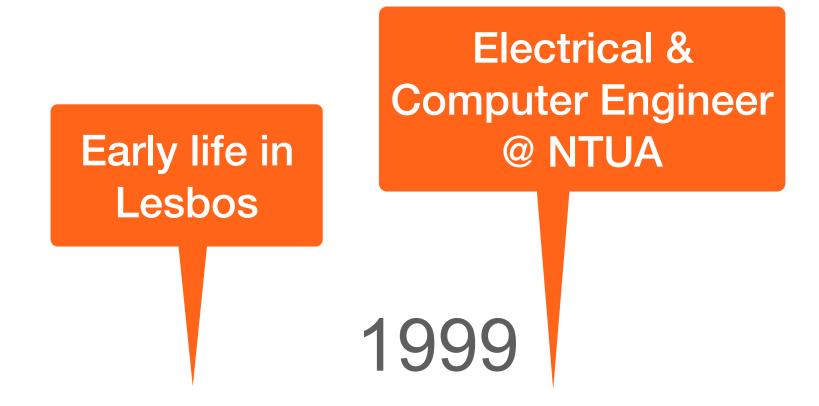


IPv4 Run Out ...and More

Who Am I?





Software Engineer

2004

MSc Business
Informatics
@ UU, The
Netherlands

Whois, LIR Portal & internal apps

2013











2010



Engineer /

Product Owner /

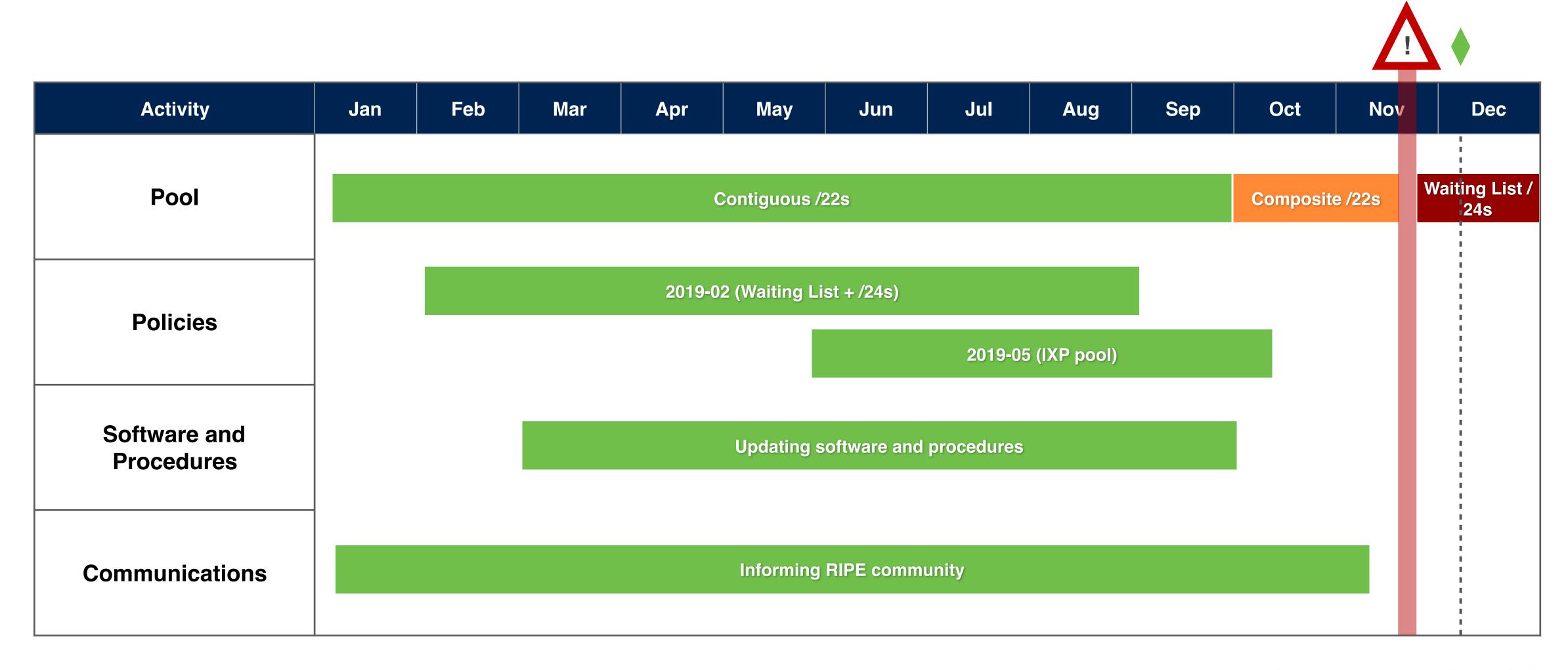
Assistant Manager

25 November 2019





IPv4 Exhaustion Timeline (2019)

