

IETF Hackathon



IETF 100
November 11-12
Singapore

Welcome

- First Hackathon?
- First time at an IETF event?
- Not attending IETF meeting?

Goals

- Running Code ([RFC 6982](#))
- Open Source
- Speed and Relevance of Standards
- Collaborate and Learn
- Have Fun!

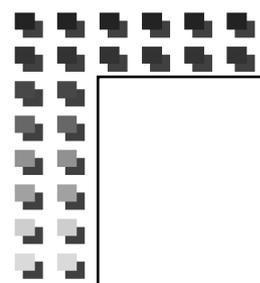
Cenk Gündoğan, RIOT maintainer – *The IETF Hackathon provides an **excellent opportunity to connect** with hackers around the world and share experiences about their implementations as well as interoperability.*

Hariharan Ananthakrishnan, Packet Design – *My personal thanks for helping out in the IETF Hackathon and plugging me to right group to contribute. I should say I had **good time hacking as a first time IETFer**.*

Sunil Vallamkonda, F5 – *I got to learn a lot and meet talented folks. I do not know why such an event never happened till 2015, it **should have part of IETF since day one**.*

Vladimir Vassilev, TransPacket, **travelled from Oslo to Seoul just for hackathon** - *You get all these people with passion for what they are doing trying to accomplish something in these two days that will **make the world better in a very practical way**.*

Nathan Egge, Mozilla – *We had Cisco committing to Daala and Mozilla committing to Thor, which truly shows the collaborative spirit of the IETF. Having a hackathon is an **excellent way for new ideas to be tested out in running code** and NETVC will be back for the IETF 94hackathon in Yokohama.*



Note Well

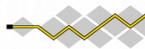
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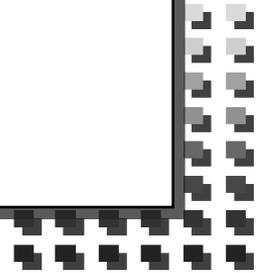
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I E T F



IPR and Code Contribution Guideline

- Hackathon participants free to work on any code
- Rules regarding that code are what each participant's organization and/or open source project says they are
- The code itself is NOT an IETF contribution
- Discussions, presentations, and demos done as part of the hackathon are the same type of IETF contributions as those made in working groups; therefore, the usual IETF copyright and/or IPR disclosure rules apply

Agenda - Saturday

- 08:00: Room open for setup of posters at tables by champions
- 09:00: Room open for all - Pastries and coffee provided
- 09:30: Hackathon kickoff
- 09:45: Form Teams
- 12:30: Lunch provided
- 15:30: Afternoon break - Snacks provided
- 19:00: Dinner provided
- 22:00: Room closes and is locked

Agenda - Sunday



- 09:00: Room opens - Pastries and coffee provided
- 12:30: Lunch provided
- 13:30: **Hacking stops, prepare brief presentation of project**
- 14:00: Project presentation to other participants and judges
- 15:00: Recap and suggestions for improvements
- 15:30: Awards presented, **praise and thanks given**
- 16:00: Hackathon ends
- 17:00: Tear down complete

Champions

- Anyone can volunteer to “champion” a project
- Before the Hackathon
 - Update [hackathon wiki](#) with details about project
 - Share ideas and preparation materials via the [hackathon list](#)
 - Recruit participants from working groups, open source projects, etc.
- At the Hackathon
 - Create and display poster for their project
 - Make themselves available to answer questions and help others
 - Hack on things themselves



Project List

- Data Leak Prevention (DLP)
- IPv4-IPv6 Transition Technology Interop
- JMAP Interop
- DNS
- DNS-Based Service Discovery (DNSSD)
- TLS
- NETVC
- SACM
- YANG/NETCONF/RESTCONF
- QUIC
- Captive Portals
- Interface to Network Security Functions (I2NSF) Framework
- Public Interest and HTTP Status Code 451
- Generating Certificate Requests for Short-Term, Automatically-Renewed (STAR) Certificates
- IPv6 compression+fragmentation prototype implementation for LoRaWAN
- DOTS Interop
- ECN / AQM Testing & Interop
- IOAM
- WISHI
- COAP-over-TCP

Project Presentations

1. What problem are you solving?
2. How you plan to solve it?
3. What did you achieve?

Things to highlight

- Lessons learned
- Feedback to work group
- First time IETFers

3 minute time limit



Judging Criteria

- Advance pace and relevance of IETF standards
 - Bring speed and collaborative spirit of open source software into the IETF
 - Flush out ideas, feed into WG session
 - Produce sample code/reference implementations, utilities
- Attract developers, young people to IETF
 - Match young, skillful developers with IETF veterans
 - University engagement around hackathon projects

