

IETF 116 Hackathon

25-26 March 2023

This session is being recorded

IETF 116 Yokohama
hosted by





Image credit: National Library of Medicine



Welcome !

- First IETF Hackathon?

Welcome !

- First IETF Hackathon?
- First IETF event?

Welcome !

- First IETF Hackathon?
- First IETF event?
- First in-person event since COVID-19?

Why Are We Here

- Advance pace and relevance of IETF standards
 - Bring speed and collaborative spirit of open source community into IETF
 - Flush out ideas, feed into working group sessions
 - Produce sample code, reference implementations, utilities
- Attract developers, new people to IETF
 - Match new, skillful developers with IETF veterans
 - University engagement

Note Well

This is a reminder of IETF policies in effect on various topics such as patents or code of conduct. It is only meant to point you in the right direction. Exceptions may apply. The IETF's patent policy and the definition of an IETF "contribution" and "participation" are set forth in BCP 79; please read it carefully.

As a reminder:

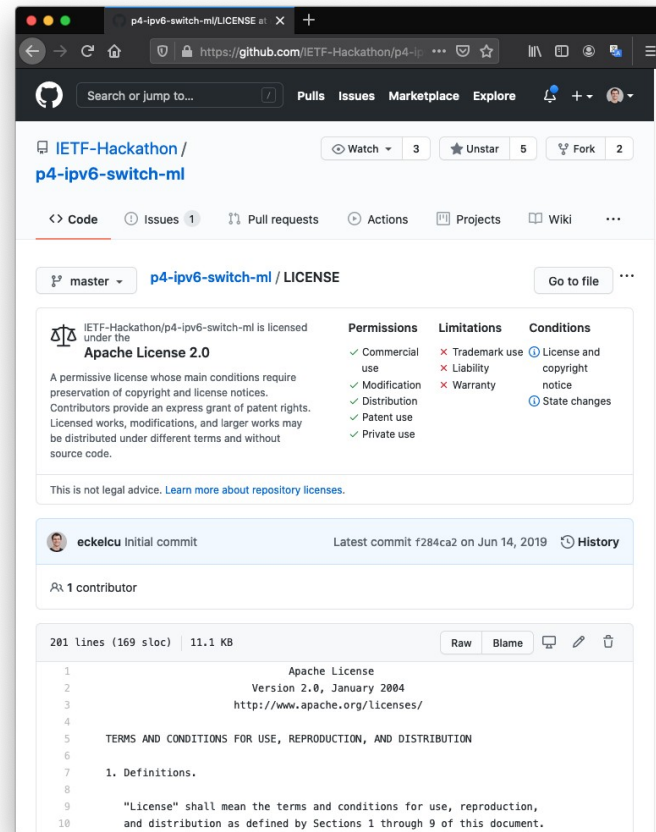
- By participating in the IETF, you agree to follow IETF processes and policies.
- If you are aware that any IETF contribution is covered by patents or patent applications that are owned or controlled by you or your sponsor, you must disclose that fact, or not participate in the discussion.
- As a participant in or attendee to any IETF activity you acknowledge that written, audio, video, and photographic records of meetings may be made public.
- Personal information that you provide to IETF will be handled in accordance with the IETF Privacy Statement.
- As a participant or attendee, you agree to work respectfully with other participants; please contact the ombudsteam (<https://www.ietf.org/contact/ombudsteam/>) if you have questions or concerns about this.

Definitive information is in the documents listed below and other IETF BCPs. For advice, please talk to WG chairs or ADs:

- [BCP 9](#) (Internet Standards Process)
- [BCP 25](#) (Working Group processes)
- [BCP 25](#) (Anti-Harassment Procedures)
- [BCP 54](#) (Code of Conduct)
- [BCP 78](#) (Copyright)
- [BCP 79](#) (Patents, Participation)
- <https://www.ietf.org/privacy-policy/>(Privacy Policy)