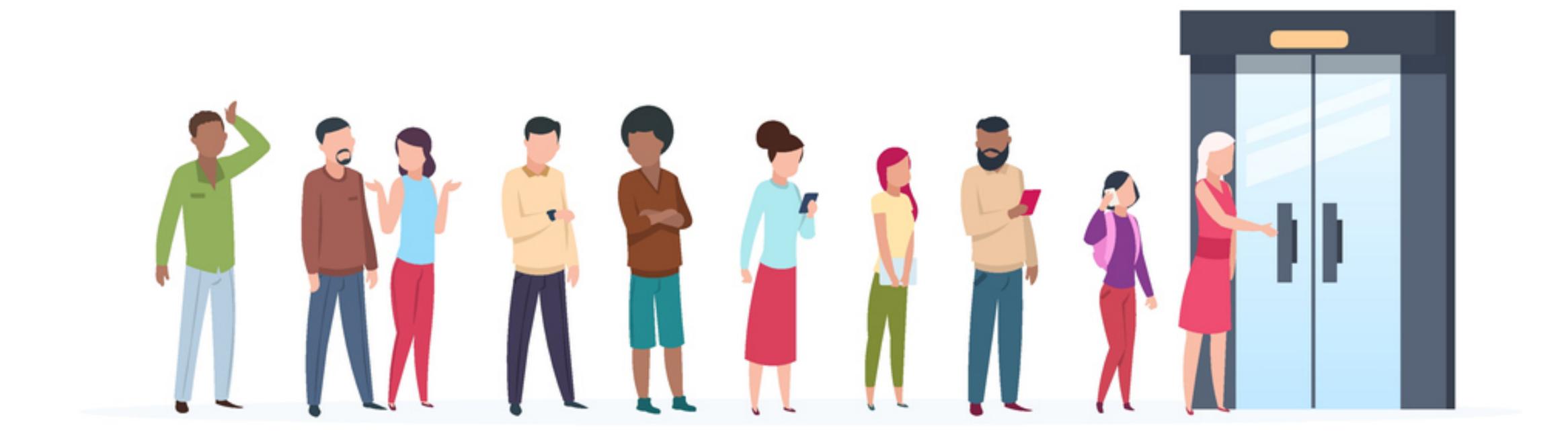




Now, How Do I Get IPv4?

Wait for Recovered Space





IPv4 Waiting List



- 2019-02, "IPv4 Waiting List Implementation"
 - Waiting list after IPv4 pool exhaustion
 - Allocation Size /22 => /24
 - Only for LIRs that never received an IPv4 allocation from the RIPE NCC
 - No IPv4 dust, no sizes < /24

