

IETF Hackathon

IETF 113
19 – 20 March 2022
Vienna



Welcome back!

- First in-person event since COVID-19?

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- First IETF Hackathon?

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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.

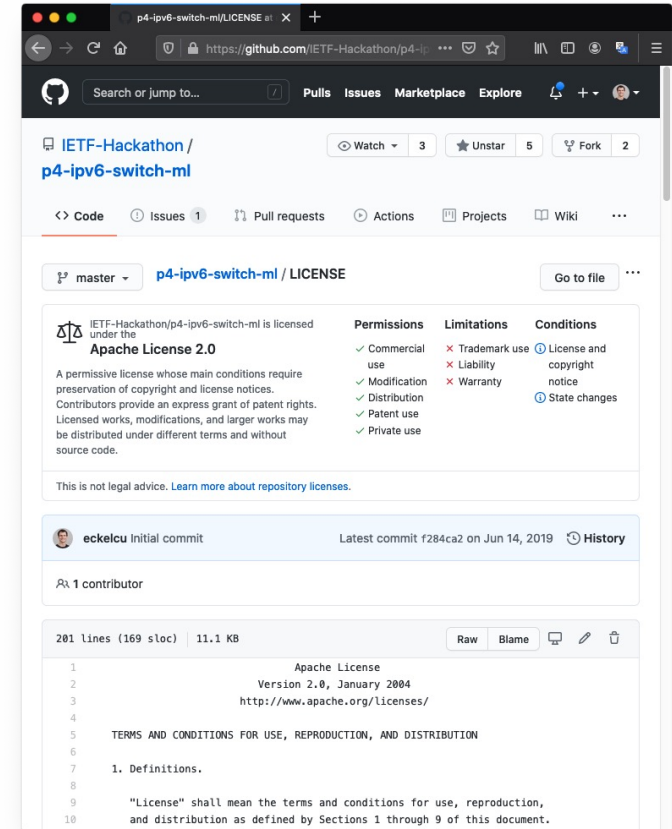
Definitive information is in the documents listed below and other IETF BCPs. For advice, please talk to WG chairs or ADs:

- 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)



IPR and 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



Inclusive Language

- Contributions to the IETF, including Internet-Drafts and RFCs, are most understandable and effective when they use terminology that is clear, precise, and widely accessible to readers from varying backgrounds and cultures.
- The IESG hence encourages IETF participants to use the guidance in [NISTIR8366] when making contributions to the IETF. Although developed for use within the US National Institute of Standards and Technology (NIST), the IETF community expressed strong support for the sentiment that the guidance on inclusive language in [NISTIR8366] is suitable for the IETF as well [1,2]. Using the same terminology as other standards organizations and industry initiatives also contributes to overall coherence in the industry.
- <https://www.ietf.org/about/groups/iesg/statements/on-inclusive-language/>

Projects

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

113hackathon - Meeting Wiki

https://trac.ietf.org/trac/ietf/meeting/wiki/113

Projects Included in Hackathon

- Note, all projects are open to everyone. However, some champions have identified their projects as being particularly good for first time IETFers and/or first time hackathoners. 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.

GMAP: Grant Negotiation and Authorization Protocol

- Champion(s)
 - Justin Richer, Aaron Parecki, Fabien Imbault
- Project(s)
 - Build and connect implementations of GMAP across different platforms. We plan to have implementations of the AS, Client, and RS available for people to extend and use, and to deploy against with other components.
 - Interop profile for the hackathon consists of the "redirect" interaction start method, the "redirect" interaction finish method, and key proofing provided by the combination of HTTP Signatures with RSA-PSS-SHA512 and a Content-Digest with SHA-512 hash (for requests with bodies).
 - Other modes (user-code, push) and signature methods (JWS) will be partially supported by some libraries and are encouraged.
- Resources:
 - Implementations and Libraries: <https://github.com/ietf-wg-gnap/general/wiki/Implementations-and-Libraries>
 - Hackathon Project Goals: <https://github.com/ietf-wg-gnap/general/wiki/Hackathon-113-Goals>
- Specifications:
 - GMAP Core: <https://www.ietf.org/archive/id/draft-ietf-gnap-core-protocol-09.html>
 - HTTP Message Signatures: <https://www.ietf.org/archive/id/draft-ietf-httpbis-message-signatures-09.html>

