

MARTIN HOFFMANN





BORDER GATEWAY PROTOCOL ATTACK -

Suspicious event hijacks Amazon traffic for 2 hours, steals cryptocurrency

Almost 1,300 addresses for Amazon Route 53 rerouted for two hours.

DAN GOODIN - 4/24/2018, 9:00 PM



Amazon lost control of a small number of its cloud services IP addresses for two morning when hackers exploited a known Internet protocol weakness that let the

December 18, 2017 By Pierluigi Paganini

Traffic for Google, Apple, Facebook, Microsoft and other tech giants routed through Russia, experts believe it was an intentional BGP Hijacking.

Last week a suspicious event routed traffic for major tech companies (i.e. Google, Facebook, Apple, and Microsoft) through a previously unknown Russian Internet provider. The event occurred on Wednesday, researchers who investigated it believe the traffic was intentionally hijacked.

The incident involved the Internet's Border Gateway Protocol that is used to route traffic among Internet backbones, ISPs, and other large networks.

BGP Hijacking Attacks Target US Payment Processors

Kovacs on August 07, 2018

acking attacks whose goal was to redirect users to malicious websites, O

der Gateway Protocol (BGP) controls the route of data across the Web. BGF wn as prefix or route hijacking, is carried out by taking over IP address grou ng the routing tables that store the path to a network.

ast months, Oracle, which gained deep visibility into Web traffic after acqui has observed several instances of malicious actors trying to force users to s by targeting authoritative DNS servers in BGP hijacking attacks.

Blog

VANTAGEPOINT

Shutting down the BGP Hijack Factory

Jul 10, 2018 // Doug Madory

ed with a lengthy email to the NANOG mailing list on 25 June ndependent security researcher Ronald Guilmette detailed the ious routing activities of a company called Bitcanal, whom he ed to as a "Hijack Factory." In his post, Ronald detailed some of rtuguese company's most recent BGP hijacks and asked the on: why Bitcanal's transit providers continue to carry its BGP ed routes on to the global internet?

mail kicked off a discussion that led to a concerted effort to kick ad actor, who has hijacked with impunity for many years, off the



ABOUT US

PRODUCTS AND SERVICES

Turkey Hijacking IP addresses for popular Global DNS providers

Posted by Andree Toonk - March 29, 2014 - Hijack, News and Updates - 26 Comments

At BGPmon we see numerous BGP hijacks every single day, some are interesting because of the size and scale of the hijack or as we've seen today because of the targeted hijacked prefixes. It all started last weekend when the Turkish president ordered the censorship of twitter.com. This

> ock of twitter by returning false twitter IP addresses by Turk Telekom DNS sers in Turkey discovered that changing DNS providers to Google DNS or good method of bypassing the censorship. But as of around 9am UTC today 29) this changed when Turk Telekom started to hijack the IP address for

