



RIPE NCC
RIPE NETWORK COORDINATION CENTRE

RIPE NCC Hackathons

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Webinar for IoT hackathon | October 2019 | RIPE NCC

Starting with gratitude



- Big thanks to:
 - the organisers: Constanze, Sandoche, Matthias; & Jim (juror)
 - organisers from RIPE NCC: Mir, Adonis, Ulka
 - PixelBar for the party
 - RIPE NCC colleagues behind the scenes: Marty, Menno, Noelle, Alex
- ... and of course ALL OF YOU: THE PARTICIPANTS!!!
- and to your families who will be missing you in the weekend, and who are giving you support to prepare, travel & recover :)

What is a Hackathon?



- Hack-a-thon = hacking marathon

hacker: n.

[originally, someone who makes furniture with an axe]

1. A person who enjoys exploring the details of programmable systems and how to stretch their capabilities, as opposed to most users, who prefer to learn only the minimum necessary. RFC1392, the *Internet Users' Glossary*, usefully amplifies this as: A person who delights in having an intimate understanding of the internal workings of a system, computers and computer networks in particular.

- “Ours” are different from the “usual”; we are:
 - Producing & using FLOSS (free/libre open source software)
 - Cooperative, collaborative, non-competitive
 - Non-commercial: no monetary rewards

Goals for the Hackathons



- Bring together network operators, students, researchers, designers, coders, hackers...
- Combine creative skills
- Get feedback for RIPE NCC
- Contribute useful tools for the community
- Make new connections
- Have fun!
- Documentation: labs.ripe.net/hackathons



RIPE ATLAS HACKATHON:



**MOST FUN I HAD AT RIPE
SINCE CANALS FROZE**

Previous RIPE NCC Hackathons



- RIPE Atlas [DataViz](#) (March 2015, Amsterdam)
- RIPE Atlas [Tools for Operators](#) (October 2015, Bucharest)
- RIPE Atlas [Interfaces](#) (April 2016, Copenhagen)
- [IXP Tools](#) (October 2016, Madrid)
- IXP Tools [Code-Sprint](#) (April 2017, Amsterdam)
- [DNS Measurements](#) (April 2017, Amsterdam)
- Version6 (November 2017, Copenhagen)
- Network Operators Tools (June 2018, Dublin)
- Quantum Internet Hackathon (October 2018, Amsterdam)
- RPKI Deployathon (March 2019, Amsterdam)
- All [code on GitHub](#)

Next 3 events



- 1) The IoT Hackathon
- 2) The Pan-European Quantum Internet Hackathon
 - in 5-6 November
 - multiple 'nodes' at the same time: Delft (the Netherlands), Sarajevo (Bosnia&Herzegovina), Paris (France), Dublin (Ireland), Padua (Italy), Geneva (Switzerland)
- 3) Network Automation in 2020
- Looking for: participants, projects, sponsors, contacts
 - **Grateful to the colleagues who co-organise these events!**



IoT Hackathon Logistics



iot

HACKATHON ROTTERDAM 2019



Goals for the IoT hackathon



- developing IoT technologies
- collaborate, experiment and sample possible IoT solutions
- connect people from diverse communities
- gain hands-on experience and exposure in developing sustainable IoT products, apps and services
- Have fun!

Water-taxi! Party in a hackerspace! Stickers! Club-Mate!



Optional: Movie on Saturday Night



- Documentary
- “*Smart City. In search of the Smart Citizen*”
 - <https://gr1p.org/en/documentary-smart-city-in-search-of-the-smart-citizen/>

“By zooming in on the contrasts and the shared experiences between the [public-private organizations & citizens], the film calls for a broad discussion regarding power and displacement in our digital society.”



