

### **RPKI Resilience**

### How Trustworthy is our Trust Anchor?

### Problem Statement

- RPKI is becoming a fundamental component in the Internet infrastructure
- An prolonged outage in RPKI can have a severe impact on the operations of the Internet
- Having a resilient RPKI infrastructure is very important







## **Risk Areas We Identified**

- Technical infrastructure (e.g. uptime, redundancy) Operations (e.g. staffing, processes) Trust (e.g. verified by independent third-party)





## Technical Infrastructure

 Our current uptime numbers are very good • RPKI repository: 100% • Core: 99.94% • Downtime only due to scheduled maintenance Updated core systems in 2019



## Operational

- Improve knowledge on the RPKI core by the team Prioritise work that involves RPKI core changes (e.g. TA key-
  - roll)
- Division of knowledge between technical teams Implement DevOps in the RPKI team (merging IT and Software)
  - Development into one team)
- Enhance procedures and processes





### rust

We sign our own Trust Anchor

- Have a third-party assessing our code (focus on the crypto) No third-party assessing if we are doing what we say
- we are doing

vulnerabilities)

Nathalie Trenaman | RIPE79 | 17 October 2019



• We also want to do a security assessment (check for security



# Questions ?

nathalie@ripe.net