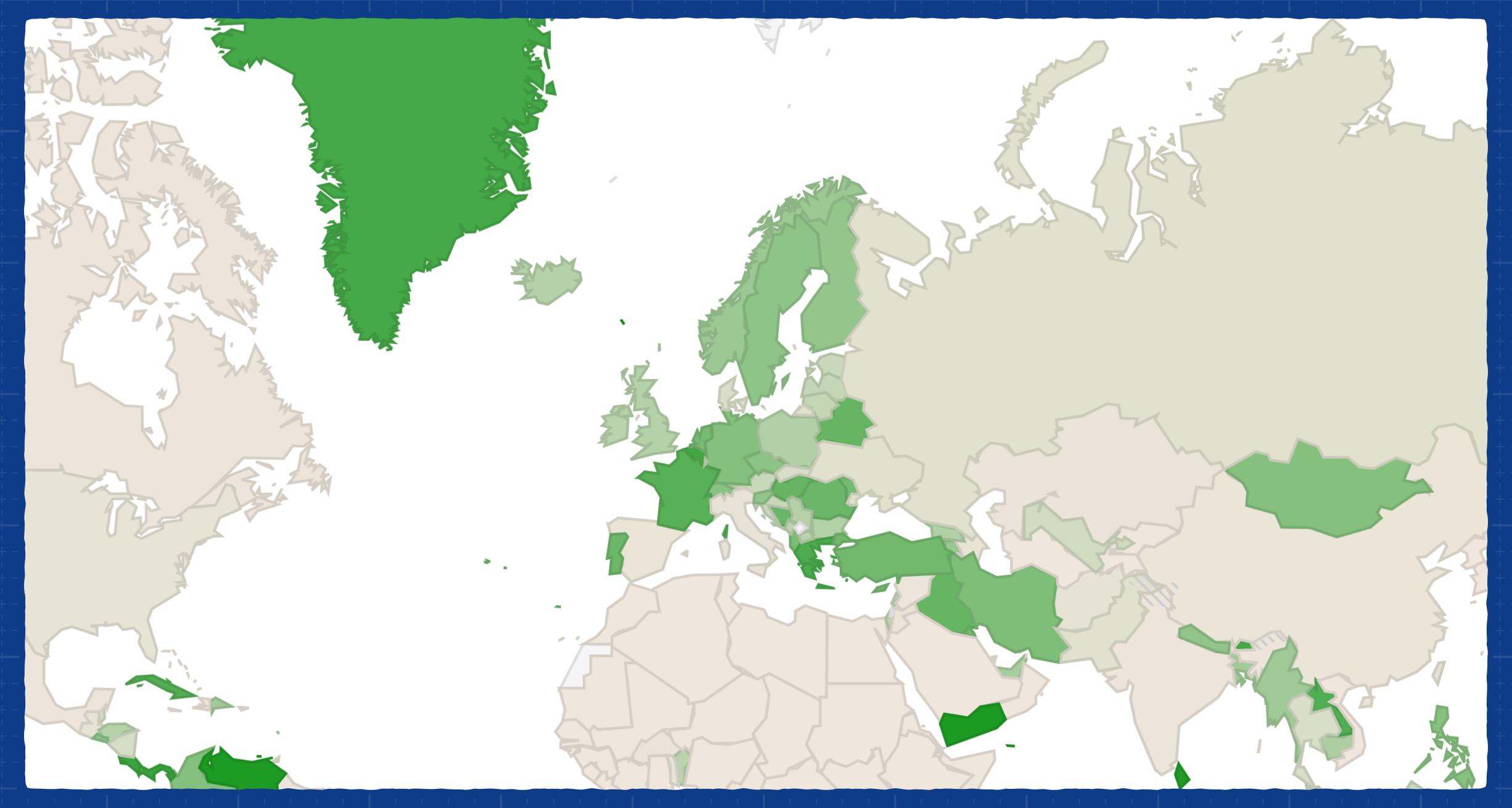
> > c|net

How Pakistan knocked YouTube offline (and how to make sure it never happens again)