https://www.ripe.net/manage-ips-and-asns/ipv4/getting-ready-for-ipv4-run-out

IPv4 Waiting List

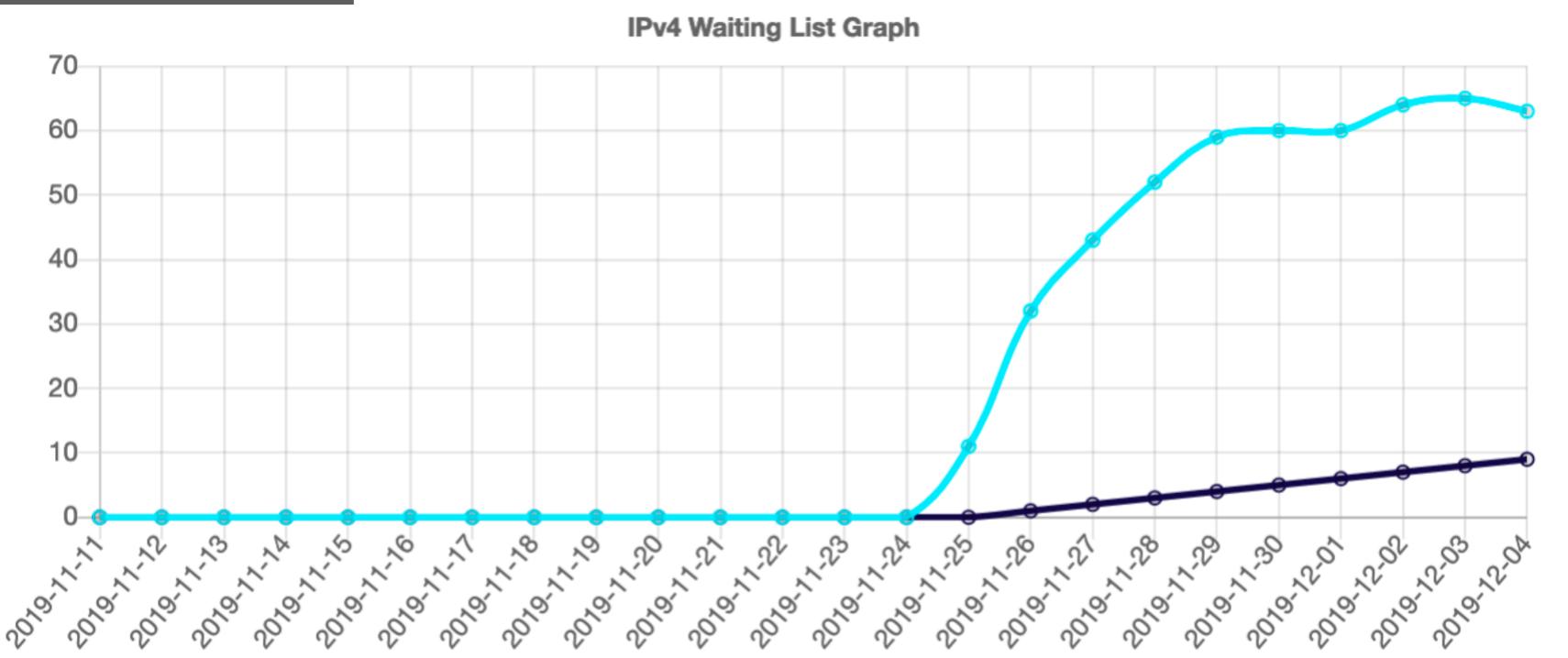


ripe.net

63 LIRs in queue

Placement number

Days that first LIR in queue has been waiting





LIRs in queue Days that first LIR has been waiting

But, I Can't Wait...



- Find an LIR (e.g. ISP) with IP ranges for sale and arrange a transfer
- Country list of LIRs
- Transfers, Mergers & Acquisitions are increasing
- Increased time for due diligence



What Else?

