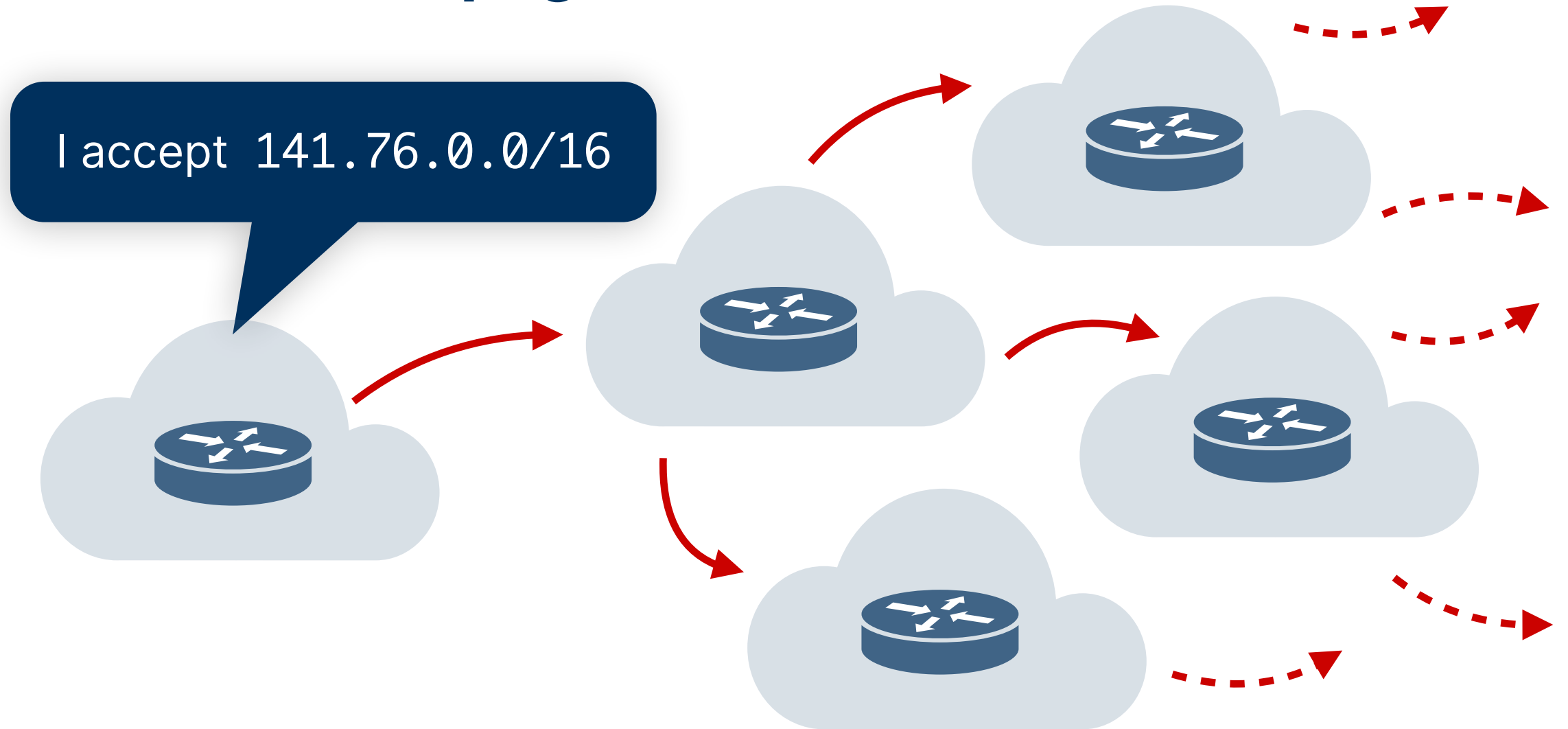


ASPA Support in RTRlib

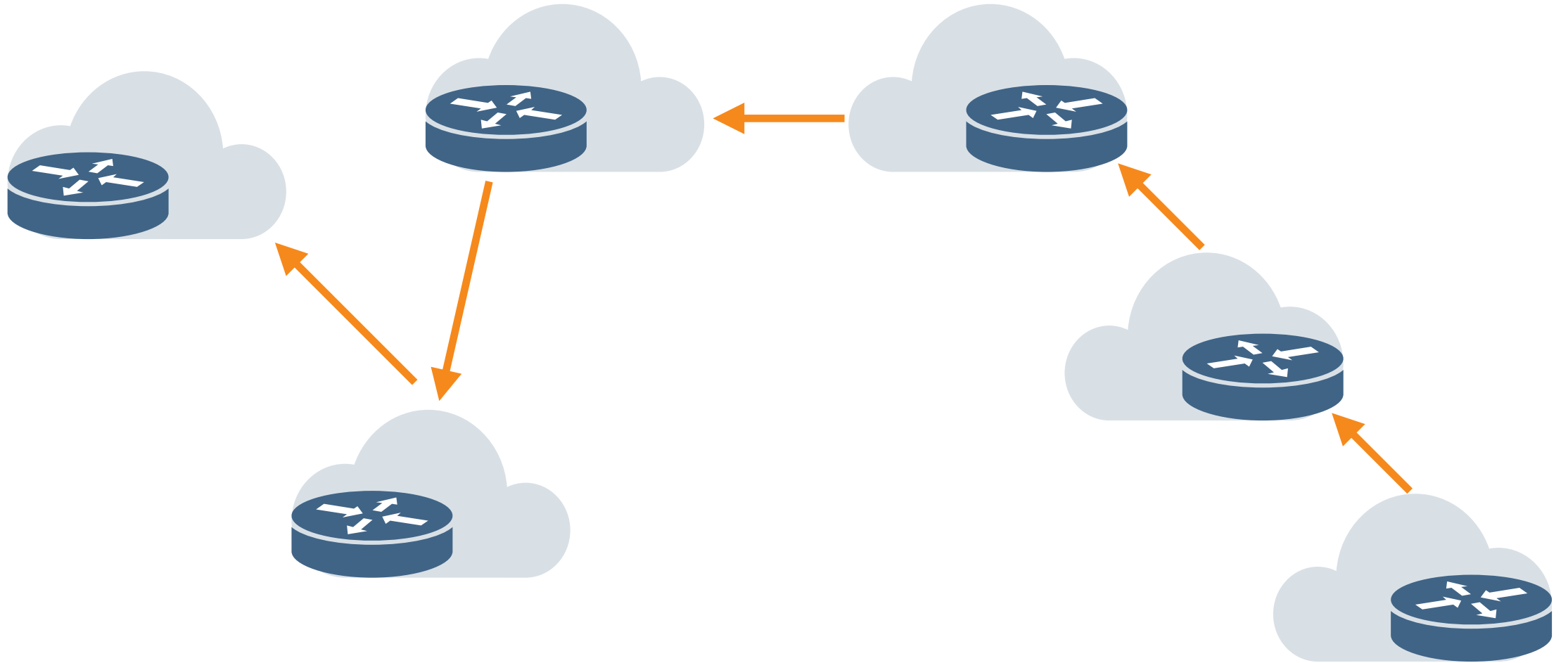
Hackathon IETF 118 , Prague, Nov 5, 2023

Tassilo Tanneberger, Moritz Schulz, Carl Seifert, Tom Harrison, Taiji Kimura
tassilo.tanneberger@tu-dresden.de, {moritz.schulz, carl.seifert1}@mailbox.tu-dresden.de