Logistics - Location



- RIPE Labs announcement
- Postillion Convention Centre, WTC, Rotterdam
 - <https://ripe79.ripe.net/on-site/meeting-venue/>
 - Room “Van Oldenbarnevelt”
- Public transport:
 - <https://ripe79.ripe.net/attend/getting-there/>
- Parking: “it’s complicated” (ask Vesna)

Logistics - Communication



- WiFi: ripemtg / @ripemeeting
 - <https://ripe79.ripe.net/on-site/tech-info/>
- EtherPad & Mailing List & Slack:
 - <https://pad.riseup.net/p/IoT-hackathon-keep>
- Vesna's phone: +31 6 2125 8191 (voice, SMS, Signal)
- Adonis' phone: nnnnnn

Logistics - Time, Day One



- 8:30 Welcome, coffee, tea
- 9:00 Hackathon begins :
 - - People introductions
 - - Challenges / projects are introduced
- 10:00 – 10:30 tea break & mingling; teams are formed
- 11:00-13:00 Working on projects
- 13:00-14:00 Lunch
- 14:00-17:30 Working on projects
- 17:30 – 18:00 short round of updates
- 18:00 – 19:00 Dinner + T-shirt
- 19:00 – 22:00 (optional) Further work on projects OR A MOVIE?!

Logistics - Time, Day Two



- 09:00-11:00 Working on projects
- 11:00-11:30 short round of updates
- 11:30-13:00 Working on projects
- 13:00-14:00 Lunch
- 14:00-16:00 FINISHING Work on projects (preparing presentations)
- 16:00-16:30 preparing the room for the final presentations; tea break
- 16:30 - 17:15 Team presentations
- 17:15-17:30 Jurors pick “best” projects in each category
- 17:30-18:00 Giving praise & feedback to teams, thanks, and next steps!
- 18:00 leaving for the party
- 18:30 – 19:00 Water-taxi brings us to the PixelBar
- 19:00 – 23:59 PARTY with dinner and dancing with the local hackers

Logistics - food & drinks

- Snacks, tea/coffee, soft-drinks provided all day in the room
 - Special Coffee => Bar (tab: “hackathon”)
 - Special drinks: Club Mate !
 - Lunch = Sandwiches, Soup, Salad
 - Dinner on Saturday: 6PM, restaurant inside the Postillion
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- Sunday = Snacks, drinks, stroopwafels, lunch...
 - 7PM: dinner & party in PixelBar: pixelbar.nl
 - Vierhavensstraat 56 , Keilewerf 1



Powered by Stroopwafels!



Logistic - goals and process



- Goal: working prototype for your project
- Form teams of 3-6 people
 - take one of the available desks
 - plan your work on the project; consider available time!
 - divide the tasks into modules that can be parallelised
- Review/standup: Saturday 17:30PM, Sunday 11AM
- Upload code to GitHub (or other public repo)
- Prepare final presentation / demo
 - not longer than 5 minutes! starting at 16:30PM Sunday!

Reminder..



- Choose interdisciplinary team members
- Choose a **name** for the team and/or project
- Choose one (or more) spokesperson(s)
 - for the standup / review, for the final presentation
- Keep our space clean!
 - combining food, drinks & hacking is at own risk :)

Best Behaviour



- Cooperation & Team-Work
 - form the team of most diverse people possible
 - get to know each other; be constructive; cooperate
 - the goal is to contribute, not to compete nor to win
 - unconference motto: “vote with your feet”
- Code of Conduct
 - be tolerant & respectful; encourage exchange of ideas
 - do NOT be demeaning, intimidating or harming
 - if you feel hurt or offended, speak to organisers

Continuity is a Challenge



- Participants* can subscribe to the mailing list
 - hackathon-list@lists.ripe.net
- Community (and RIPE NCC) can
 - use the tools created during the hackathons
 - contribute further code improvements on [GitHub](#)
- You can keep informed on RIPE Labs: Hackathons Reports
 - labs.ripe.net/hackathons
 - [Calendar](#)
- Contact: BECHA@ripe.net , mir@ripe.net, labs@ripe.net



RIPE NCC HACKATHONS