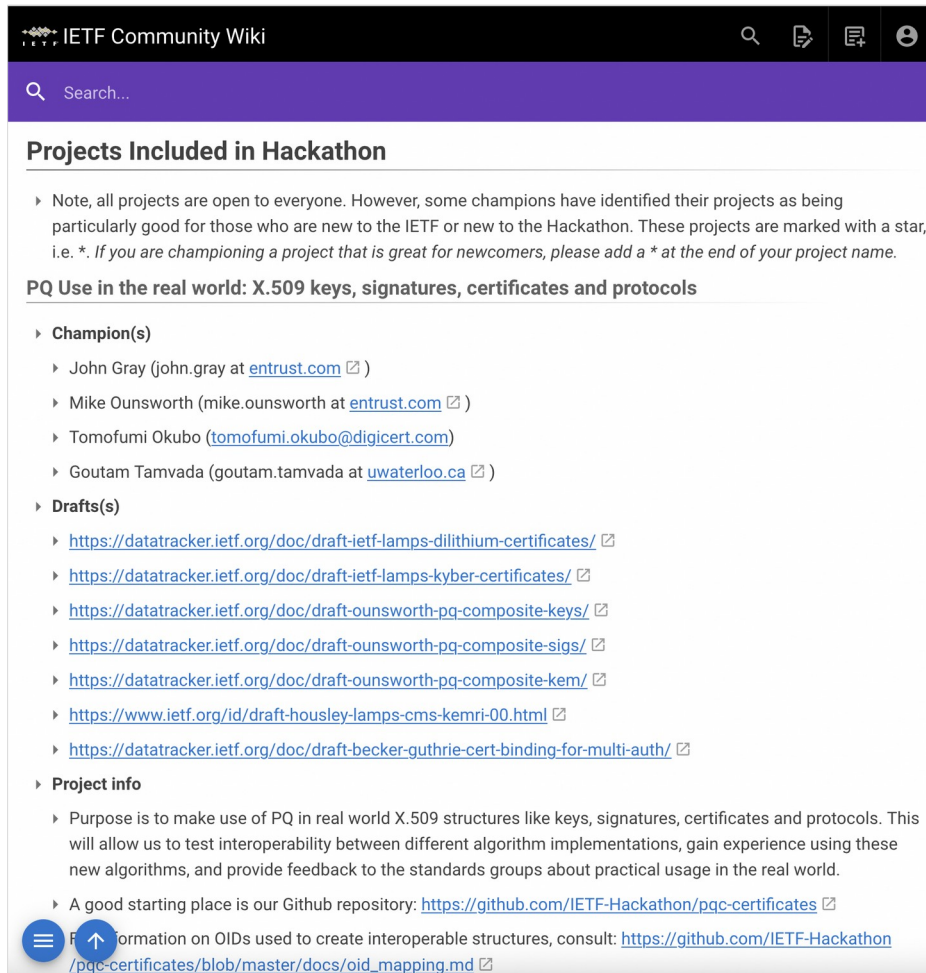
Code Contribution Guidelines

- Participants can work on any code
- Rules regarding code are per participant's organization and the code's license
- The code itself is NOT an IETF contribution
- Discussions, presentations, and demos in Hackathon are IETF contributions. In this context, Hackathon is like a working group, and the usual IETF copyright and IPR disclosure rules apply



Projects

- On the [Hackathon wiki](#)



The screenshot shows the IETF Community Wiki interface. At the top is a navigation bar with the title 'IETF Community Wiki' and icons for search, edit, and user profile. Below this is a purple search bar with the text 'Search...'. The main content area is titled 'Projects Included in Hackathon'. It contains a paragraph of introductory text, followed by a section 'PQ Use in the real world: X.509 keys, signatures, certificates and protocols'. This section is divided into two sub-sections: 'Champion(s)' and 'Drafts(s)'. The 'Champion(s)' section lists four individuals with their names and email addresses. The 'Drafts(s)' section lists seven draft documents with their URLs. Below these is a 'Project info' section with two paragraphs of text and a link to a Github repository. At the bottom left of the content area is a blue circular icon with a white 'u' and an upward arrow, with the text 'Information on OIDs used to create interoperable structures, consult: https://github.com/IETF-Hackathon/pqc-certificates/blob/master/docs/oid_mapping.md' next to it.

IETF Community Wiki

Search...

Projects Included in Hackathon

► Note, all projects are open to everyone. However, some champions have identified their projects as being particularly good for those who are new to the IETF or new to the Hackathon. These projects are marked with a star, i.e. *. If you are championing a project that is great for newcomers, please add a * at the end of your project name.

PQ Use in the real world: X.509 keys, signatures, certificates and protocols

► **Champion(s)**

- John Gray (john.gray at [entrust.com](#))
- Mike Ounsworth (mike.ounsworth at [entrust.com](#))
- Tomofumi Okubo ([tomofumi.okubo@digicert.com](#))
- Goutam Tamvada (goutam.tamvada at [uwaterloo.ca](#))

► **Drafts(s)**

- <https://datatracker.ietf.org/doc/draft-ietf-lamps-dilithium-certificates/>
- <https://datatracker.ietf.org/doc/draft-ietf-lamps-kyber-certificates/>
- <https://datatracker.ietf.org/doc/draft-ounsworth-pq-composite-keys/>
- <https://datatracker.ietf.org/doc/draft-ounsworth-pq-composite-sigs/>
- <https://datatracker.ietf.org/doc/draft-ounsworth-pq-composite-kem/>
- <https://www.ietf.org/id/draft-housley-lamps-cms-kemri-00.html>
- <https://datatracker.ietf.org/doc/draft-becker-guthrie-cert-binding-for-multi-auth/>

► **Project info**

- Purpose is to make use of PQ in real world X.509 structures like keys, signatures, certificates and protocols. This will allow us to test interoperability between different algorithm implementations, gain experience using these new algorithms, and provide feedback to the standards groups about practical usage in the real world.
- A good starting place is our Github repository: <https://github.com/IETF-Hackathon/pqc-certificates>

Information on OIDs used to create interoperable structures, consult: https://github.com/IETF-Hackathon/pqc-certificates/blob/master/docs/oid_mapping.md

Projects

- On the [Hackathon wiki](#)
- Not sure which project to join?
- Check the [Lost & Found](#)

The screenshot shows the IETF Community Wiki page for 'Hackathon Lost & Found'. The page has a dark header with the IETF logo and navigation icons. Below the header is a breadcrumb trail: home / meeting / 116 / hackathon / lost&found. The main title 'Hackathon Lost & Found' is displayed, followed by 'Edit' and 'Edit on GitHub' buttons. The content area includes a section titled 'Hackathon Lost & Found' with introductory text and two tables: 'Skills to Offer' and 'Skills Needed'. The 'Skills to Offer' table has columns for Name, Email Address, and Skills and/or interests you have to offer. The 'Skills Needed' table has columns for Name, Email Address, and Skills your team needs. At the bottom, there is a search bar with the text 'lost' and several checkboxes for search options: Highlight All, Match Case, Match Diacritics, and Whole Words. The search results show 1 of 3 matches.

IETF Community Wiki

home / meeting / 116 / hackathon / lost&found

Hackathon Lost & Found

[Edit](#) [Edit on GitHub](#)

Hackathon Lost & Found

Are you a Hackathon participant looking for a team to join?
Are you championing a Hackathon project and in need of some specific expertise?
If you answered yes to either of these, you have come to the right place.

Participants looking for a team are encouraged to add themselves to the "Skills to Offer" table, providing some information about their skills and interests. This will help others with matching needs and/or interests find you.