ANIMA ACP/BRSKI

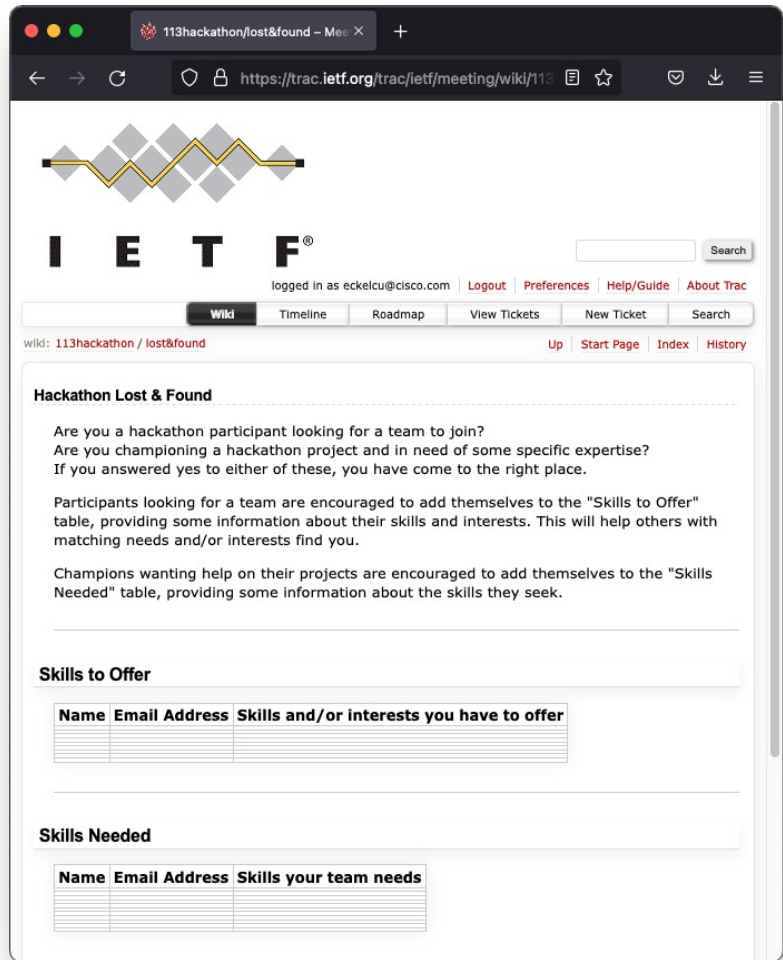
- Michael Richardson mcr at sandelman dot ca
 - I will be bringing a number of small systems with ACP/RFC8994 code installed, and would like to work with others online and in person to do ACP stuff.
- Project(s)
 - RFC8994, ANIMAgus-minerva

CoAP Group Communication with Group OSCORE

- Champion(s)
 - Rikard Höglund <rikard.hoglund at ri.se>
 - Marco Tiloca <marco.tiloca at ri.se>
- Project

Projects

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



The screenshot shows a web browser window displaying the IETF Hackathon Lost & Found page. The browser's address bar shows the URL <https://trac.ietf.org/trac/ietf/meeting/wiki/113>. The page features the IETF logo at the top, followed by a navigation bar with links like "Wild", "Timeline", "Roadmap", "View Tickets", "New Ticket", and "Search". Below the navigation bar, the page title is "Hackathon Lost & Found". The main content area contains text asking if the user is a hackathon participant looking for a team or a championing a project. It also includes two sections: "Skills to Offer" and "Skills Needed", each with a table for users to provide their information.