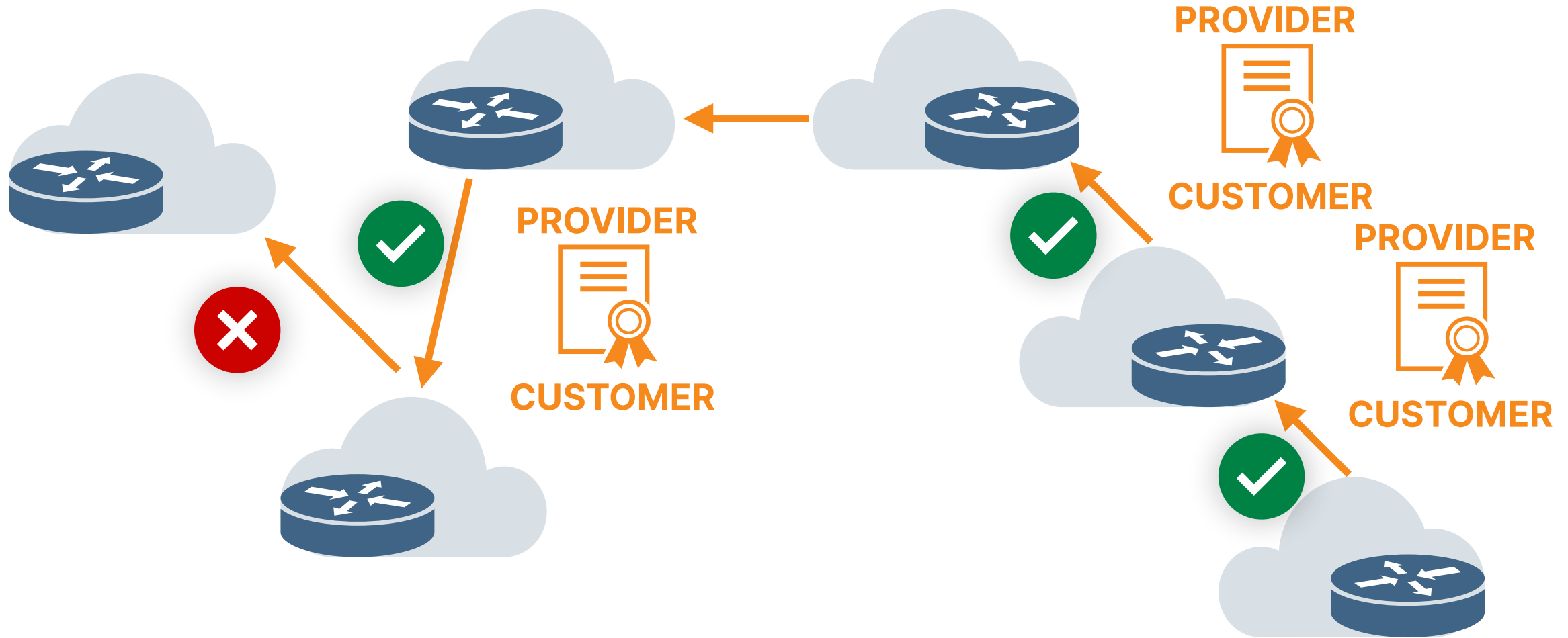
BGP Route Propagation

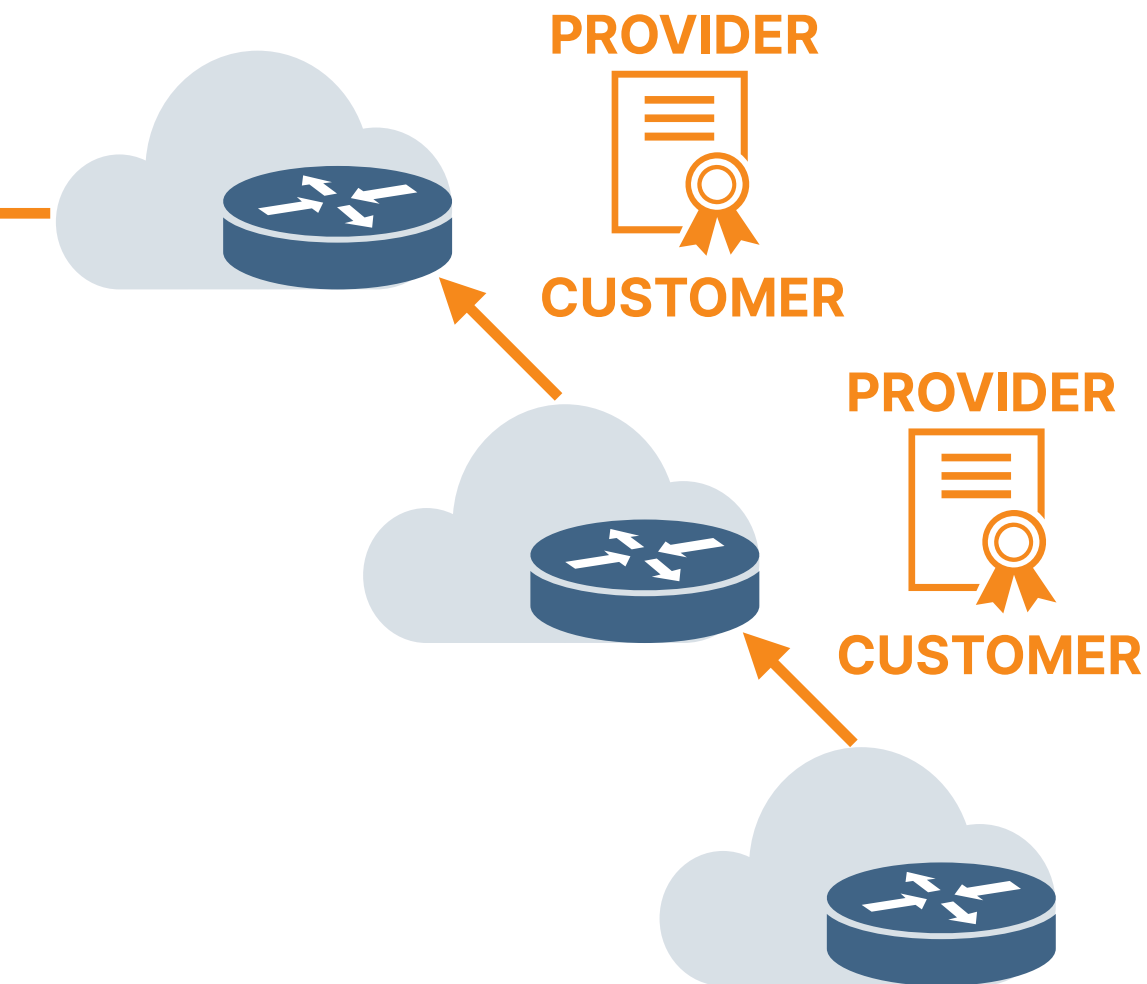


Route Leak Detection & Mitigation



Route Leak Detection & Mitigation

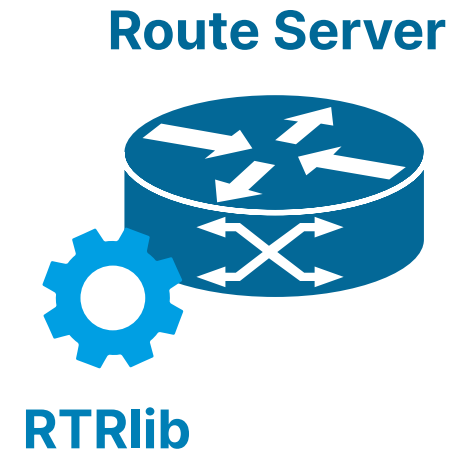




Autonomous System Provider Authorization — ASPA [@IETF in sidrops]

