



RIPE NCC

RIPE NETWORK COORDINATION CENTRE

Open-Sourcing RPKI CORE

How we open-sourced a 10+ year old
code base

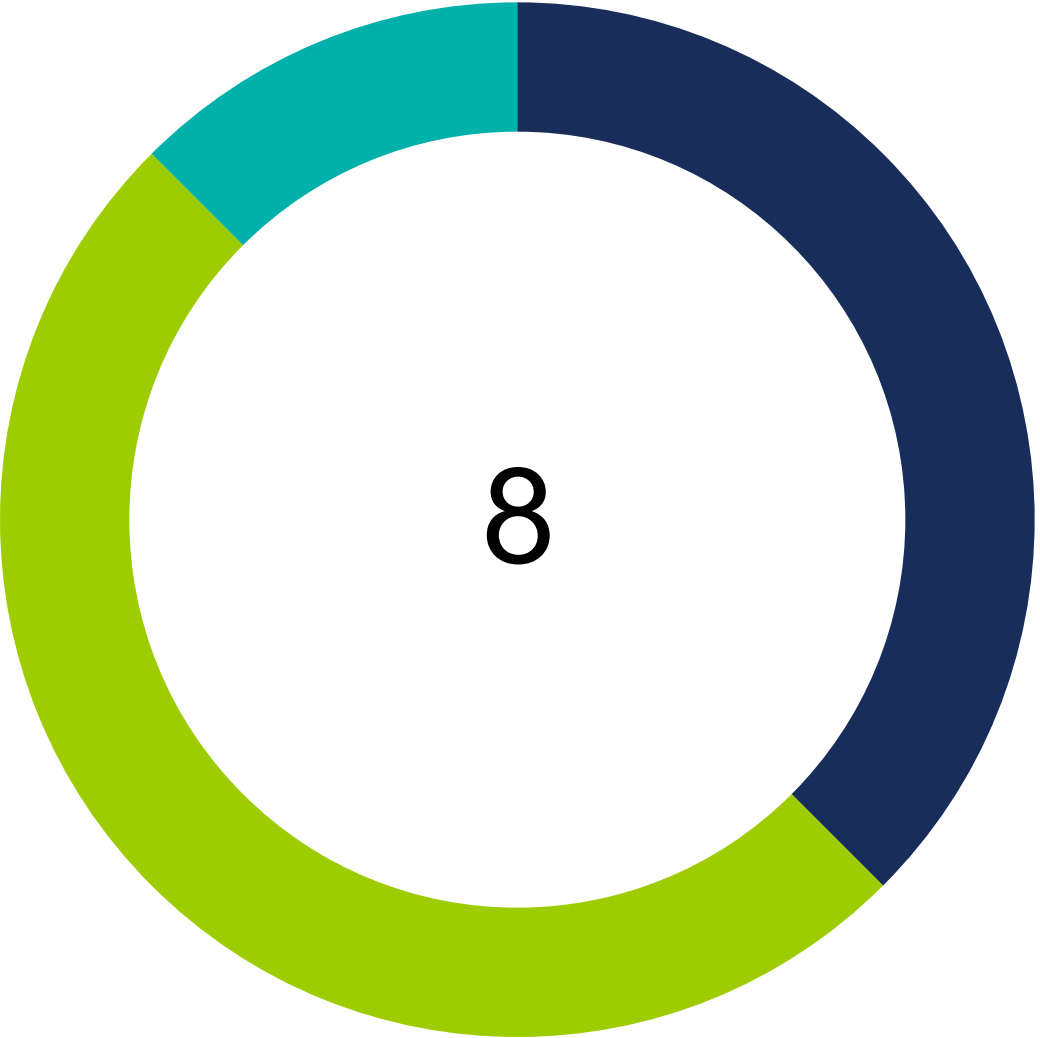
Bart Bakker | May 18, 2022 | RIPE-84

Why Open-Source?