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

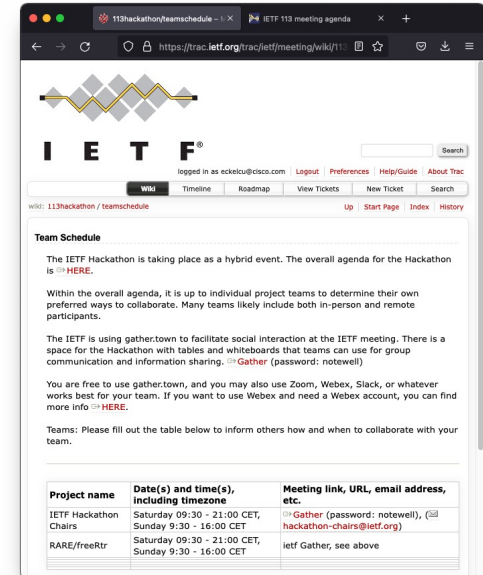
Name	Email Address	Skills and/or interests you have to offer

Skills Needed

Name	Email Address	Skills your team needs

Agenda - Saturday

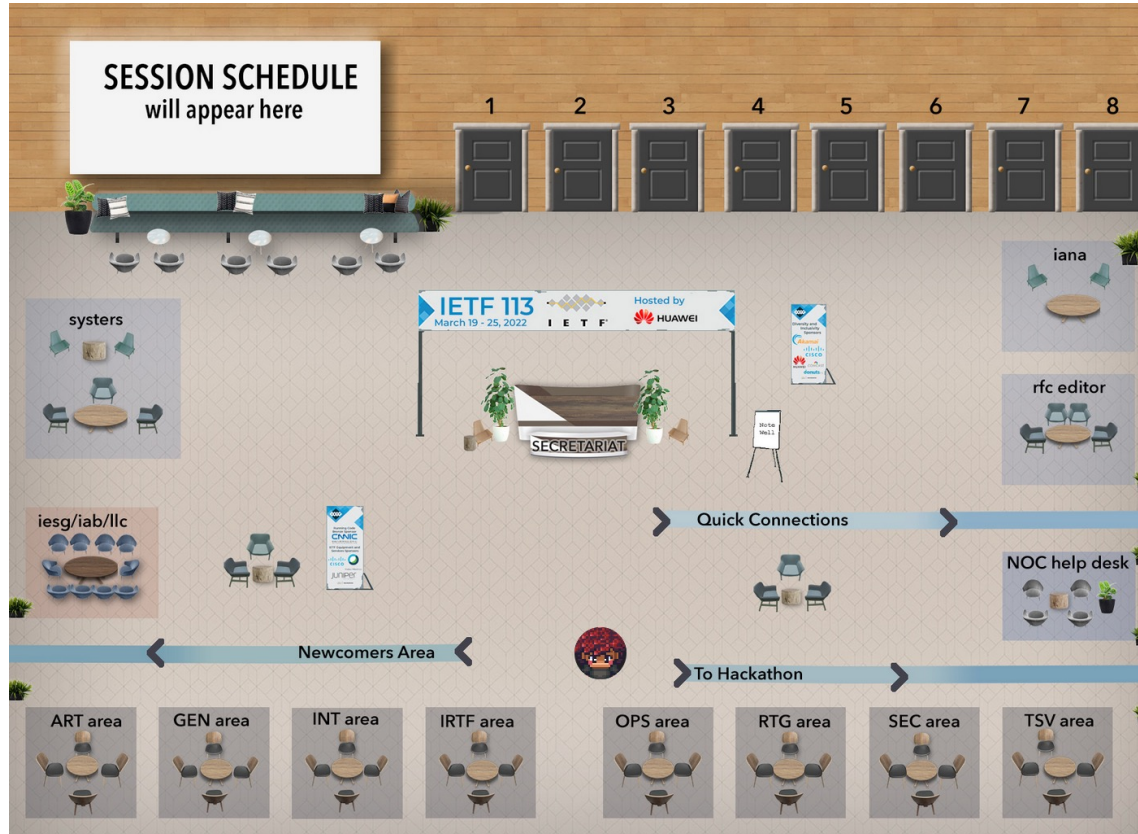
- 09:30: Room open for setup by project champions
- 10:00: Room open for all - Pastries and coffee provided
- 10:30: Hackathon kickoff, [Meetecho](#)
- 10:45: Form Teams, see [Team Schedule](#)
- 12:30: Lunch provided
- 15:30: Afternoon break - Snacks provided
- 18:30: Dinner provided
- 21:00: Room closes