Collaborate on Code

<https://github.com/ietf-hackathon>

- Git/GitHub commonly used for open source projects
- Getting started:
 - Install Git on laptop <https://help.github.com/articles/set-up-git/>
 - Join Hackathon repo <https://github.com/ietf-hackathon>
 - Fork a project, or the repo, to work on an existing project or add a new one <https://help.github.com/articles/fork-a-repo/>
 - “Follow” team members and “watch” project(s) <https://help.github.com/articles/be-social/>
- Self Paced Tutorial
 - <https://learninglabs.cisco.com/lab/git-intro/step/1>

<https://github.com/ietf-hackathon>



IETF-Hackathon

Repository for sharing code, presentations, and other artifacts at IETF hackathons

✉ hackathon@ietf.org

📁 Repositories

👤 People 5

👥 Teams 0

📁 Projects 0

⚙️ Settings

Type: All ▾

Language: All ▾

Customize pinned repositories

📄 New

smartcards4dnssec

Code to allow stock BIND to use smartcards

● C ★ 1 Updated on Apr 24



webrtc-e911-psap

WebRTC Emergency Services with Indoor Location

● JavaScript 🍷 3 Updated on Mar 30



delaydns

● C ★ 3 Updated on Mar 14



Top languages

● C ● JavaScript ● Python

People

5 >



Invite someone

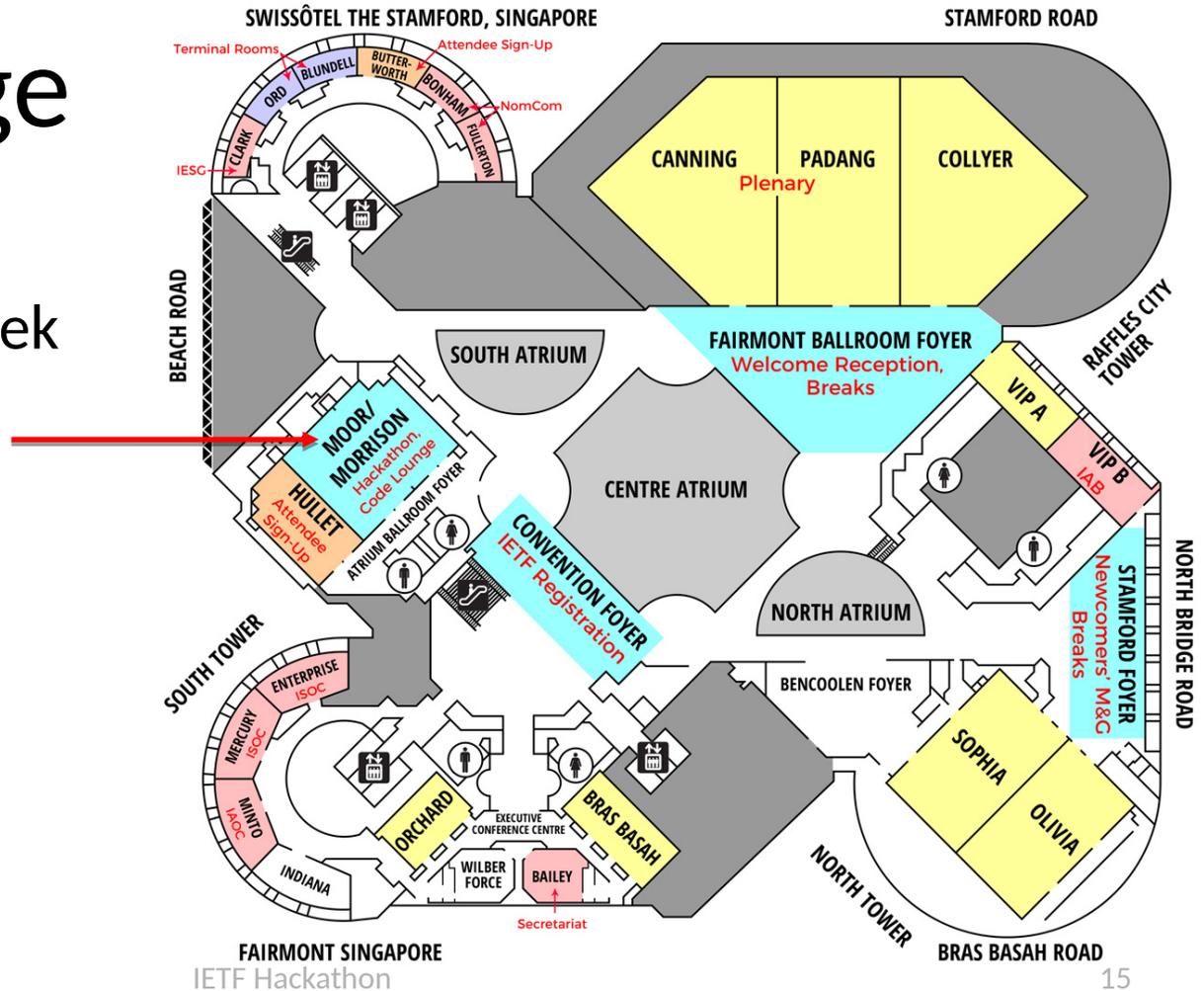
#IETFHackathon Photo Contest

- Best IETF Hackathon Photo
- Post to Twitter
#IETFHackathon
#IETF100



Code Lounge

- Space reserved in IETF Lounge all week
- Collaborate on running code
- Schedule time for your team