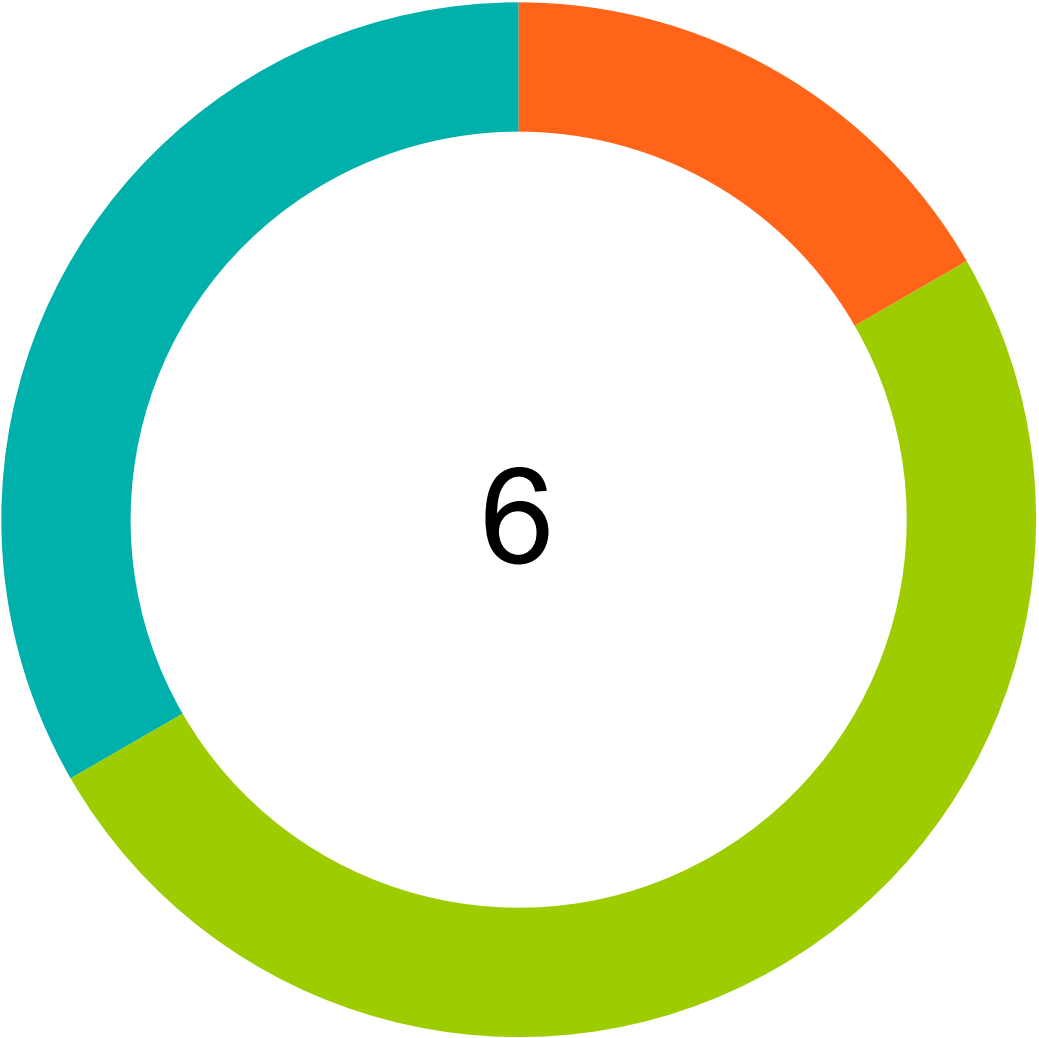


- We operate a Trust Anchor for RPKI
- We aim for a very high level of transparency