Champions wanting help on their projects are encouraged to add themselves to the "Skills Needed" table, providing some information about the skills they seek.

Skills to Offer

Name	Email Address	Skills and/or interests you have to offer

Skills Needed

Name	Email Address	Skills your team needs
------	---------------	------------------------

X lost ^ v ☐ Highlight All ☐ Match Case ☐ Match Diacritics ☐ Whole Words 1 of 3 matches

Agenda - Saturday

- **09:30** : Room open for setup by project champions
- **10:00** : Room open for all - pastries and coffee provided
- ➔ • **10:30** : Hackathon kickoff, [Meetecho](#)
- **10:45** : Form Teams, see [Team Schedule](#)
- **12:30** : Lunch provided
- **15:30** : Afternoon break - snacks provided
- **18:30** : Dinner provided
- **20:30** : Room closes

(conference center closed completely at 21:00)

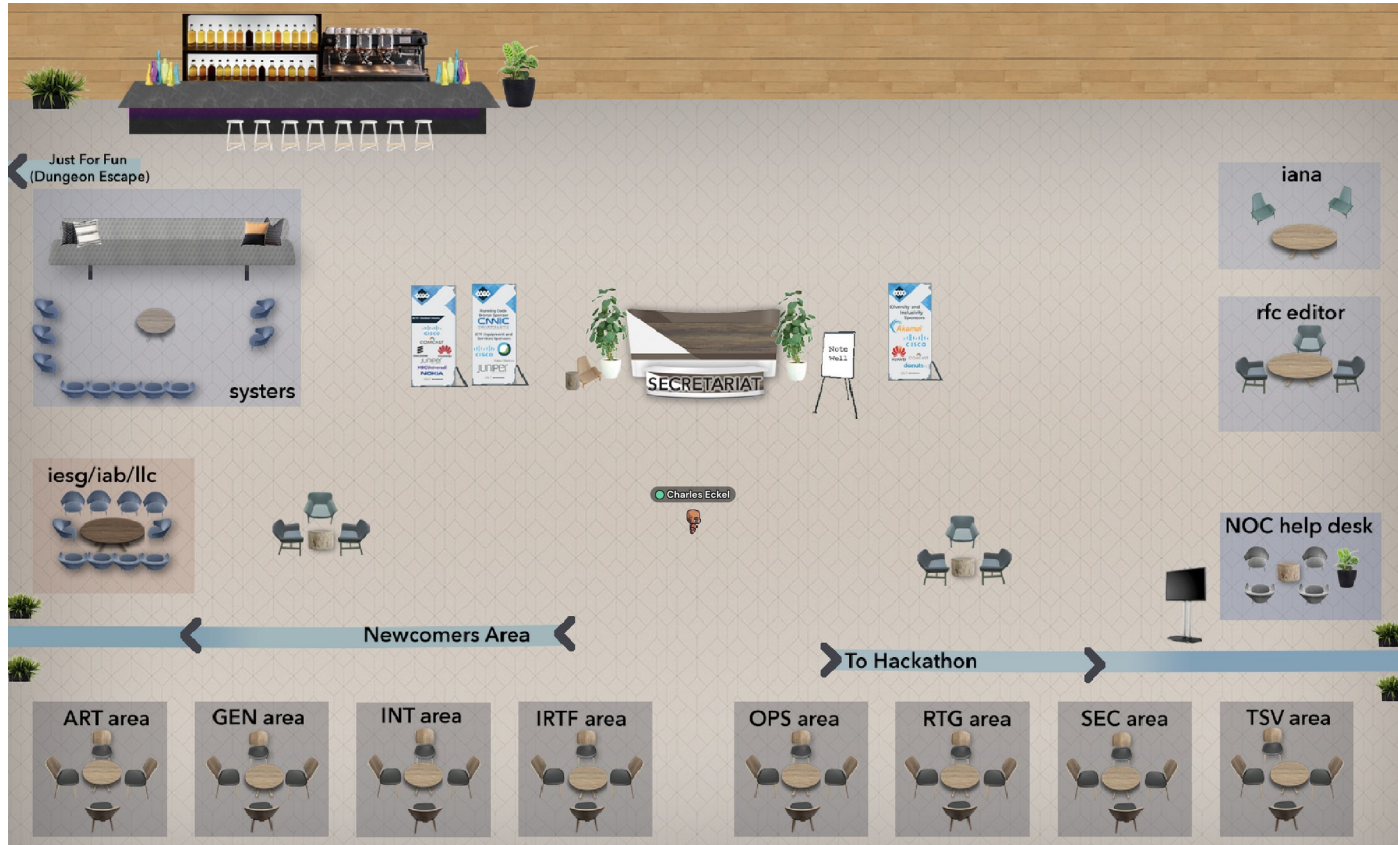
Team Schedule		
Edit Edit on GitHub		
Team Schedule		
The IETF Hackathon is taking place as a hybrid event. The overall agenda for the Hackathon is HERE .		
Within the overall agenda, it is up to individual project teams to determine their own preferred ways to collaborate. Many teams likely include both in-person and remote participants.		
The IETF is using gather.town to facilitate social interaction at the IETF meeting. There is a space for the Hackathon with tables and whiteboards that teams can use for group communication and information sharing. Gather (password: notewell)		
You are free to use gather.town, and you may also use Zoom, Webex, Slack, or whatever works best for your team. If you want to use Webex and need a Webex account, you can find more info HERE .		
Teams: Please fill out the table below to inform others how and when to collaborate with your team.		
Project/Team name	Date(s) and time(s), including timezone	Meeting link, URL, email address, etc.
PQ Use in the real world: X.509 keys, signatures, certificates and protocols	March 25th 11:00 pm and 4:00 pm JST (UTC+9), March 26th 1:00 pm JST (UTC+9)	Gather Town Hackathon Table G
BGP-CT PlugFest: InterOp With JUNOS BGP CT	March 25th 11:00 pm and 4:00 pm JST (UTC+9), March 26th 1:00 pm JST (UTC+9)	Gather Town Hackathon Table F

