



RIPE NCC
RIPE NETWORK COORDINATION CENTRE

RIPE NCC RPKI Validator 3

Maybe we need a better name ;)



But, why?

- Stability
- Maintainability
- Redundancy
- Memory footprint
- Deployment and updates

Features 1/2



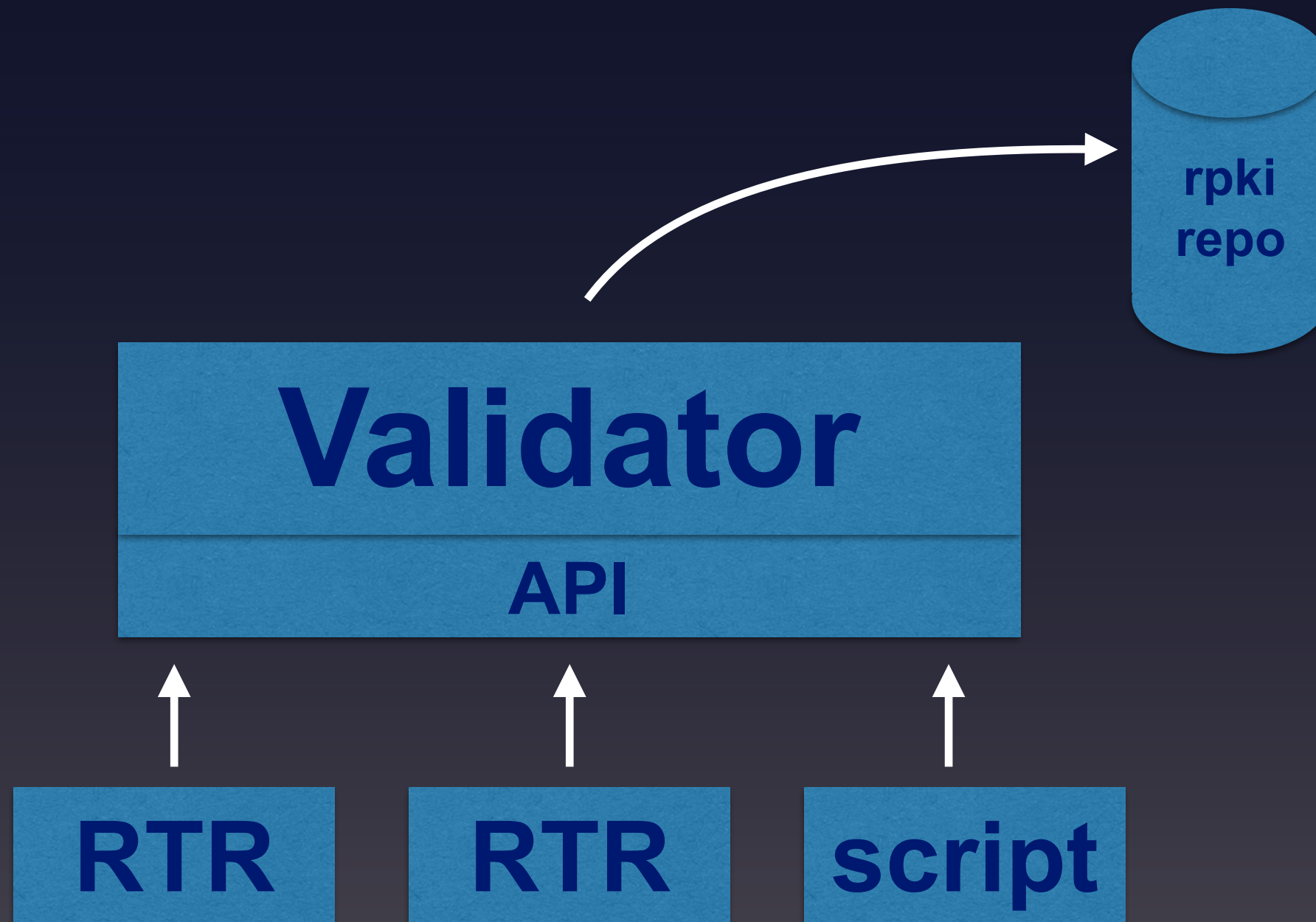
- ROA validation
 - Export compatible with version 2.x
- Router Certificates
 - Supported, but not seen in the wild
- RPKI-RTR version 1
 - Including router certificates
 - Incremental updates