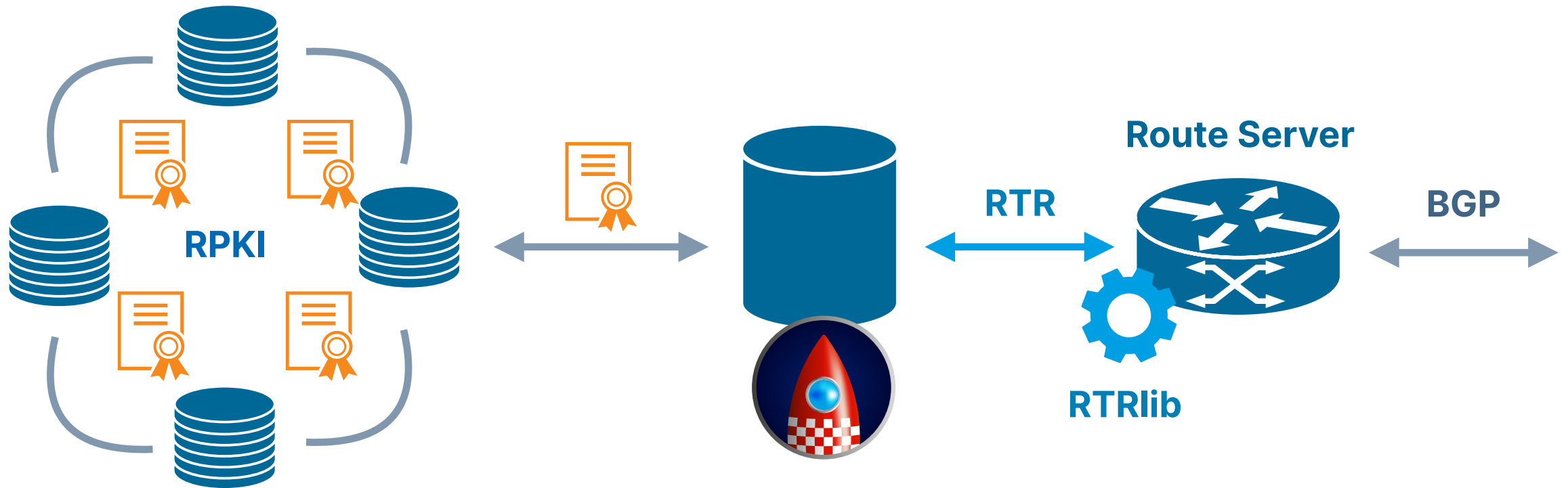
- ASPA records express business relationships between networks ("BGP Roles")
- Records are signed by customer AS and submitted to RPKI infrastructure
- ASPA support on BGP routers
 - Fetch ASPA data from cache servers
 - Validate BGP Announcements based on ASPA data