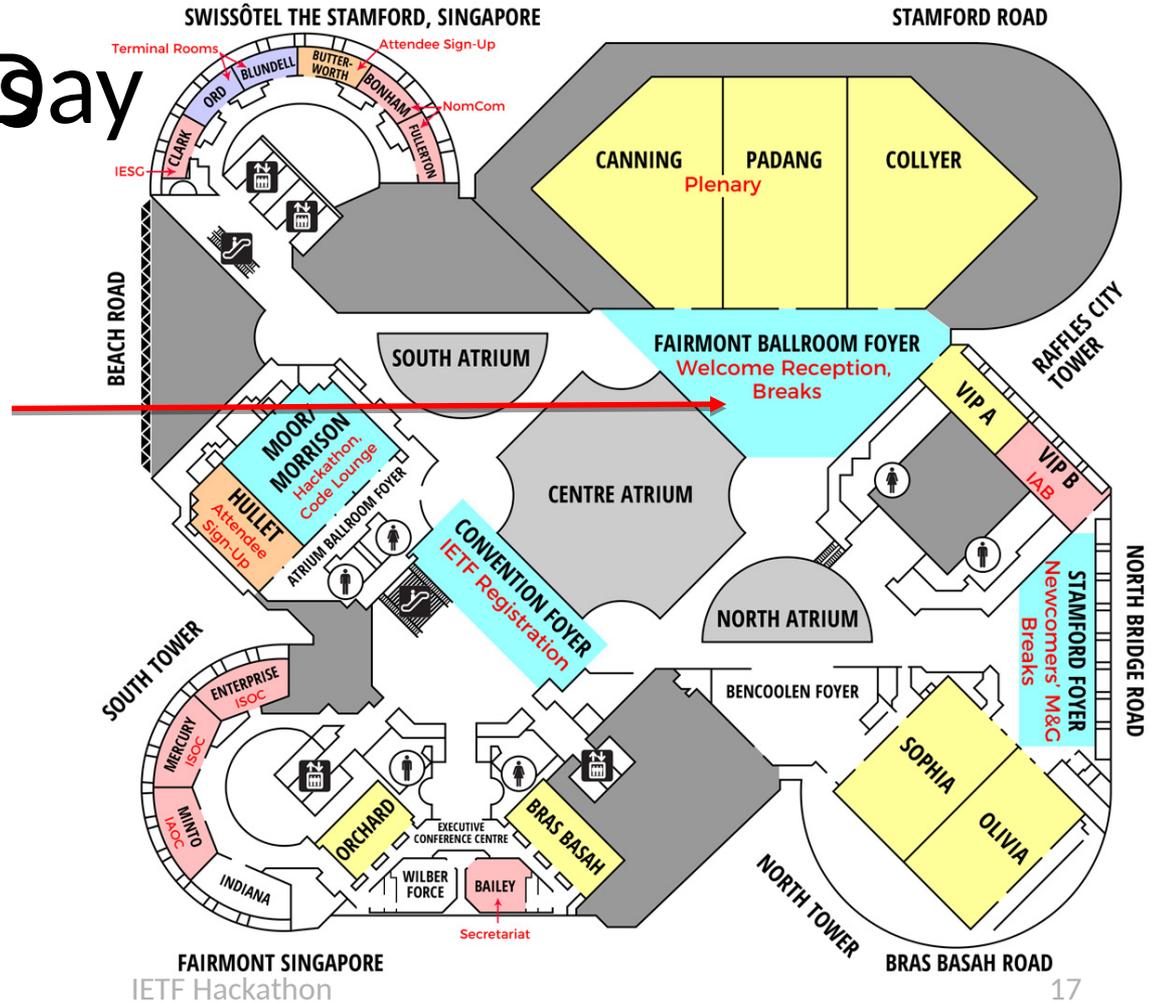
Code Lab

- Rack of equipment that includes a CMTS, cable modems, and VMs on demand
- Access to generic VMs, a CMTS, a home network environment, etc.
- Questions/Requests email
 - Charles Eckel eckelcu@cisco.com
 - Chris Tuska Chris.Tuska@arris.com



Run Bits & Bite Day

- Wednesday before and after IETF Plenary
- Fairmont Ballroom Foyer
- Share hackathon projects with IETF Community



THANK YOU!

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Questions?



Let's Start Hacking!