Agenda - Sunday

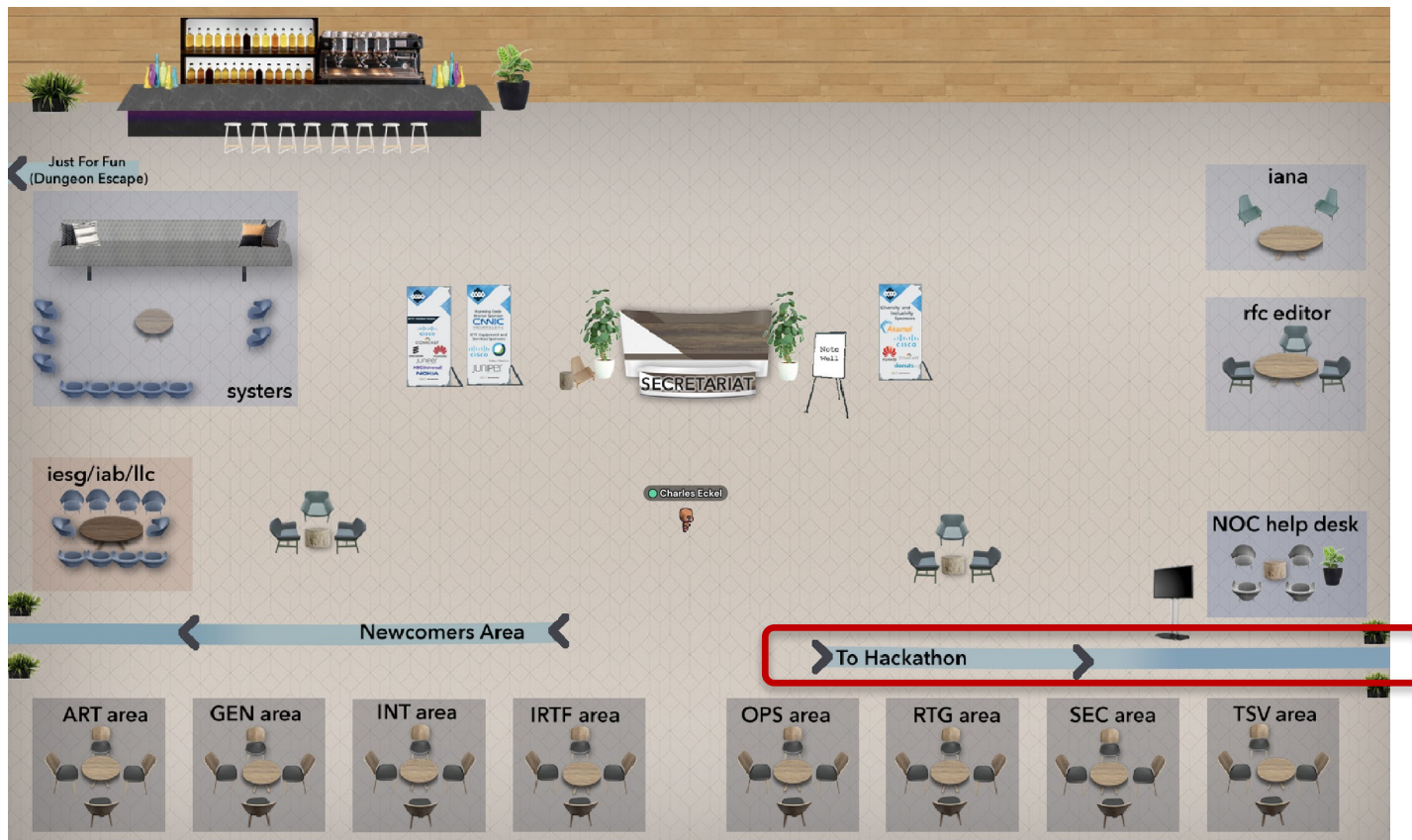
- **09:30** : Room opens - pastries and coffee provided
- **12:30** : Lunch provided
- **13:30** : Hacking stops, prepare brief presentation of project
- **14:00** : Project results presentations, [Meetecho](#)
- **16:00** : Hackathon ends



Gather <https://app.gather.town/app/L4fNNdm1NJa1sE2v/ietf>



Gather <https://app.gather.town/app/L4fNNdm1NJ1sE2v/ietf>



Hackathon Space



HackNet (<https://hacknet.meeting.ietf.org>)

- Special network designed for supporting IETF protocol development across teams within the IETF Hackathon
- Join the IETF network while attending remotely
- Instructions (https://wiki.ietf.org/meeting/116/hackathon/hacknet_instructions)
- Anyone with their own AP?
 - 5 GHz: Channel 36 only, 20 MHz channels
 - 2.4 GHz

Results Presentations

1. What problem you tried to solve?
2. What you achieved?
3. Highlights
 - Lessons learned
 - Feedback to working group
 - Open source, other SDOs

3 minutes or less



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



[Pull requests](#) [Issues](#) [Codespaces](#) [Marketplace](#) [Explore](#)





IETF-Hackathon

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

 22 followers  hackathon@ietf.org

[Overview](#) [Repositories](#) 33 [Projects](#) [Packages](#) [Teams](#) [People](#) 181 [Settings](#)

Pinned

 [mDNSResponder](#) Public

 49  9

 [pqc-certificates](#) Public

Post-quantum cryptography certificates

 10  9

Repositories

[Type](#) [Language](#) [Sort](#) [New](#)

[pqc-certificates](#) Public

Post-quantum cryptography certificates

 10  9  7  0 Updated 5 days ago

[ietf116-project-presentations](#) Public

Project results presentations at end of Hackathon

 1  0  0  0 Updated on Nov 28, 2022

[View as: Public](#)

You are viewing the README and pinned repositories as a public user.