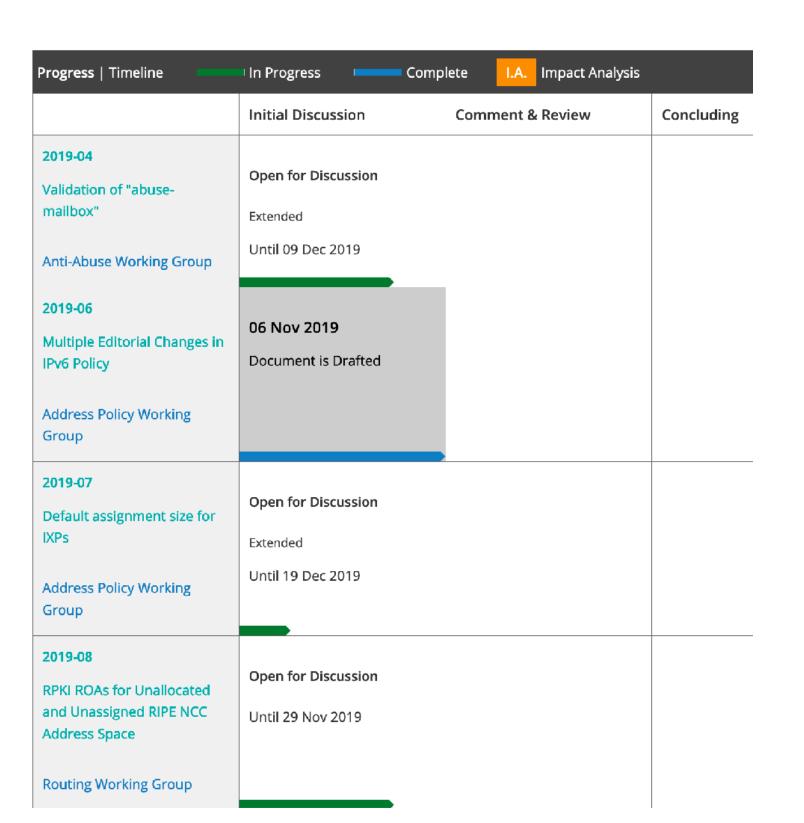




IPv4 for IXPs



- 2019-05, "Revised IPv4 assignment policy for IXPs"
 - Increases the reserved IPv4 pool for IXPs from /16 to /15
 - We will have IXP assignments for a longer period.
- List of policies