Features 2/2

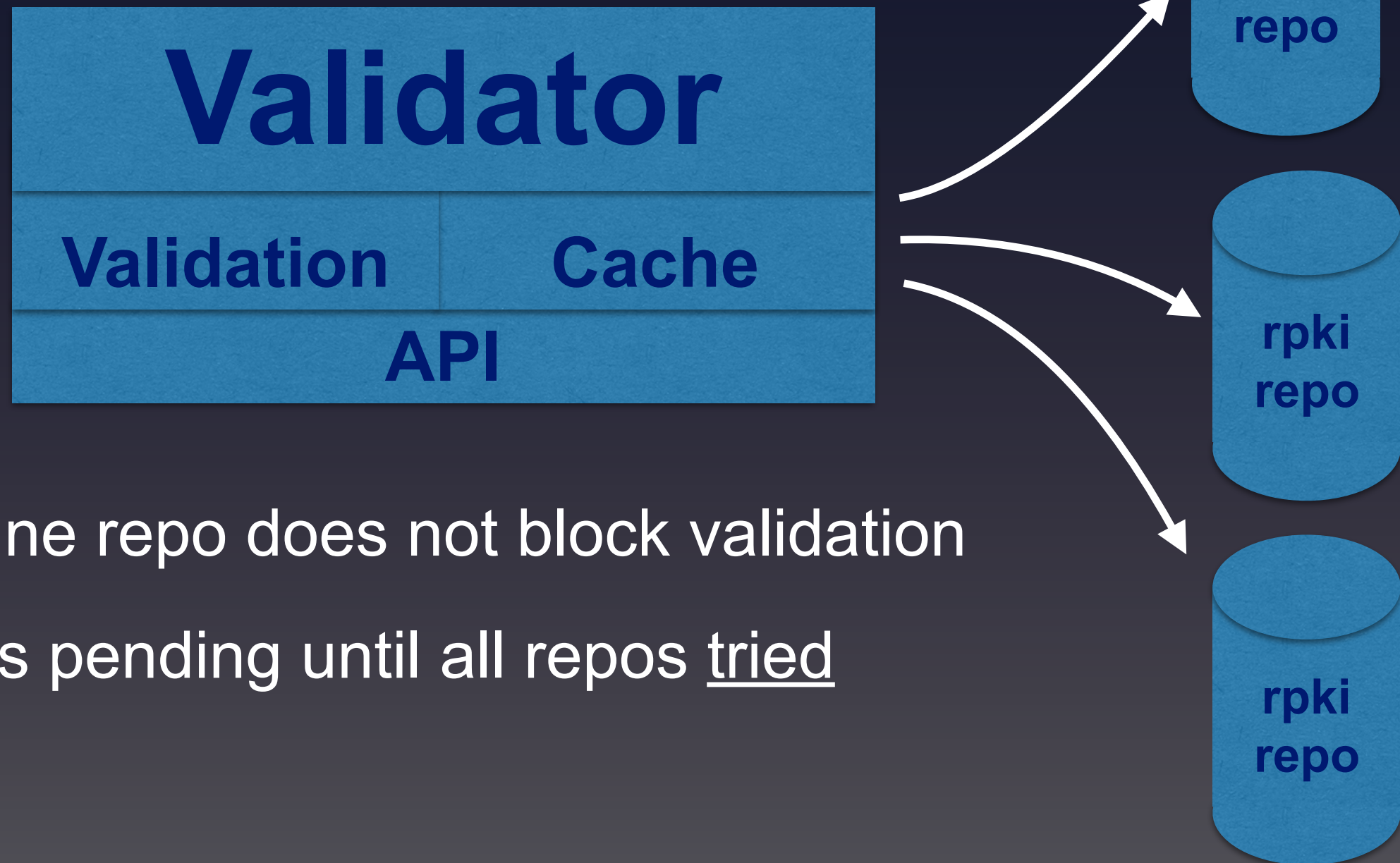


- SLURM (local filters and whitelist)
 - In progress..
- UI
 - If you want secure access, use a proxy
 - Some support for internationalisation
- API
 - Browsable, self-documented, API (swagger)
- CLI
 - No time to implement now, but willing to work with you

Architecture



Validation vs fetching



- ➔ Offline repo does not block validation
- ➔ TA is pending until all repos tried

Separating validation and fetching



[RPKI Validator](#) [Trust Anchors](#) [ROAs](#) [Ignore Filters](#) [BGP Preview](#) [Announcement Preview](#)

Overview for LACNIC RPKI Root

Summary

Trust Anchor could be validated	Yes
Last completed validation	2018-03-20 03:18:44
Processed Items	4069 0 0
Repositories	1 0 0

Validation Issues

No validation problems found

Repositories

Show 10 entries

Search:

URI	Type	Status	Last checked
rsync://repository.lacnic.net/rpki/	RSYNC	DOWNLOADED	Mar 20, 2018, 3:18:39 PM

« « 1 » »

Showing 1 to 1 of 1 entries

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Known issues



- Reporting on pending Trust Anchors
 - Somewhat confusing still, shows objects before TA is done
 - Trust Anchors are pending after restarts
- SLURM (local exceptions)
 - Not finished, will be soon..
- No UI for Trust Anchor management
 - May remain a feature... but will document API usage

Please let us know what you think



GitHub:

<https://github.com/RIPE-NCC/rpki-validator-3>

Please create issues:

- We will fix bugs
- We are careful about features..

Deployment:

- RPM (Centos7)
- Docker
- Generic build
- <your build here>