You can [create a README file](#) visible to anyone.

[Get started with tasks](#) that most successful organizations complete.

Discussions

Set up discussions to engage with your community!

[Turn on discussions](#)

People



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



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 HTML  1  0  0  0 Updated on Nov 28, 2022

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People



<https://github.com/IETF-Hackathon/ietf116-project-presentations>

The screenshot shows the GitHub interface for the repository `IETF-Hackathon / ietf116-project-presentations`. The repository is public and has 1 star, 0 forks, and 5 watchers. The main navigation bar includes links for Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. The repository's main branch is `main`, with 2 branches and 0 tags. A commit by `bjovereinder` is highlighted, titled "initialise README and templates", with commit hash `fa38f43` and dated Nov 28, 2022. The commit message is "initialise README and templates". The commit history shows four files: `.github/workflows`, `README.md`, `hackathon-presentation-template....`, and `hackathon-presentation-template....`, all created 4 months ago. The "About" section on the right describes the project as "Project results presentations at end of Hackathon" and lists 1 star, 5 watching, and 0 forks.

Search or jump to... Pull requests Issues Codespaces Marketplace Explore

IETF-Hackathon / ietf116-project-presentations Public

Edit Pins Watch 5 Fork 0 Star 1

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

main 2 branches 0 tags Go to file Add file <> Code

bjovereinder initialise README and templates ✓ fa38f43 on Nov 28, 2022 3 commits

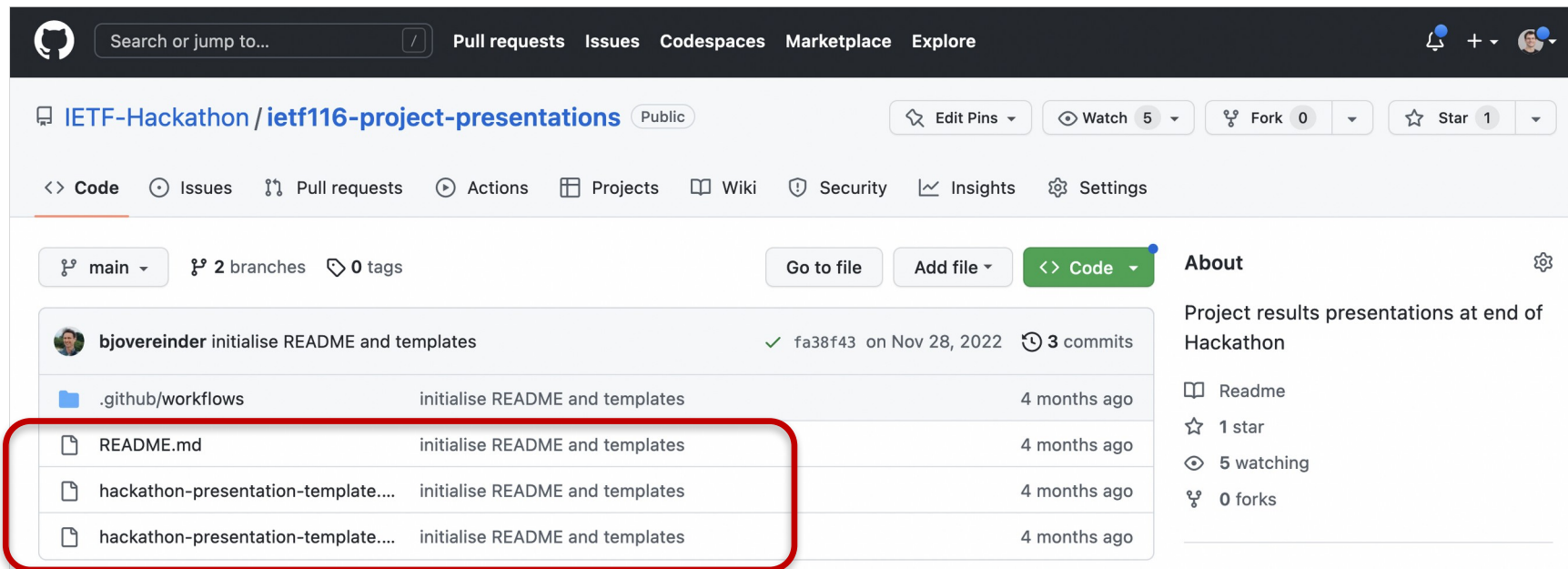
.github/workflows	initialise README and templates	4 months ago
README.md	initialise README and templates	4 months ago
hackathon-presentation-template....	initialise README and templates	4 months ago
hackathon-presentation-template....	initialise README and templates	4 months ago

About

Project results presentations at end of Hackathon

Readme 1 star 5 watching 0 forks

<https://github.com/IETF-Hackathon/ietf116-project-presentations>



Search or jump to... Pull requests Issues Codespaces Marketplace Explore

IETF-Hackathon / ietf116-project-presentations Public

Edit Pins Watch 5 Fork 0 Star 1

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

main 2 branches 0 tags

Go to file Add file <> Code

bjovereinder initialise README and templates ✓ fa38f43 on Nov 28, 2022 3 commits

.github/workflows	initialise README and templates	4 months ago
README.md	initialise README and templates	4 months ago
hackathon-presentation-template....	initialise README and templates	4 months ago
hackathon-presentation-template....	initialise README and templates	4 months ago

About

Project results presentations at end of Hackathon

Readme 1 star 5 watching 0 forks

README

17 lines (10 sloc) 2.44 KB

<>  Raw Blame  

IETF 116 project presentations

This repo is for IETF Hackathon participants to upload project presentations. For convenience, presentation templates are provided in [PPTX](#) and [HTML](#) formats, the latter of which can be viewed [online](#) if it is put in the [main branch](#). For the HTML format, a corresponding [pdf](#) is automatically generated from the HTML file by a [GitHub action](#) and put in the [pdfs-from-html branch](#).