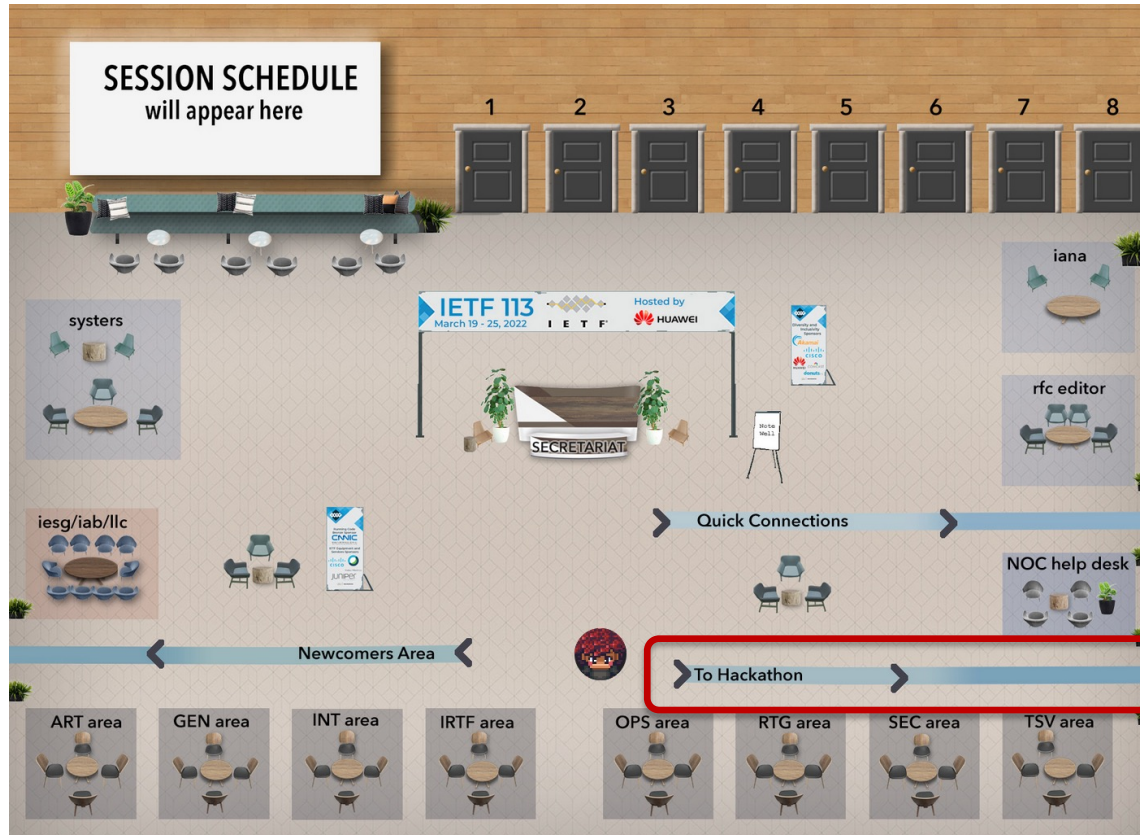
Agenda - Sunday

- 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, see [schedule](#), [Meetecho](#)
- 16:00: Hackathon ends
- 17:00: Tear down complete

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



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



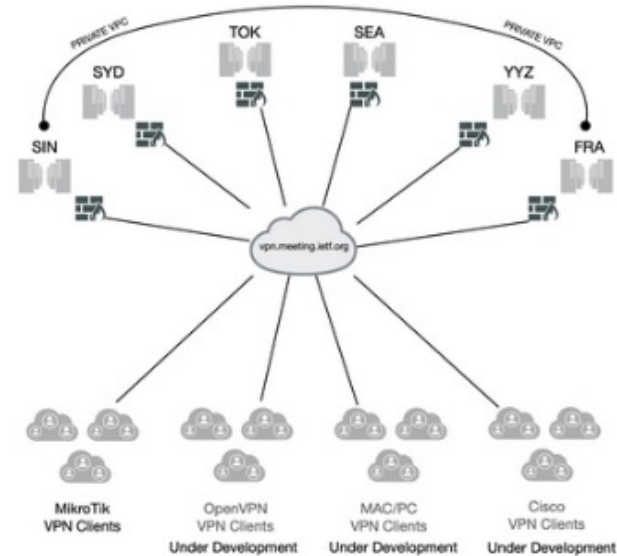
Hackathon Space



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

- The NOC team experiment allows you to join the IETF network while attending remotely
- Version 2 is a complete rebuild of the network
 - Auto provisioning of credentials and device configuration
 - MikroTik is the only hardware that is supported
 - More device types to be added
 - Legacy Pi network is still active but will not have future development or support

HackNet VPN Diagram




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

5 minutes max



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



IETF-Hackathon


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

✉ hackathon@ietf.org

[Overview](#) [Repositories](#) 29 [Packages](#) [People](#) 144 [Teams](#) [Projects](#) [Settings](#)


Pinned

Order updated.