Security Assessment Findings



Pentest



Source Code Review

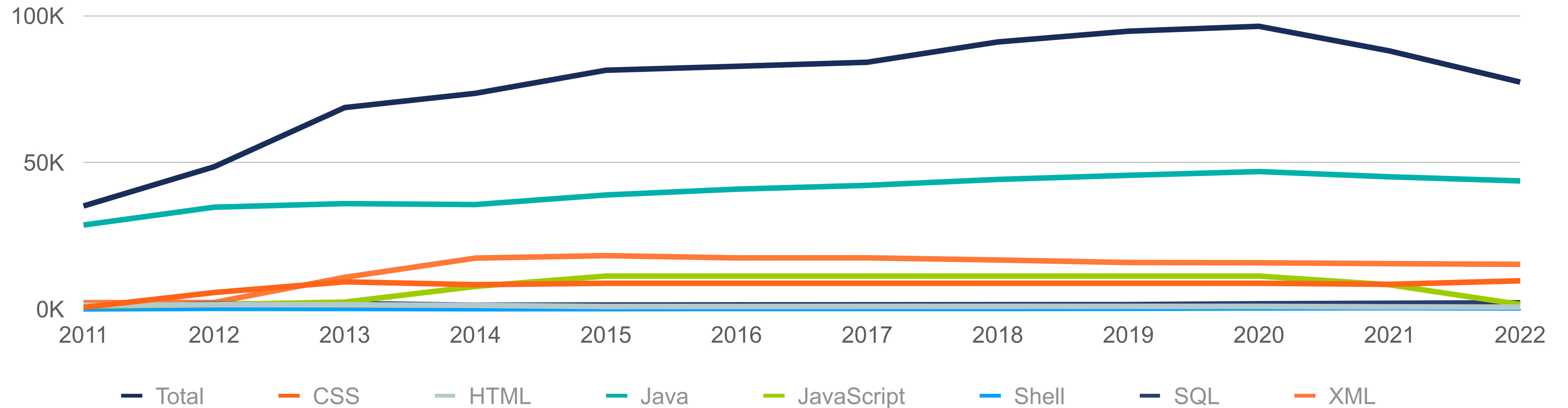
- Done in Q3 2021
- The full reports are published on our website:
<https://www.ripe.net/manage-ips-and-asns/resource-management/rpki/security-and-compliance>

Dependencies



- Compile time dependencies
 - Proprietary HSM library
- Runtime dependencies
 - Resource cache
 - LIR information
- Trust Anchor Software

History



- 10+ years
- 4280 commits
- 88835 lines of code (February 2022)

Publish New Tree



Open Source RPKI core

[Browse files](#)

This initial commit contains the source code of RPKI core that runs in production on February 9, 2022. As detailed in README.md, the history up to this point goes unpublished.

