IETF
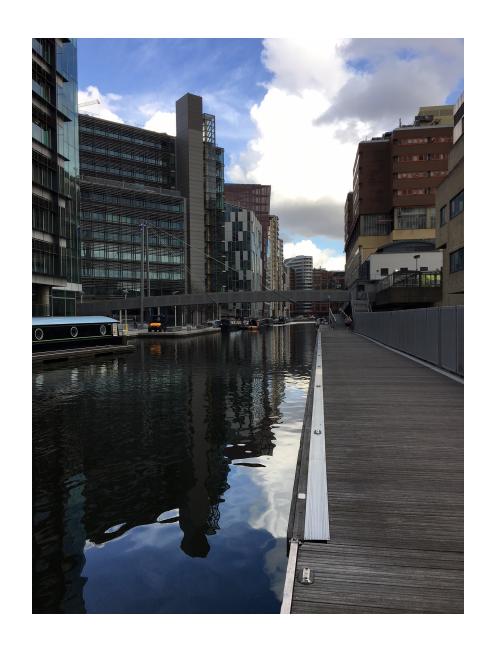# Hackathon

IETF 101
17-18 March, 2018
London

Goal

- 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

Participants

272 registered*, 216 onsite, 26* remote

- First IETF event? 74*

- First IETF Hackathon? 109*

- Not attending IETF meeting? 74

* based on registrations rather than actual counts

Project List

- 6LoRITT: 6LoWPAN Interoperability Testing Sessions (plugtest) with the F-Interop Testing Platform
- ANIMA voucher and ACP
- ARC (related to DMARC WG)
- DHCPv6
- DNS
- DNS Service Discovery (DNSSD)
- DOTS Interop
- DTN (Delay Tolerant Networking) - Bundle Protocol v7 PoC Python implementation
- EAP TLS with large certificates and long certificate chains

- ECN / AQM Testing & Interop
- Firmware Updates for Internet of Things
- ICN-RIOT
- ICN for critical, time sensitive systems
- IETF Mailing List Analysis
- Interface to Network Security Functions (I2NSF) Framework
- Interoperation between NEAT and PvD (provisining domains - intarea)
- JMAP
- Limited Usage of Remote Key (LURK) for TLS1.2

Project List (cont)

- LPWAN: IPv6 compression + fragmentation implementation and testing, a shot at ICMPv6
- Making Multicast IP more successful
- Messaging Layer Security
- Multilingual email
- Network Time Security (NTS)
- NFV on a Federated and Orchestrated Virtualisation Platform
- (Privacy-Friendly, Scalable, Passive/Hybrid?) Transport Measurability

- Public interest technology
- QUIC
- SACM/XMPP Interface Discovery
- TLS 1.3
- WebRTC Data Channels
- WebRTC Identity
- WISHI (Work on IoT Semantic / Hypermedia Interoperability)
- YANG/NETCONF/RESTCONF
- YANG based EVC Service Modeling in OpenDaylight
- YANG/NETCONF interface in Kea DHCPv6 server
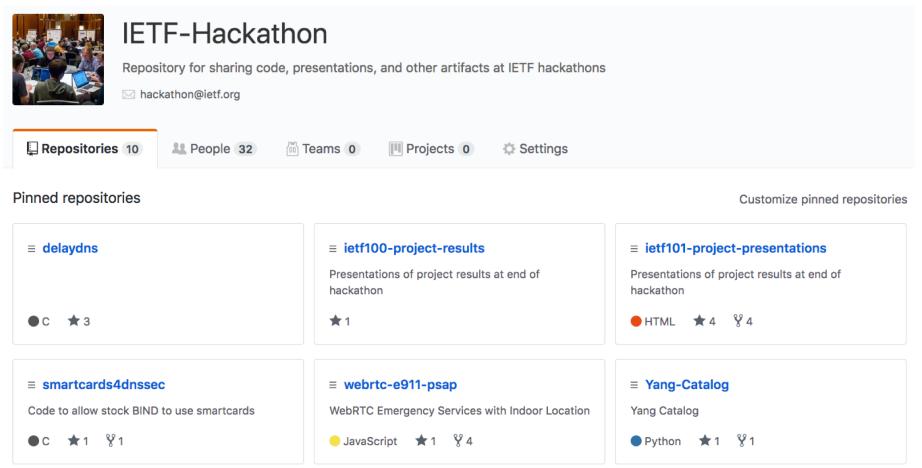
Project Presentations