The use of these templates is optional. If you do use one of these templates, please rename the file such that it clearly identifies your project, e.g., includes the name or acronym of your project. The contents of this repo will be used as the source for all project presentations at the end of the Hackathon and remain as a reference after the Hackathon. Presenters are encouraged to run their own presentations using the screen sharing functionality in Meetecho. Alternatively, the Hackathon Chairs can share your presentation and advance slides for you. **For portability, please upload your presentation in PDF or HTML format.**

You MUST be a [member](#) of the [IETF-Hackathon](#) GitHub org to add or update a presentation.

To be added as a member, please be sure to:

- include the [name](#) by which you are known as part of your in your GitHub profile
- enable two-factor authentication ([2FA](#))
- send your GitHub username to hackathon-chairs@ietf.org

DO NOT WAIT until just before project presentations start or your request may be lost in the chaos.

For more info on the Hackathon, including the complete and most up to date agenda, please see the [Hackathon Wiki](#).

README

17 lines (10 sloc) 2.44 KB

<>  Raw Blame  

IETF 116 project presentations

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related-implementations

- For individual drafts, authors can edit “Additional resources”
- For working group drafts and RFCs, working group chairs can edit

The screenshot shows the IETF Datatracker interface for the draft `draft-eckel-edm-find-code-02`. The interface includes a header with the IETF logo and 'Datatracker' text. Below the header, there's a title 'Find Code Related to an Internet-Draft or RFC' and the draft name. Navigation links include 'Status', 'IESG evaluation record', 'IESG writeups', 'Email expansions', and 'History'. The 'Versions' section shows three versions: 00 (Jul 2021), 01 (Jan 2022), and 02 (Jan 2023). The 'Document Type' is 'Active Internet-Draft (individual)' by 'Charles Eckel'. Other fields include 'Last up-dated' (2023-01-10), 'RFC stream' (None), 'Intended RFC status' (None), and 'Formats' (txt, html, xml, htmlized, pdf, bibtex). The 'Additional resources' section has an 'Edit' button and a link to 'Example implementation in RFC 9311 GitHub repository to collaborate on draft'. A red arrow points from the 'Additional resources' section to the second bullet point in the list above.

IETF Hackathon

related-implementations

Additional Resources

github_repo <https://github.com/eckelcu/draft-eckel-edm-find-code>
(GitHub repository to collaborate on draft)

related_implementations <https://datatracker.ietf.org/doc/rfc9311/>
(Example implementation in RFC 9311)

Format: 'tag value (Optional description)'. Separate multiple entries with newline. When the value is a URL, use https:// where possible.

 Datatracker

Find Code Related to an Internet-Draft or RFC
draft-eckel-edm-find-code-02

Status IESG evaluation record IESG writeups Email expansions

History

Versions:

00 01 02

draft-eckel-edm-find-code

00 01 02

Jul 2021 Jan 2022 Jan 2023

Document Type

Active Internet-Draft (individual)

Author

[Charles Eckel](#) ✉

Last up-dated

2023-01-10

RFC stream

(None)

Intended RFC status

(None)

Formats

[txt](#) [html](#) [xml](#) [htmlized](#)
[pdf](#) [bibtex](#)

Additional resources

[Edit](#) [Example implementation in RFC 9311](#)
[GitHub repository to collaborate on draft](#)

Links to standards and code in wikis

<https://wiki.ietf.org/en/meeting/115/hackathon>

The screenshot shows the IETF Wiki page for "SRv6 Data-Plane Visibility". The page has a dark header with a search bar and navigation icons. The main content area is divided into two columns. The left column contains a list of links and project information, with one link highlighted by a red box. The right column contains a "PAGE CONTENTS" sidebar with a list of topics.

SRv6 Data-Plane Visibility

- ▶ Champion(s)
 - ▶ Thomas Graf (thomas.graf at swisscom.com)
 - ▶ Benoit Claise (benoit.claise at huawei.com)
 - ▶ Alex Huang-Feng (alex.huang-feng at insa-lyon.fr)
- ▶ Draft(s)
 - ▶ <https://datatracker.ietf.org/doc/html/draft-tgraf-opsawg-ipfix-inband-telemetry>
 - ▶ <https://datatracker.ietf.org/doc/html/draft-ietf-opsawg-ipfix-srv6-srh>
- ▶ Project info
 - ▶ Develop and validate running code. Extend IPFIX export in VPP at [FD.io](https://fd.io) and on Huawei VRP. Establish SRv6 network topology with network telemetry data-collection and data mesh. Validate exported and transformed IPFIX data.

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 - > Network
 - > Webex sessions for t...