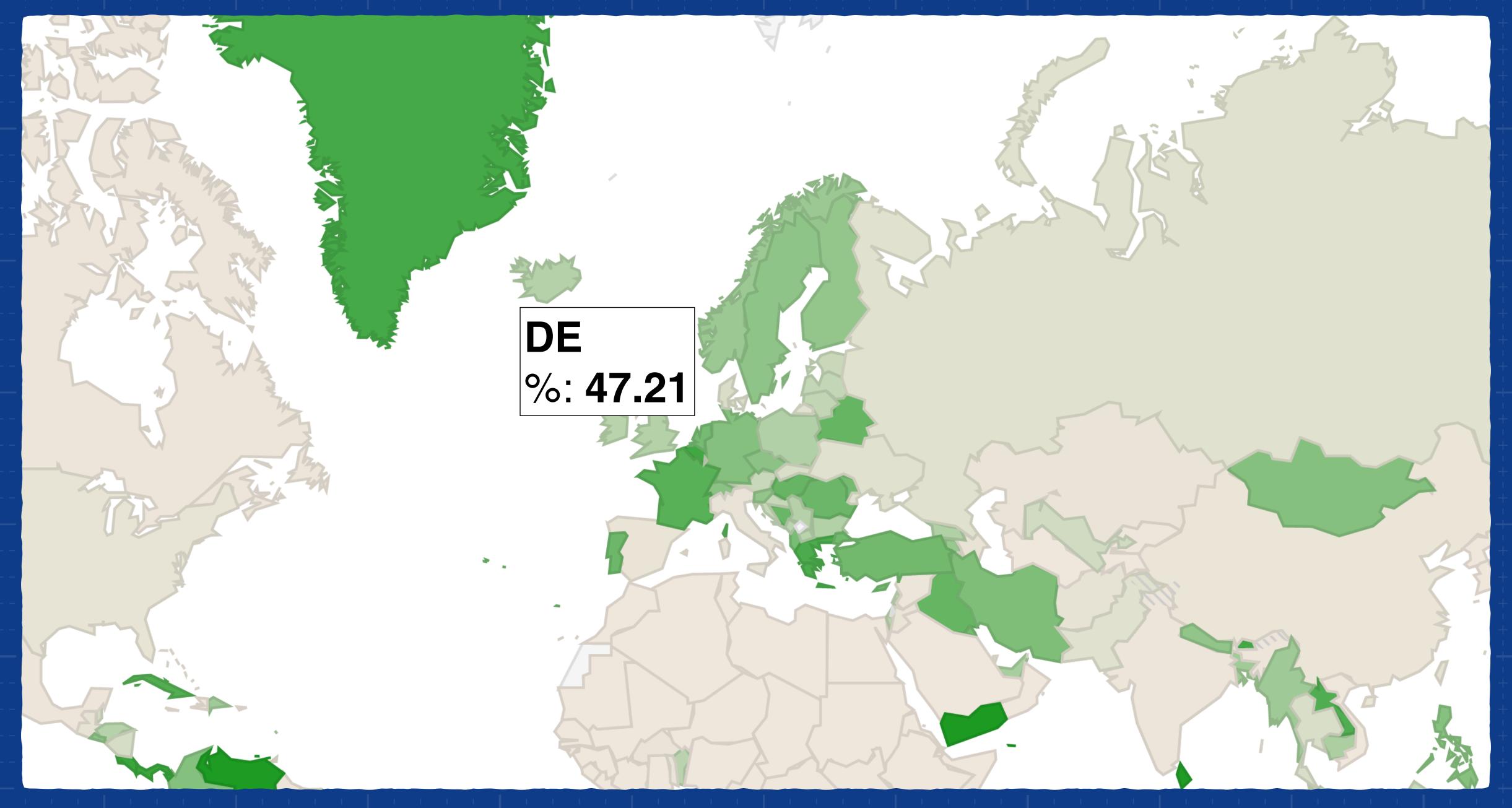
YouTube becoming unreachable isn't the first time that Internet addresses were hijacked. But if it spurs interest in better security, it may be the last.



by Declan McCullagh



https://lirportal.ripe.net/certification/content/static/statistics/world-roas.html



https://lirportal.ripe.net/certification/content/static/statistics/world-roas.html



RIPE Database (Whois)