RPKI

ROAs for Unallocated Space

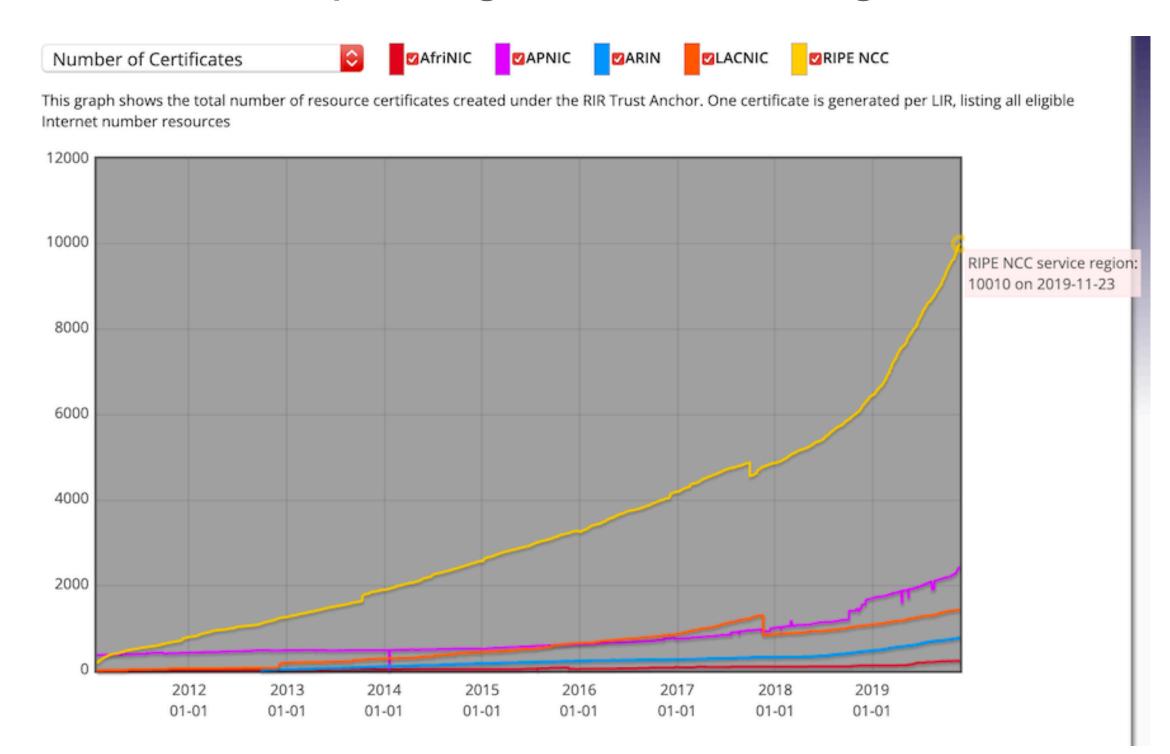


- "2019-08 RPKI ROAs for Unallocated and Unassigned RIPE NCC Address Space" (awaiting decision)
- This proposal aims to instruct the RIPE NCC to create ROAs with origin AS0 for all unallocated and unassigned address space under its control.
- BGP announcements will show as invalid when non allocated space from RIPE NCC is used

RPKI Work



- RPKI Core service: Improve resilience, scalability
- RPKI Validator: Improve stability, and usability
 - deb packages, docker images







RIPE Database

New and Upcoming Features

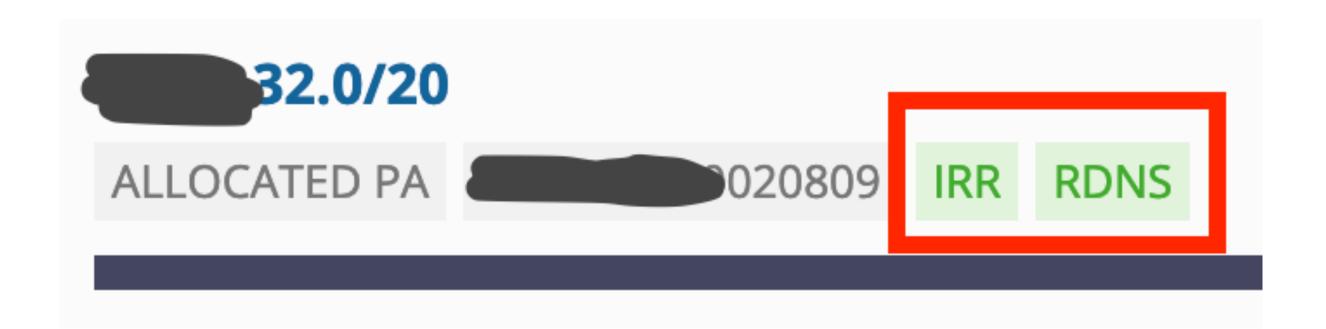


- NWI-8 Sync portal users to RIPE DB default maintainer [Done]
 - https://labs.ripe.net/Members/ed_shryane/synchronising-users-from-the-lir-portal-to-the-default-maintainer-in-the-ripe-database
 - https://ripe79.ripe.net/presentations/119-NWI-8.pdf
- NWI-9 Near real-time mirroring (NRTM) [In progress]
 - Service will be opened to everyone, not just to members
 - New, modern version is under discussion in the db-wg
 - Participate to stir the direction!
- All NWIs (numbered work items)

RIPE Database - My Resources



Related route(6) and domain objects to My Resources [In progress]



