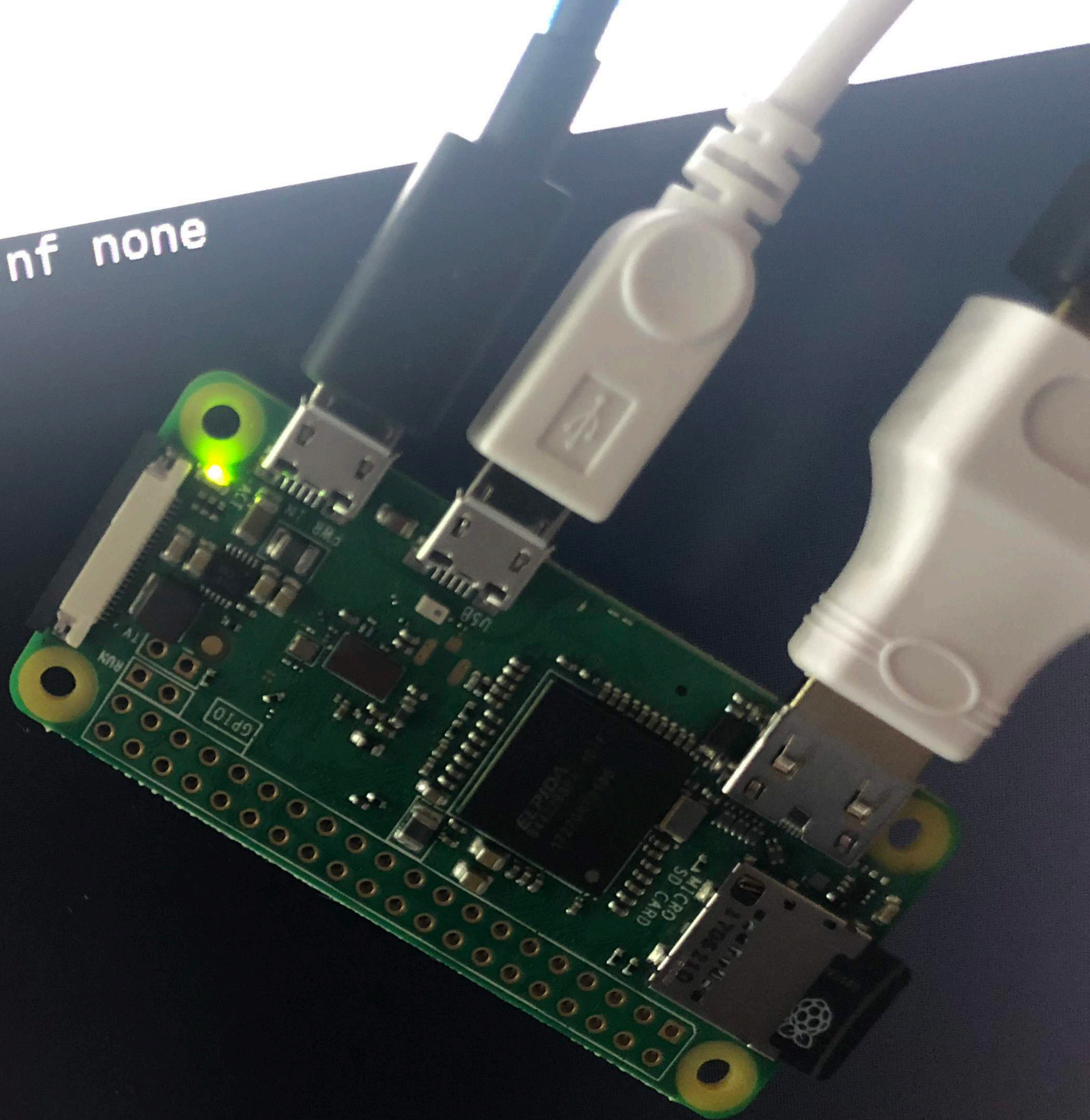
```
rsync: failed to connect to rpki.cnnic.cn: Operation timed out (60)
rsync error: error in socket IO (code 10) at /BuildRoot/Library/Caches/
com.apple.xbs/Sources/rsync/rsync-52/rsync/clientserver.c(106)
[receiver=2.6.9]
```

```
AS197669,91.228.242.0/24,24
AS197669,185.28.212.0/22,24
AS197669,2a04:3fc0::/29,48
AS196810,89.207.232.0/21,25
AS196810,185.15.200.0/22,25
AS196810,178.23.168.0/21,25
AS196810,2a02:ab40::/29,29
AS41047,185.238.131.0/24,24
AS35492,193.238.156.0/22,22
AS35492,185.194.20.0/22,22
AS35492,78.41.112.0/21,21
AS35492,2a02:60::/29,29
AS3316,195.19.26.0/24,32
AS42385,194.85.252.0/23,24
AS8896,185.152.33.0/24,24
AS197595,185.152.35.0/24,24
AS50304,185.152.32.0/22,24
AS50304,2a07:7d80::/29,48
m@grisu:~/git/routinator$ _
```

```
pi@raspberrypi:~$ time ./routinator -nf none
```

```
real    4m58.126s  
user    4m43.880s  
sys     0m6.080s
```

```
pi@raspberrypi:~$
```



```
m@grisu:~/git/routinator-rtr$ cargo run -q -- -h
Routinator 0.1
The NLnet Labs RPKI Team <rpki@nlnetlabs.nl>
validates RPKI route origin attestations
```

USAGE:

```
routinator [FLAGS] [OPTIONS]
```

FLAGS:

-d, --daemon	run in daemon mode (detach from terminal)
-h, --help	Prints help information
-N, --noprocess	don't process the repository
-n, --nouupdate	don't update local cache
-r, --repeat	repeatedly run validation
--strict	parse RPKI data in strict mode
-V, --version	Prints version information
-v, --verbose	print more (and more) information

OPTIONS:

-c, --cache <DIR>	sets the cache directory
-x, --exceptions <FILE>	file with local exceptions (see RFC 8416 for format)
--history <COUNT>	number of history items to keep in repeat mode [default: 10]
-l, --listen <ADDR>	address to listen on for RTR connections
-f, --outform <FORMAT>	sets the output format [possible values: csv, json, rpsl, none]
-o, --output <FILE>	output file, '-' or not present for stdout
--refresh <SECONDS>	refresh interval in seconds [default: 3600]
-t, --tal <DIR>	sets the TAL directory

Interested?

-  <https://nlnetlabs.nl/projects/rpki/about/>
-  <https://github.com/nlnetlabs/routinator>
-  rpki@nlnetlabs.nl
-  [@nlnetlabs](https://twitter.com/nlnetlabs)