Website

Search IP Address and ASN

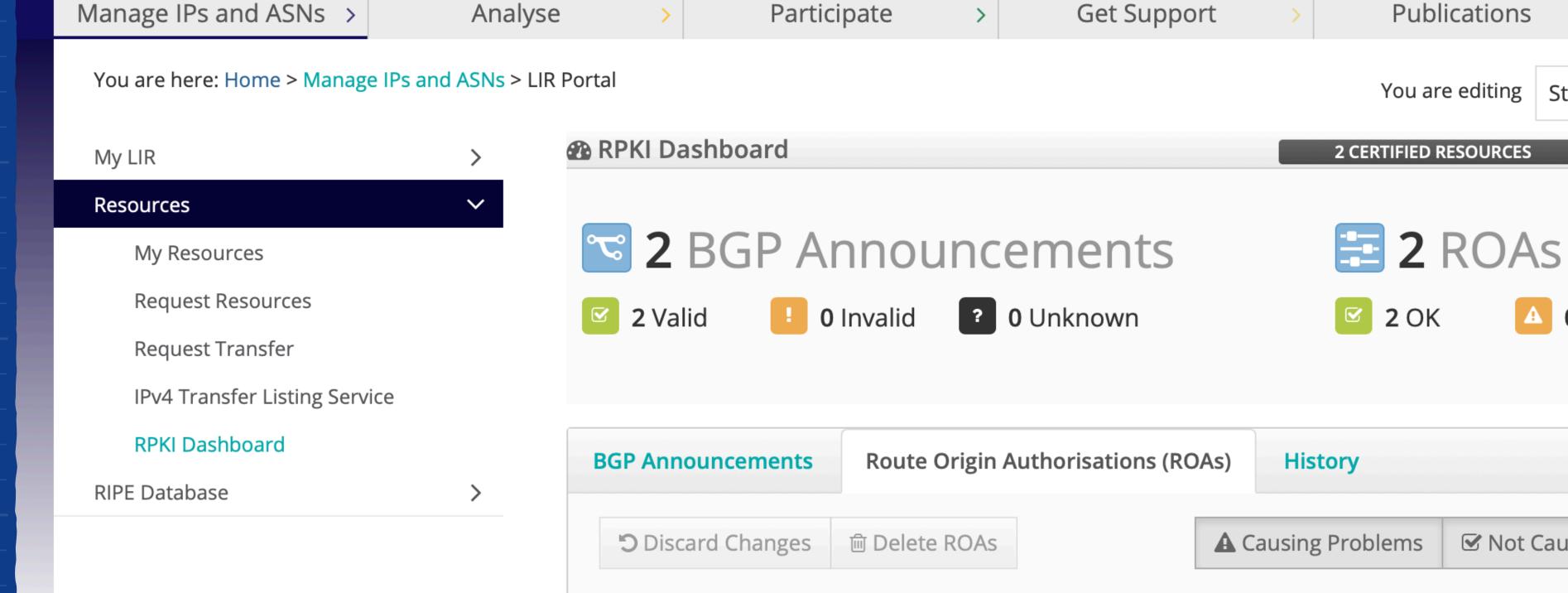
Q

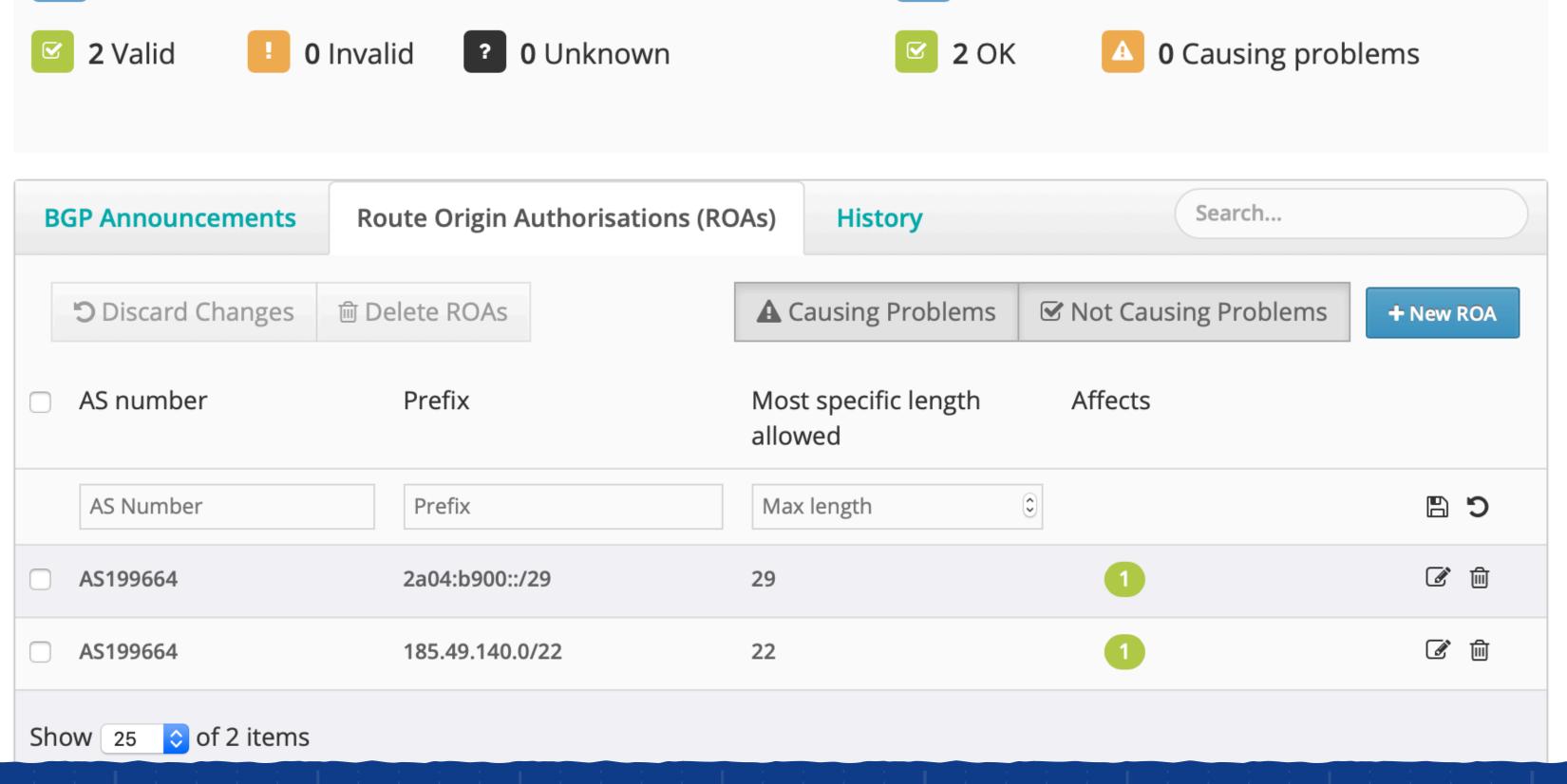
>

About Us

ALERTS ARE SENT TO 1 ADDRESS

Stichting NLnet Labs





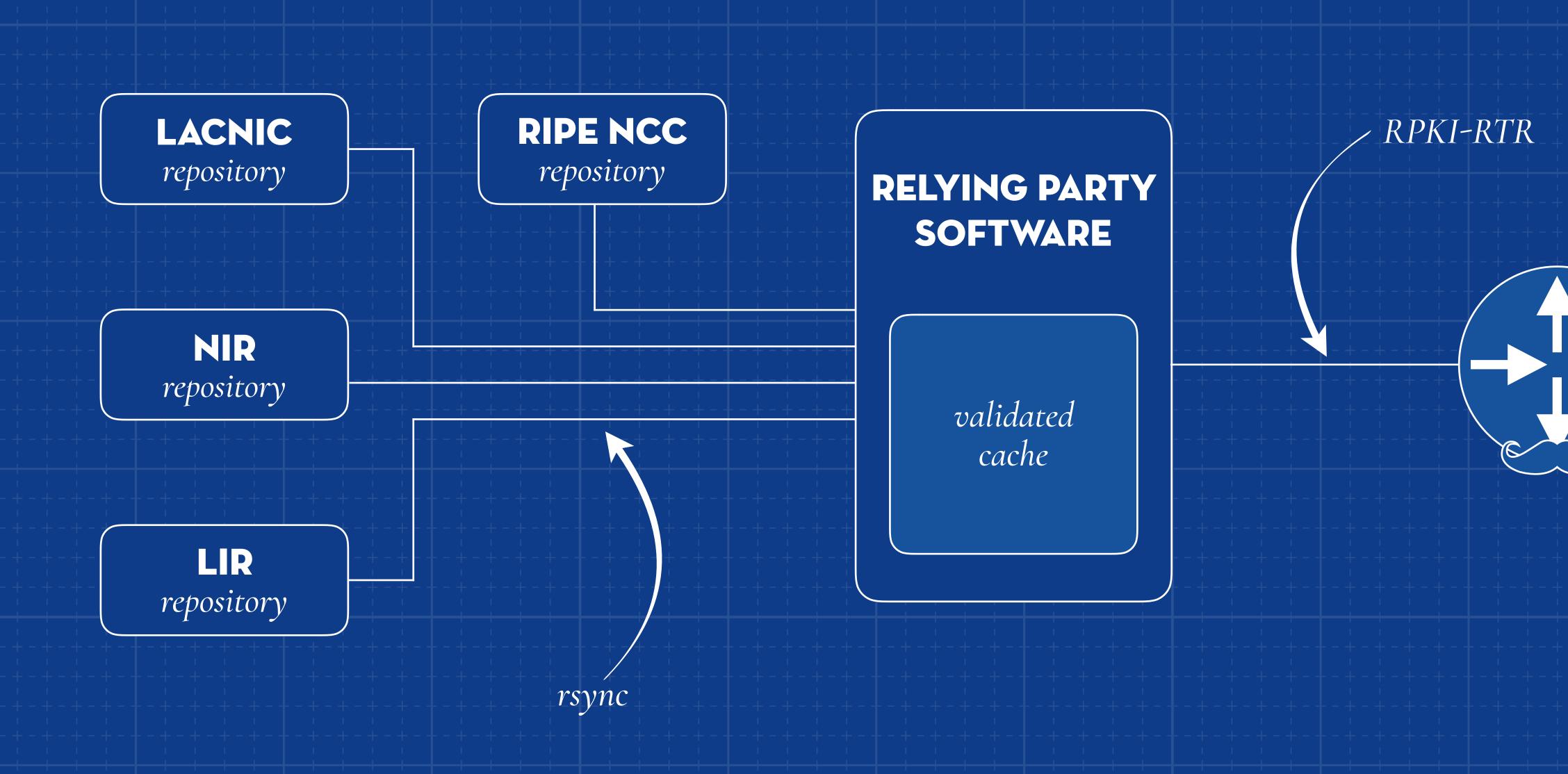
CERTIFICATE AUTHORITY

PUBLICATION SERVER



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





RUTINATOR

```
$ apt-get install rsync build-essential
$ curl https://sh.rustup.rs -sSf | sh
$ source ~/.cargo/env
$ cargo install routinator
$
```

- \$ apt-get install rsync build-essential
- \$ curl https://sh.rustup.rs -sSf | sh
- \$ source ~/.cargo/env
- \$ cargo install routinator
- \$ routinator_

```
$ cargo install routinator
$ routinator
MISSING TRUST ANCHOR LOCATOR

The trust anchor locator (TAL) in file
