



RIPE NCC
RIPE NETWORK COORDINATION CENTRE

RIPE NCC Hackathon Introduction

Vesna Manojlovic

Starting with gratitude

- Big thanks to:
 - all the co-organisers & sponsors
- ... and of course ALL OF YOU:
THE PARTICIPANTS!!!
- and to your families who are giving you support to prepare, work, have fun, 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

General Goals for Our Hackathons



- Since 2014:
 - Bringing together network operators, students, researchers, designers, software developers hackers...
 - Combining creative skills
 - Getting feedback about services
 - Contributing useful tools for the community
 - Making new connections
 - Having fun!
- <https://labs.ripe.net/author/becha/hackathons-are-awesome/>
- Aligned with Strategic Goals:
 - *“Support the innovation and evolution of the Internet”*
 - *“Support an open, inclusive & engaged RIPE Community”*
 - *“Be a centre of excellence for data, measurements and tools that provide insight on the Internet and its operations.”*
 - *“Increase adoption of routing security best practices”*

Cooperation, not Competition!



- We will showcase and celebrate all achievements during the closing session
- Several projects will be awarded symbolic prizes, in the categories of
 - Most Innovative Solution
 - Best Team Work
 - Most Complete Presentation'
- All results will be promoted at next events& at RIPE Labs



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)
- (first) Quantum Internet Hackathon (October 2018, Amsterdam)
- RPKI Deployathon (March 2019, Amsterdam)
- IoT Hackathon (October 2019, Rotterdam)
- Pan-European Quantum Internet Hackathon (2019)
 - <https://labs.ripe.net/author/becha/results-of-the-pan-european-quantum-internet-hackathon/>
- Virtual Hackathon (March - May 2020)
 - <https://labs.ripe.net/author/becha/report-from-the-first-virtual-ripe-ncc-hackathon/>
- RIPE Atlas SW Probes Deployathon (2020)
 - <https://labs.ripe.net/author/becha/report-from-the-ripe-atlas-software-probes-deployathon/>
- Quantum Internet Hackathon 2022
 - <https://labs.ripe.net/author/anastasiya-pak/your-quantum-internet-hackathon-report-for-2022/>
- DNS Hackathon 2023
 - <https://labs.ripe.net/author/becha/connected-to-port-53-a-report-from-the-dns-hackathon-2023/>



Hackathon Logistics

Powered by Stroopwafels!



Logistics - What To Bring



- Bring your own:
 - power plugs (European / or converter)
 - charger for your laptop & phone
 - extension cord (if you have many devices)
- Bring to share:
 - stickers for the “stickers exchange”!
 - something sweet from your country (optional!)



Logistics - Agenda: Day One



- **09:00-10:00** Registration, Logistics, Goals
- 10:00-11:00 introductions of people & projects
 - 11:00 - 11:30 form teams
- 11:30-13:00 Hacking starts
- **13:00-14:00 Lunch**
- 14:00-18:30 Hacking continues
- 18:30-**19:00** Wrap up / Stand-up:
 - Retrospective / review of progress / feedback / wishes for the next day
- 19:00-20:00 Travel to Social Venue
- 20:00-23:00 Dinner
 - early-ish to bed!

Logistics - Agenda: Day Two



- **09:00-12:00** Hacking continues
- **12:00-13:00** Lunch
- **13:00-16:00** Hacking finalizes & Presentation preparations
- **16:00-16:30** Project presentations
- **16:30-17:00** Awards
- evening: Hackerspace visit (optional?!)

Logistics - Location



- Venue Address
- How to get there using public transport
- Floor Plan

Logistics - food & drinks



- All day in the room:
 - Snacks, tea/coffee, soft-drinks
- Lunch: provided
- Dinner Day One: Provided
- Dinner Day Two
 - mostly - provided / or party / or pizza!

☒ **QUESTION: Special Dietary Needs?!?**

In the foyer of your meeting you can enjoy a fresh cup of bean coffee and a variety of sweet treats.

During your meeting you can enjoy unlimited coffee, tea and flavoured waters. In addition, there is a wide range of sweet and healthy delicacies available. Think of heavenly mini chocolate muffins, superfood yogurt shots, coconut slices, homemade cheesecake and banana bread. We also offer fresh hand fruit during the day.

A good lunch gives back energy and offers a good moment for your guests to enjoy and catch up with each other at the same time. In Foyer 2.2 your guests can enjoy an extensive luxury lunch. From various buffets we serve a variety of tasty dishes such as daily fresh salads, yogurt with various toppings, sandwiches, wraps and a varying warm item. At lunch we serve milk, various organic juices and seasonal flavoured water.

Fresh, honest and nutritious, after lunch your guests can get back to work with renewed energy!

☒ **QUESTION: ARE YOU JOINING??**

Supporting Roles



- Facilitators : in person
- Facilitators : on-line
- PC / Jurors
- Logistics / Admin (at home)

Communication Channels



- Before, During & After
 - Chat Room
 - LINK
 - Document Store:
 - GitHub
 - Wiki
 - Etherpad
- Locally:
 - WiFi: network name & password



Hackathon Content

Team Work



- 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 :)

Content - Practical 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: DAY ONE, afternoon
- Upload code to GitHub
- Prepare final presentation / demo
 - not longer then 5 minutes!

Presentation : 5 slides, 5 minutes!



- What
 - project name
 - results (document, code, visuals?)
- Why
 - what did you want to achieve / solve
- How
 - what did you learn? what went well?
- Who
 - team members
- Where next?

Content - Criteria & Awards



- Jury will review the results & presentations, and award prizes for:
 - "Most Innovative Solution"
 - "Best Team Work"
 - "Most Complete Presentation"
- Prizes are symbolic, and mostly sweet
- Summary of results will be presented at DNS-WG @ RIPE86
 - if authors are present, some projects might be presented there too

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
- 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
 - respect wishes for privacy while taking photos (**GDPR!**)

Content



Available Data Sources

- RIPE Atlas
 - data
 - credits

Projects Proposals

- LINK / URL

Continuity is Crucial



- Paradox: Most hackathon work is done **outside** hackathons!
 - Results will be published on GitHub, to make it available for the community
 - Previous hackathon results are also on GitHub
 - ... there will be more hackathons & other events (IETF = 3 times/year!)
- In the meantime
 - You can subscribe to the mailing list: hackathon-list@lists.ripe.net
 - You can contribute further code improvements on [GitHub](#)
 - You can keep informed on RIPE Labs: labs.ripe.net/hackathons /
- Join us at other events

Upcoming Events



- HERE...
 - Calendar
- RIPE NCC Supporting newcomers through:
 - Academic Cooperation: ripe.net/raci
 - Fellowship programme: ripe.net/fellowship



Questions

