



RIPE NCC Hackathons & Community Building

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June 2018 | Network Operators Tools Hackathon | Dublin



Starting with GRATITUDE!

- Big thanks to:
 - ZPE Systems, ThousandEyes & Facebook - our sponsors!
 - iNOG - local support!
 - Cristian (Redbit Networks) & Donal (PanSift) & Lorcan
 - DoSpace - our location! & Graham, personally, for my visa!
 - RIPE NCC colleagues, in the office & here
 - ... and of course ALL OF THE PARTICIPANTS!!!
 - and to your families who are missing you this weekend, and gave you support to prepare, travel & recover :)



RIPE NCC Hackathons

- Hack-a-thon = hacking marathon
 - intensive coding on FLOSS (free and open source software)

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.

- Cooperative, collaborative, non-competitive
- Non-commercial: no monetary rewards



Goals for the hackathon

- bring together operators, researchers, designers, coders, hackers
- combine creative skills
- & get feedback for RIPE NCC
- contribute useful tools for operators
- make new connections
- have fun!





Powered by Stroopwafels!





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: “walk 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



Logistics - Communication

- WiFi:
 - SSID: "hackdub18"
- EtherPad:
 - <https://pad.riseup.net/p/dublin-hackathon>
- Mailing List
 - <http://lists.ripe.net/mailman/listinfo/net-op-tools-hackathon>
- Vesna's phone: [REDACTED] (voice, SMS, Signal)
- Cristian's phone: [REDACTED] (voice, SMS, Signal)



Logistics - Time

- Saturday 23rd June - 9am: start!
 - Introductions, project pitches, team building
 - 11am => hacking!
 - ~ 12:30 pm: lunch break
 - ~ 5:30 pm: dinner break
 - ~ 8 pm: “stand=up” = review of projects
 - - Space open until 11pm for more after-dinner hacking!
- Sunday 24th June - 9am hackathon continues!
 - 11 am: “stand=up” = review of projects
 - ~ 5pm project presentations (event closes at 7pm)
- 8 pm = Celebratory Dinner & Drinks



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 8PM, Sunday 11AM
- Upload code to GitHub (or other public repo)
- Prepare final presentation / demo
 - not longer than 5 minutes! starting at 5PM Sunday!



Reminder..

- 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!
 - please help by cleaning after yourself as you go
 - at the end of Sunday: final cleanup:
 - many hands make light(er) work...



Logistics - food & drinks - Saturday

- Snacks, Tea, Soft-drinks provided all day
- Coffee = Barista!
- Lunch = Sandwiches, Soup, Salad
- Dinner around 5pm = pizza + local craft beers and non-alcoholic drinks to wind down

- Sunday = breakfast, snacks & lunch, +
- 8PM: dinner in HQ
- 1 Hanover Quay / Grand Canal Docks / Dublin 2
- <https://www.hghanoverquay.ie>



Logistics - food & drinks - Sunday

- 30 x mini beef burgers
- 20 x mini veggie burgers
- 30x vegetable tempura
- 20x spicy wings
- 10x korean wings
- 20 x calamari
- 30 x avo bruschetta
- 20x smoked salmon
- 5x meat platters
- 10x cheese platters
- 20x house fries
- 10x sweet potato wedges
- **DRINKS**
- 30 Euro per person for drinks
- Including: beers, wine, non-alcoholic drinks
- Excluding: spirits, cocktails, bottles of wine of 40 Euros & more



Beef Slider, mini beef patty, with lettuce & tomato on a mini bun (1pcs) | 4.95

Serrano Ham Croquetas (4pcs) | 5.95

Glen Valley Chicken Wings, choice of Hot & Spicy or Korean (5pcs) | 5.95

Tuna & Lime Tostadas, taco shell crisps, yellowfin tuna, pineapple & cucumber salsa, chipotle mayo (GF) (2pcs) | 4.95

Calamari (4pcs) | 5.95

Smoked Salmon, cream cheese & dill on brown bread crostinis (2pcs) | 4.95

Mixed Vegetable Tempura, sweet chilli dipping sauce (Vegan) (5pcs) | 4.95

Avocado Bruschetta, tomato & red onion salsa on ciabatta (Vegan) (1pcs) | 4.50

Irish Cheese Platter, served with grapes & apple slices, chutney and oat crackers | 25

Charcuterie Platter | 25

House Fries (DF) | 4

End of hackathon: Give us feedback!