Hackathon plan



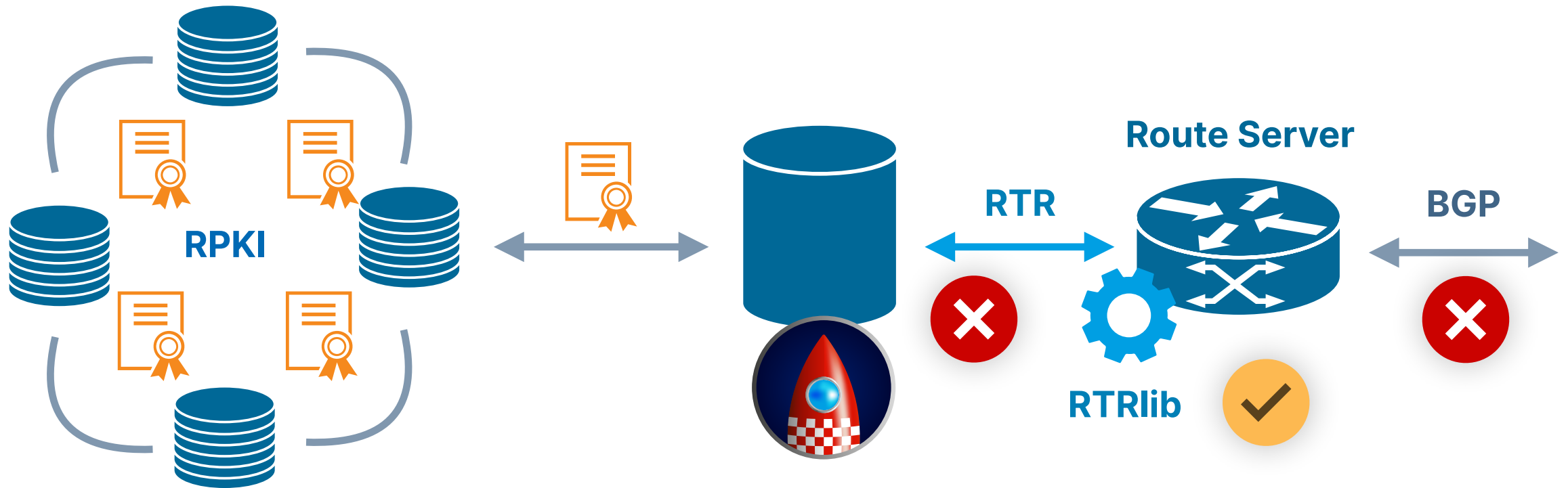
- Support for ASPA in RTRlib

Hackathon plan



- Support for ASPA in RTRlib
- Interop test with cache server + BGP

Hackathon plan and **what we got done**



- Support for ASPA in RTRlib
- ~~Interop test with cache server + BGP~~

What did we learn?

3 paragraphs

6+ hours



... a whole week left to understand

Writing specs well is important ...



Team members

- Tom Harrison
- Taiji Kimura
- Moritz Schulz*
- Carl Seifert*
- Tassilo Tanneberger*

* Participation has been supported by the German Federal Ministry of Education and Research (BMBF) and the Free State of Saxony as part of Germany's Excellence Strategy.



RTRlib: github.com/rtrlib/rtrlib

Our fork: github.com/tanneberger/rtrlib