Live in Q1 2020





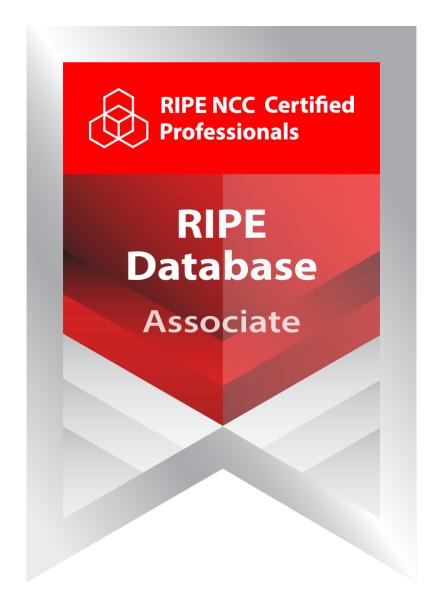
Theodoros Polychniatis | 6 Dec 2019 | GRNOG9

Your Expertise Certified!



- Three levels of expertise
 - Analyst
 - Associate
 - Expert
- Badges are verifiable
- Can be shared on social networks, added to your CV, email signature or website
- Members will receive vouchers to take the exam







How good are you with the RIPE Database?

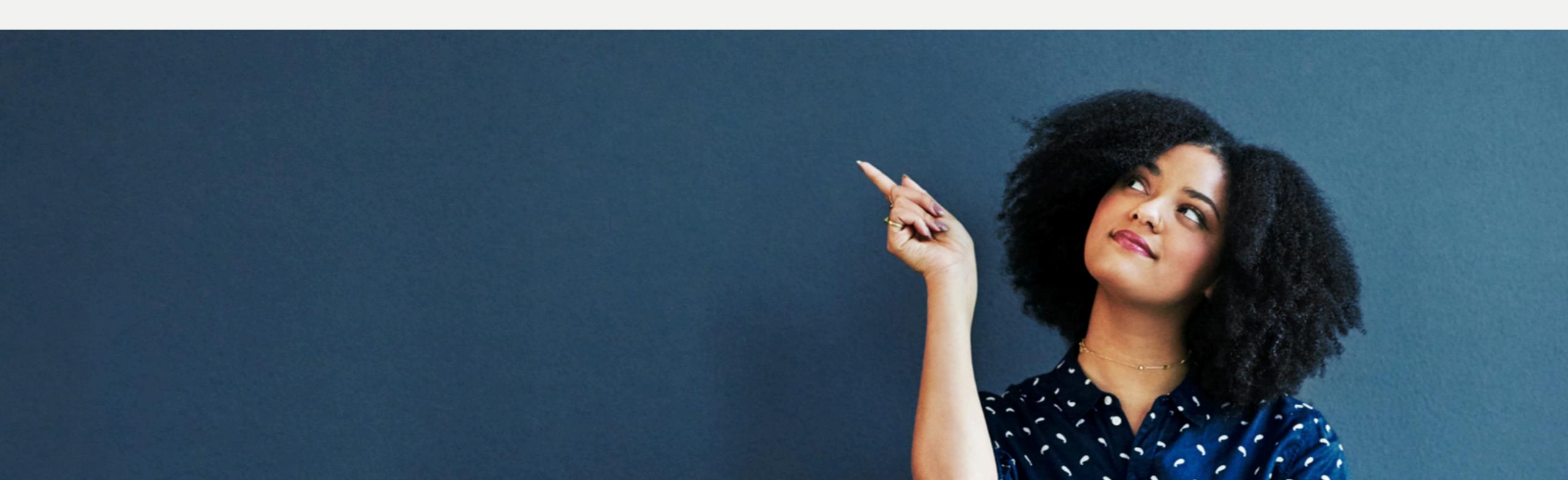




Prove It!



ripe.net/certifiedprofessionals exams@ripe.net





Questions



theodoros.polychniatis@ripe.net