Export of Segment Routing over IPv6 Information in IP Flow Information Export (IPFIX)

draft-ietf-opsawg-ipfix-srv6-srh-06

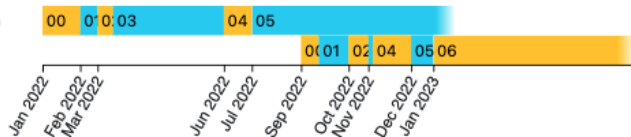
Status IESG evaluation record IESG writeups Email expansions History

Versions:

00 01 02 03 04 05 06

draft-tgraf-opsawg-ipfix-srv6-srh

draft-ietf-opsawg-ipfix-srv6-srh



Document Type

Active Internet-Draft ([opsawg WG](#))

Authors

[Thomas Graf](#) ✉, [Benoît Claise](#) ✉, [Pierre Francois](#) ✉

Last updated

2023-01-06 (Latest revision 2023-01-05)

Replaces

[draft-tgraf-opsawg-ipfix-srv6-srh](#)

RFC stream

Internet Engineering Task Force (IETF)

Intended

Proposed Standard

RFC status

Formats

[txt](#) [html](#) [xml](#) [htmlized](#) [pdf](#) [bibtex](#)

Additional

resources

[Related Implementations](#)

[Mailing list discussion](#)

Stream

[WG state](#)

Submitted to IESG for Publication

Datatracker

Export of Segment Routing over IPv6 Information in IP Flow Information Export (IPFIX)

draft-ietf-opsawg-ipfix-srv6-srh-06

Status IESG evaluation record IESG writeups Email expansions History

Versions:

00 01 02 03 04 05 06

draft-tgraf-opsawg-ipfix-srv6-srh 00 01 02 03 04 05

draft-ietf-opsawg-ipfix-srv6-srh 00 01 02 04 05 06

Jan 2022 Feb 2022 Mar 2022 Jun 2022 Jul 2022 Sep 2022 Oct 2022 Nov 2022 Dec 2022 Jan 2023

Document Type Active Internet-Draft ([opsawg WG](#))

Authors [Thomas Graf](#) ✉, [Benoît Claise](#) ✉, [Pierre Francois](#) ✉

Last up-dated 2023-01-06 (Latest revision 2023-01-05)

Replaces [draft-tgraf-opsawg-ipfix-srv6-srh](#)

RFC stream Internet Engineering Task Force (IETF)

Intended RFC status Proposed Standard

Formats [txt](#) [html](#) [xml](#) [htmlized](#) [pdf](#) [bibtex](#)

Additional resources [Related Implementations](#) [Mailing list discussion](#)

Stream [WG state](#) Submitted to IESG for Publication

[insa-unyte](#) / [vpp-srh-onpath-telemetry](#) Public

SRH and On-path telemetry export in IPFIX for VPP

Apache-2.0 license

4 stars 1 fork

★ Starred

👁 Watch

<> Code ⌚ Issues 🔗 Pull requests 1 🎮 Actions 📁 Projects ...

👤 master

[ahuangfeng](#) feat: update ioam patch reference ... 20 hours ago ⌚ 48

[View code](#)

☰ README.md

VPP topologies

This repository have the vpp configurations for the following POCs in VPP:

- [draft-tgraf-opsawg-ipfix-srv6-srh](#)
- [draft-tgraf-opsawg-ipfix-on-path-telemetry](#)

Dependencies

- VPP fork repository: [INSA-unyte-vpp](#)
- Tested in `ubuntu/focal64` using [Vagrantfile](#)

Find Code Related to an Internet-Draft or RFC

<https://datatracker.ietf.org/doc/draft-eckel-edm-find-code/>

Workgroup: edm
Internet-Draft: draft-eckel-edm-find-code-02
Published: 10 January 2023
Intended Status: Best Current Practice
Expires: 14 July 2023
Author: C. Eckel
Cisco Systems

Find Code Related to an Internet-Draft or RFC

Abstract

Code related to existing IETF standards and ongoing standardization efforts may exist and be publicly accessible in many places. This document provides a set of practices to make it easier to identify and find such code.

The RFC Editor will remove this note

Discussion Venues

This note is to be removed before publishing as an RFC.

Discussion of this document takes place on the Evolvability, Deployability, & Maintainability mailing list (edm@iab.org), which is archived at <https://mailarchive.ietf.org/arch/browse/edm/>.

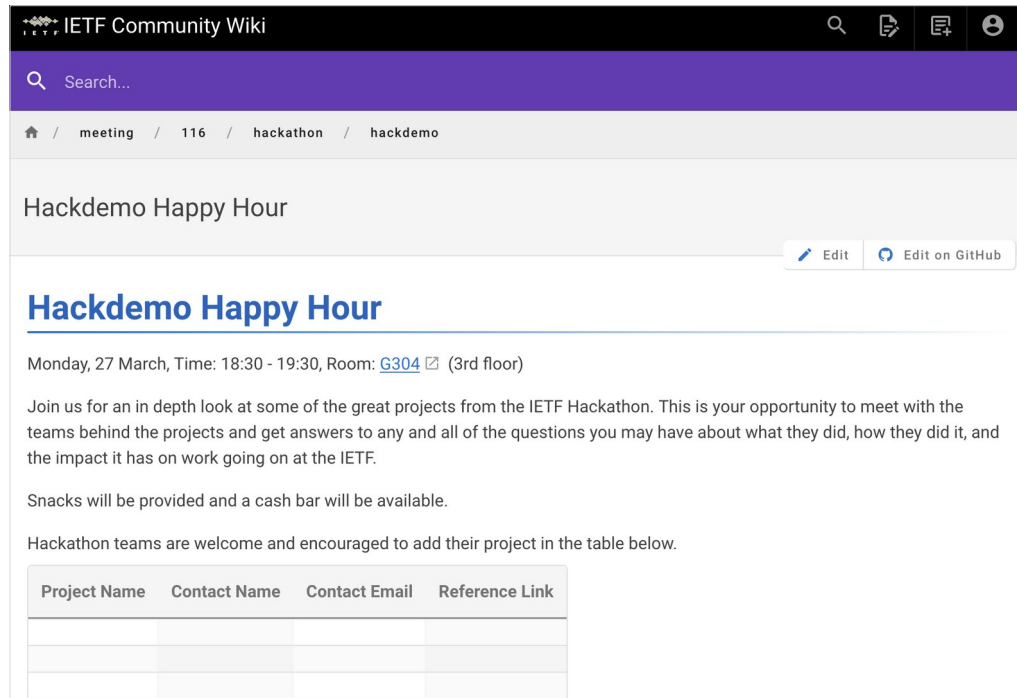
Source for this draft and an issue tracker can be found at <https://github.com/eckelcu/draft-eckel-edm-find-code>.