- What did you like?
 - coffee? stickers? T-shirts?
 - VMs?
 - communications channels?
 - stroopwafels??
- What could have been better?
 - we'd like to improve for the next time!
- BECHA@ripe.net



Moar Hackathons!

- **IETF 102 Hackathon**
- 14-15 July 2018, Montreal, Canada
- <https://www.ietf.org/how/runningcode/hackathons/102-hackathon/>
- **SIGCOM2018 Hackathon**
- 25 August 2018
- Budapest, Hungary
- <https://conferences.sigcomm.org/sigcomm/2018/hackathon.html>
- **Anti-DDoS hackathon**
- 13-14 September
- Den Hague, NL-IX
- <https://www.neutralpeeringdays.net/#Hackathon>
- **Quantum Internet Hackathon**
- 13 - 14 October 2018, in Amsterdam, before RIPE77, with TU Delft
- **"Learning & Student Analytics & AI" Hackathon**
- 22-23 October 2018, Amsterdam
- <http://lsac2018.org/#hackathon>
- **MEF18 LSO Hackathon**
- 29 - 31 October 2018, Los Angeles, USA
- <https://www.mef18event.com/index.php/mef18-lso-hackathon>
- **IETF 103 Hackathon**
- 3-4 November 2018, Bangkok, Thailand



RIPE Meetings



RIPE Meetings

- Twice a year, whole week long
- Working groups, plenary sessions, tutorials
 - Remote participation possible
 - tickets: week (€ 350), day (€ 125), student/week (€ 50)
 - new LIRs get two “gratis” tickets
- RIPE 76: Marseille, France: 14-18 May, 2018
 - <https://ripe76.ripe.net>
- RIPE 77: Amsterdam: 15-19 October 2018
 - <https://www.ripe.net/participate/meetings>



RACI

RIPE Academic Cooperation Initiative

- Students and researchers:
 - Present your Internet-related research at RIPE Meetings
 - Complimentary tickets, travel and accommodation
 - Topics: network measurement and analysis, **security**, IPv6 deployment, BGP routing, Internet governance, peering and interconnectivity, IoT
- ripe.net/raci



RIPE Fellowship

- Get support to attend RIPE meeting
 - Removing the cost barrier
 - Increasing diversity
 - <https://labs.ripe.net/Members/agowland/apply-now-for-new-ripe-fellowship-programme>
- Five fellows/fellow-esses per meeting
 - Complimentary tickets, travel and accommodation provided
- Apply from February 2018
 - <https://www.ripe.net/participate/ripe/ripe-fellowship>



RIPE Diversity Task Force

- Diversity is important!
- Started a Task Force to coordinate the efforts
 - <https://www.ripe.net/participate/ripe/tf/ripe-diversity-task-force>
- Mailing list:
 - <https://lists.ripe.net/mailman/listinfo/diversity>
- Articles:
 - <https://labs.ripe.net/diversity>



Other Meetings



Regional Meetings

- Once a year:
- MENOG
- ENOG
- SEE
- [https://www.ripe.net/participate/meetings/
regional-meetings](https://www.ripe.net/participate/meetings/regional-meetings)
- Open to everyone
- Also: mailing lists for regional cooperations



Training courses

- Six different types
- Every week, all over RIPE NCC region
 - LIRs/members only
 - One day, or two day, or with a lab / workshop
- On-line options: Academy, Webinars, Tutorials
 - open to everyone
- ripe.net/training / training@ripe.net



Community Support



NOG Support

- (country) Network Operators Groups
 - e.g. SwiNOG, iNOG, NLNOG, UKNOF, RSNOG, DENOG...
- labs.ripe.net/nogs
- An overview of events, a calendar, and a map
- RIPE NCC has funding for NOG meetings
 - supporting mostly new or smaller NOGs
- Please ask if you want us to send a speaker