```

/home/m/.rpki-cache/tals/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

/home/m/.rpki-cache/tals/arin.tal

Routinator will refuse to run until you have done that. \$

\$ routinator -f csv

ASN,IP Prefix,Max Length

AS38719,27.111.92.0/22,22

AS8551,79.178.43.0/24,24

AS56630,2a03:f80:359::/48,48

AS43131,185.236.11.0/24,24

AS64520,2001:13f8:9000::/44,44

^C

\$ routinator -f rpsl

route: 195.176.0.0/17

origin: AS559

descr: RPKI attestation

mnt-by: NA

created: 2018-11-20T14:31:36.791062+00:00

last-modified: 2018-11-20T14:31:36.791062+00:00

source: NA

^C

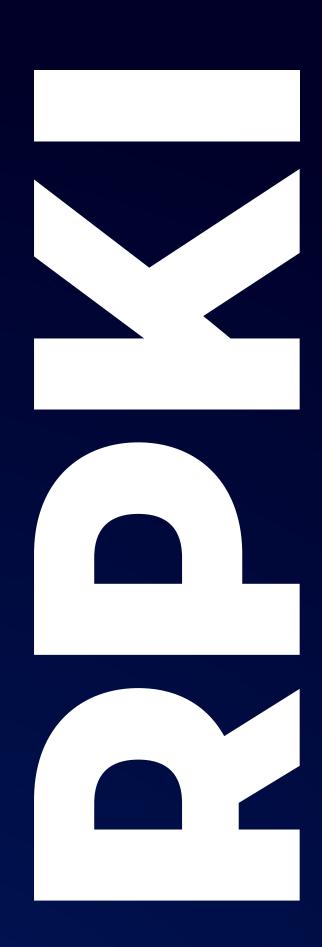
\$ routinator -r -l [2001:0DB8::13]:3323 -v
Starting RTR listener...

```
$ find ~/.rpki-cache/repository -type f | wc -l
42636
$ du -sh ~/.rpki-cache/repository
241M
$
```

```
$ find ~/.rpki-cache/repository -type f | wc -1
42636
$ du -sh ~/.rpki-cache/repository
241M
$ routinator -r &
[1] 12182
$ pmap 12182 | grep total
total 62168K
```

```
$ find ~/.rpki-cache/repository -type f | wc -l
42636
$ du -sh ~/.rpki-cache/repository
241M
$ routinator -r &
[1] 12182
$ pmap 12182 | grep total
                 62168K
 total
$ time routinator -n
       0m5.881s
real
       0m7.224s
user
       0m0.276s
sys
```





MAILING LIST

https://nlnetlabs.nl/mailman/listinfo/rpki

FAQ

https://nlnetlabs.nl/projects/rpki/faq/

https://github.com/nlnetlabs/rpki-faq



- https://github.com/nlnetlabs/routinator
- @ rpki-team@nlnetlabs.nl
- ©routinator3000