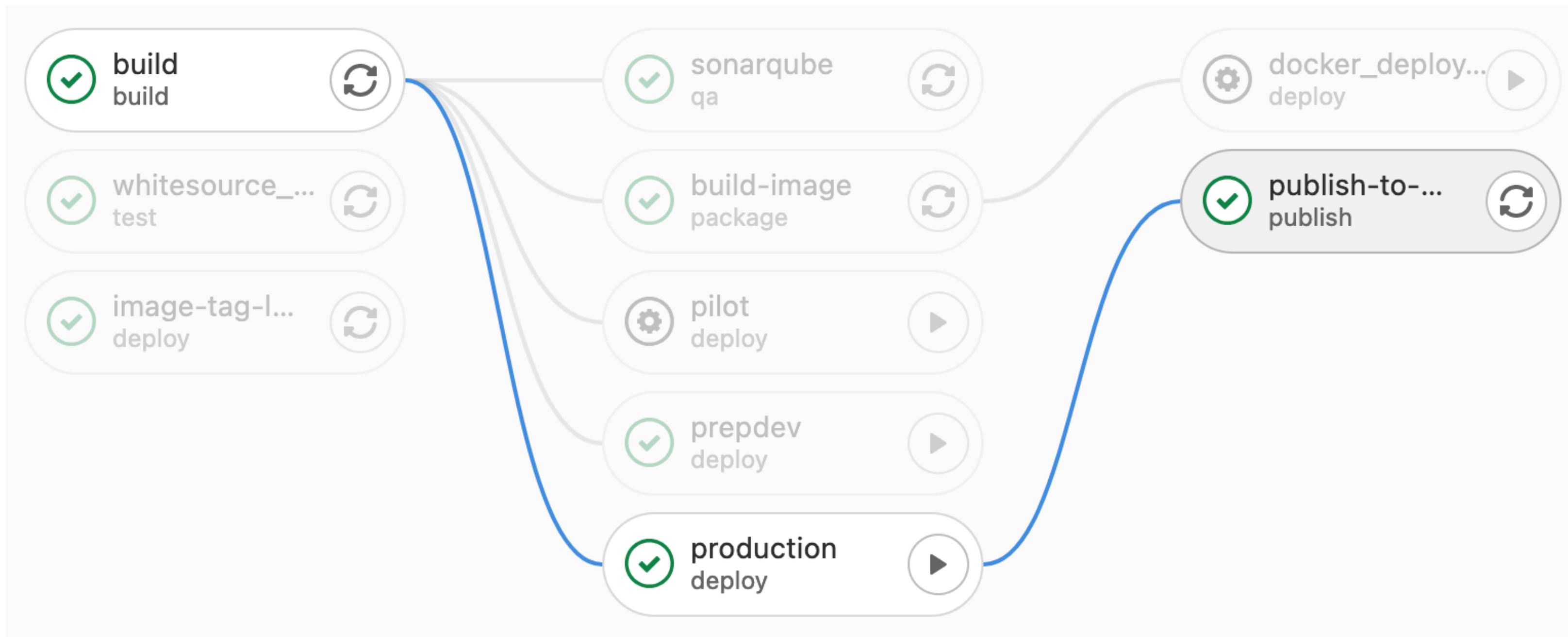
 main

RPKI Team at RIPE NCC committed on 9 Feb

0 parents commit d538704933124e6540df5d18e50c6e407d75588b

- Published at: <https://github.com/RIPE-NCC/rpki-core>

Publish Changes



- Published using: `scripts/publish-source-code`

Publish Changes (2)



RIPE NCC has merged c159ee4 [Browse files](#)

- * Also force version increment in the publication service [7819ccb]
- * Force version increment when CA is affected by a command [40fa690]
- * Produce log files for logstash [73fd4e8]
- * Apply 1 suggestion(s) to 1 file(s) [3b26fd7]
- * Clean up properties [95a29cf]
- * Remove API call with initialization fallback [6b13028]
- * Filter certificate authority type in query [4369bd4]
- * Exclude CAs that already have multiple keys for key rollover [c4b2e0c]
- * Boyscout in AlertService [65ded51]
- * Modify absolute size count from map size of CA => Resources, into accumulated resource sizes [517ebd3]

main

RPKI Team at RIPE NCC committed 5 hours ago 1 parent [f492ec9](#) commit [21dab3df9bfff8e1ae1069301a6efa3de440833](#)

- Published using: scripts/publish-source-code

More Open-Source



- RPKI Trust Anchor software
<https://github.com/RIPE-NCC/rpki-ta-0>
- RPKI Publication Server
<https://github.com/RIPE-NCC/rpki-publication-server>
- RPKI Commons
<https://github.com/RIPE-NCC/rpki-commons>
- NRO Delegated stats
<https://github.com/RIPE-NCC/nro-delegated-stats>
- IRR BGP Stats
<https://github.com/RIPE-NCC/rpki-irr-bgp-stats>

Community Engagement



- What we do in production is transparent
- We are interested in feedback from community members
- How can we make this more valuable to the community?



Questions



Bart Bakker <bbakker@ripe.net>
@bjpbakker