Community Projects Fund

- RIPE NCC is financially supporting projects that benefit Internet community (250,000 Euro)
- Info: <https://www.ripe.net/support/cpf/ripe-ncc-community-projects-fund>
- Deadline: 26 June





Previous RIPE NCC Hackathons

- [labs.ripe.net/hackathons](#)
 - RIPE Atlas DataViz (March 2015)
 - RIPE Atlas Tools for Operators (October 2015)
 - RIPE Atlas Interfaces (April 2016)
 - IXP Tools (October 2016)
 - IXP Tools Code-Sprint (April 2017)
 - DNS Measurements (April 2017)
 - Version6 (November 2017)
- All [code on GitHub](#)



Future Participation in Hackathons

- Use the software and tools
 - Share your use cases and success stories
- Modify the code, contribute improvements
 - All the code is on [GitHub](#)
- Early call for 2019
 - Two events planned: Spring and Autumn
 - Be a host / local partner / juror / sponsor
 - Be a participant again :)
- Watch this page: <https://labs.ripe.net/hackathons>



RIPE Labs

INNOVATIVE INTERNET TOOLS AND IDEAS

SHARE EXPERIENCE | SHOWCASE TOOLS | PRESENT RESEARCH

- Publish your research or use case
- Reach out to RIPE Community
- Read about latest analysis or conferences
- labs.ripe.net



RIPE Atlas

RIPE Atlas – Wikipedia, the free encyclopedia

W https://en.wikipedia.org/wiki/RIPE_Atlas

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RIPE Atlas

From Wikipedia, the free encyclopedia

RIPE Atlas is a global, open, distributed Internet measurement platform, consisting of thousands of measurement devices that measure Internet connectivity in real time.

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Most Popular Features

- Six types of measurements: ping, traceroute, DNS, SSL/TLS, NTP and HTTP (to anchors)
- APIs to start measurements and get results
- Powerful and informative visualisations
- CLI tools
- Streaming data: real-time results
- “Time Travel”, LatencyMON, DomainMON, TraceMON
- Roadmap shows what's completed and coming

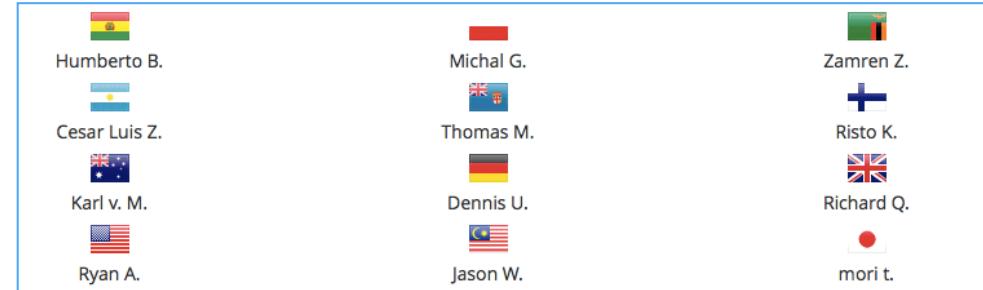
RIPE Atlas Community Participation



- 19,000 probes given to **volunteers / hosts**

- out of that, 10,000+ active

- 36,000 **users**



- 311 anchors hosted by **operators**
- On average five **sponsors** every year
- 400+ **ambassadors**, at many conferences
 - <https://atlas.ripe.net/landing/get-involved/>
 - <https://atlas.ripe.net/get-involved/community/>



Get Involved!

- Use RIPE Atlas for your operations: monitoring, troubleshooting, measuring
- Do scientific research
- Participate in a webinar
- Add multi-lingual content
- Become an ambassador or a sponsor
- Host a RIPE Atlas anchor
- Place a probe in a new exotic location



More info & contacting RIPE Atlas

- <https://atlas.ripe.net>
- Use cases and updates: <https://labs.ripe.net/atlas>
- Mailing list for active users:
 - ripe-atlas@ripe.net
 - <https://www.ripe.net/participate/mail/forum/ripe-atlas>
- Questions: atlas@ripe.net
- Twitter: [@RIPE_Atlas](https://twitter.com/RIPE_Atlas) and #RIPEAtlas