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 - 3.4. Implementation Status
 - 3.5. Inline Errata
 - 3.6. Known Limitations
4. Implementation Status
5. Security Considerations
6. IANA Considerations
7. Informative References
- Acknowledgments
- Author's Address

Hackdemo Happy Hour

- Share hackathon projects with IETF Community
- Room: [G304](#) (3rd floor)
- Monday 18:30 - 19:30
- Register your team
 - **MUST REGISTER BY 13:00 MONDAY, 27 MARCH**



The screenshot shows the IETF Community Wiki page for 'Hackdemo Happy Hour'. The page has a purple header with a search bar and navigation icons. Below the header, the breadcrumb trail is 'meeting / 116 / hackathon / hackdemo'. The main title 'Hackdemo Happy Hour' is followed by 'Edit' and 'Edit on GitHub' buttons. The content section is titled 'Hackdemo Happy Hour' and includes the following text:

Monday, 27 March, Time: 18:30 - 19:30, Room: [G304](#) (3rd floor)

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.

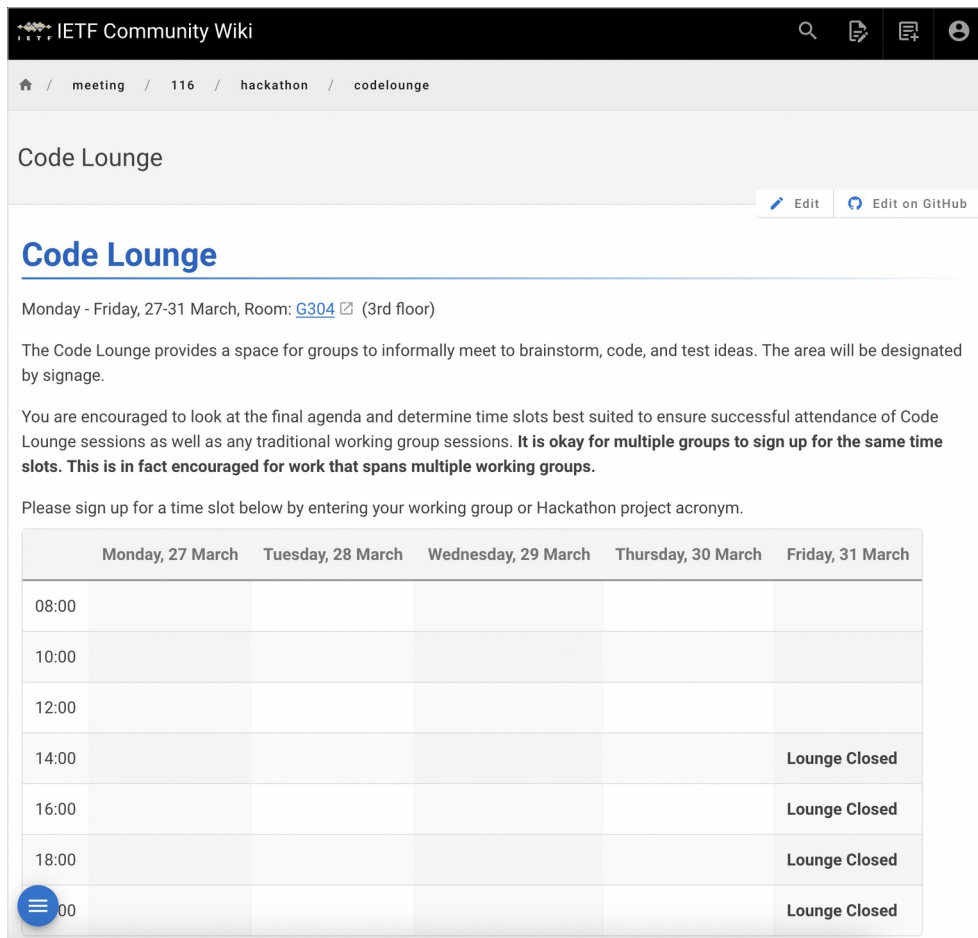
Snacks will be provided and a cash bar will be available.

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

Project Name	Contact Name	Contact Email	Reference Link

Code Lounge

- Room: [G304](#) (3rd floor)
- Space reserved in IETF lounge all week
- Collaborate on running code
- [Schedule](#) time for your team



The screenshot shows the IETF Community Wiki page for the Code Lounge. The page title is "Code Lounge". Below the title, there are links to "Edit" and "Edit on GitHub". The main content area contains the following text:

Code Lounge

Monday - Friday, 27-31 March, Room: [G304](#) (3rd floor)

The Code Lounge provides a space for groups to informally meet to brainstorm, code, and test ideas. The area will be designated by signage.

You are encouraged to look at the final agenda and determine time slots 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 time slots. This is in fact encouraged for work that spans multiple working groups.**

Please sign up for a time slot below by entering your working group or Hackathon project acronym.

	Monday, 27 March	Tuesday, 28 March	Wednesday, 29 March	Thursday, 30 March	Friday, 31 March
08:00					
10:00					
12:00					
14:00					Lounge Closed
16:00					Lounge Closed
18:00					Lounge Closed
00:00					Lounge Closed

Running Code Sponsors - THANK YOU!



Questions?