1. What problem you tried to solve?

2. How you planned to solve?

3. What you achieved?

Things to highlight

- Lessons learned
- **Feedback to work group**
- First time IETFers
- Open source, other SDOs

https://github.com/ietf-hackathon

IETF-Hackathon

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

✉ hackathon@ietf.org

📖 Repositories 10   👥 People 32   🎽 Teams 0   📋 Projects 0   ⚙ Settings

Pinned repositories

Customize pinned repositories

≡ **delaydns**	≡ **ietf100-project-results**	≡ **ietf101-project-presentations**
	Presentations of project results at end of hackathon	Presentations of project results at end of hackathon
⬤ C ★ 3	★ 1	🔴 HTML ★ 4 ⑂ 4
≡ **smartcards4dnssec**	≡ **webrtc-e911-psap**	≡ **Yang-Catalog**
Code to allow stock BIND to use smartcards	WebRTC Emergency Services with Indoor Location	Yang Catalog
⬤ C ★ 1 ⑂ 1	🟡 JavaScript ★ 1 ⑂ 4	🔵 Python ★ 1 ⑂ 1

Code Lounge

- Space reserved in IETF Lounge all week
- Collaborate on running code, [schedule](#) time for your team

Room: Sovereign

At IETF 101 the Hackathon teams re is the ability to organize sessions focused on running code in an effort to diversify the type of work that happens during IETF meetings. This will allow for groups to informally meet to brainstorm, code, and test ideas in the Code Lounge, a portion of the IETF lounge set aside for such activities. The area will be designated by signage.

You are encouraged to look at the final agenda and determine timeslots best suited to ensure successful attendance of Code Lounge sessions as well as any traditional working group sessions. **It is okay for multiple groups to sign up for the same timeslots. This is in fact encouraged for work that spans multiple WGs.**

Please sign up for a timeslot below by entering your WG or project acronym.

	Monday, March 19	Tuesday, March 20	Wednesday, March 21	Thursday, March 22	Friday, March 23
08:00	BIND DNS Team,				
10:00	BIND DNS Team,			OpenWSN/RIOT	
12:00				OpenWSN/RIOT	
14:00	BIND DNS Team,	NTP NTS			-- Lounge Closed --
16:00	BIND DNS Team,	NTP NTS	6TiSCH/roll		-- Lounge Closed --
18:00	Hackdemo Happy Hour		F-interop event (6TiSCH/OSCORE/others?)		-- Lounge Closed --
20:00	Hackdemo Happy Hour		OpenWSN implementation (6TiSCH/roll/6lo/)		-- Lounge Closed --

Hackdemo Happy Hour

- Share hackathon projects with IETF Community

- Monday 1800-2000, Code Lounge, [Register for space](#)

IETF 101 Hackdemo Happy Hour!

Room: Sovereign

Join us for an in depth look at some of the great projects from the IETF Hackathon. This is your opportunity to meet with the teams behind the projects and get answers to any and all of the questions you may have about what they did, how they did it, and the impact it has on work going on at the IETF.

The Hackdemo Happy Hour will take place on Monday, March 19 from 18:00 to 20:00. Snacks will be provided and a cash bar will be available.

Hackathon teams are welcome and encouraged to add their project by entering the project acronym in the table below.

Project Name
* DTN (Delay Tolerant Networking) - Bundle Protocol v7 PoC Python implementation
* Making multicast IP more successful (HTTP over multicast QUIC (and possibly AMT)
* NTP Network Time Security implementation
* Multiple Provisioning Domains (IPv6-mPvD)
* Public Interest Technology & HRPC: RFC7725 ⇨ NetBlocks Project ⇨ validation work, WebRTC signalling privacy review and beyond
* EVC Based Service Models Implemented in OpenDaylight?
* I2NSF (Interface to Network Security Functions) Framework ⇨ https://github.com/kimjinyong/i2nsf-framework/tree/master/Hackathon-101
* Multilingual E-mail RFC 8255 - demo of reflector and Neomutt ⇨ Presentation

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How to make more useful?