 **ietf113-project-presentations** Public


Presentations of project results at end of Hackathon

● HTML

 **ietf112-project-presentations** Public

Presentations of project results at end of Hackathon

● HTML ☆ 2 🍴 5

 **BGP-ASPA-Interop-Testing** Public

BGP ASPA interop testing for IETF 112 Hackathon

Repositories

Find a repository...

Type Language Sort [New](#)


ietf113-project-presentations Public

Presentations of project results at end of Hackathon

● HTML ☆ 0 🍴 0 🔄 0 Updated on Dec 23, 2021

People

Customize your public pins



[View all](#)

[Invite someone](#)

Top languages


● C ● HTML ● Python

● JavaScript ● P4

IETF Hackathon

18

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BGP ASPA interop testing for IETF 112 Hackathon

Customize your public pins

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ietf113-project-presentations Public

Presentations of project results at end of Hackathon

● HTML ☆ 0 🍴 0 🔄 0 Updated on Dec 23, 2021

Top languages

● C ● HTML ● Python

● JavaScript ● P4

<https://github.com/IETF-Hackathon/ietf113-project-presentations>

The screenshot shows the GitHub interface for the repository `IETF-Hackathon / ietf113-project-presentations`. The repository is public and has 3 watchers, 0 forks, and 0 stars. The main branch is `main` with 1 branch and 0 tags. The repository contains a `README.md` file, which is the focus of the view. The commit history shows a recent commit by `eckelcu` titled "add templates" on Dec 23, 2021, with 3 commits. The `README.md` content describes the repository's purpose for IETF Hackathon participants, mentioning presentation templates in `PPTX` and `HTML` formats, and a `GitHub action` for generating PDFs from HTML files. The right sidebar shows the repository's statistics and sections for `About`, `Releases`, and `Packages`.

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

IETF-Hackathon / ietf113-project-presentations Unpin Watch 3 Fork 0 Star 0

Public

<> Code Issues Pull requests Actions Projects Wiki Security Insights

main 1 branch 0 tags Go to file Add file Code

Commit History

Commit	Author	Message	Time
c25e108	eckelcu	add templates	on Dec 23, 2021 3 commits

Files

File	Commit	Time
README.md	Update README.md	3 months ago
hackathon-presentat...	add templates	3 months ago
hackathon-presentat...	add templates	3 months ago

README.md

IETF 113 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 [gh-pages branch](#). For the HTML format, a corresponding [pdf](#) is automatically generated from the HTML file by a [GitHub action](#).

About

Presentations of project results at end of Hackathon

Readme 0 stars 3 watching 0 forks

Releases

No releases published [Create a new release](#)

Packages

No packages published [Publish your first package](#)

<https://github.com/IETF-Hackathon/ietf113-project-presentations>

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

IETF-Hackathon / ietf113-project-presentations Unpin Watch 3 Fork 0 Star 0

Public

<> Code Issues Pull requests Actions Projects Wiki Security Insights

main 1 branch 0 tags Go to file Add file Code

eckelcu add templates c25e108 on Dec 23, 2021 3 commits

File	Commit	Time
README.md	Update README.md	3 months ago
hackathon-presentat...	add templates	3 months ago
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README.md

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About

Presentations of project results at end of Hackathon

- Readme
- 0 stars
- 3 watching
- 0 forks

Releases

No releases published
[Create a new release](#)

Packages

No packages published
[Publish your first package](#)

README

17 lines (10 sloc) | 2.35 KB

<> [icon] Raw Blame [icon] [icon]

IETF 113 project presentations

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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 user name 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](#).

Related-implementations

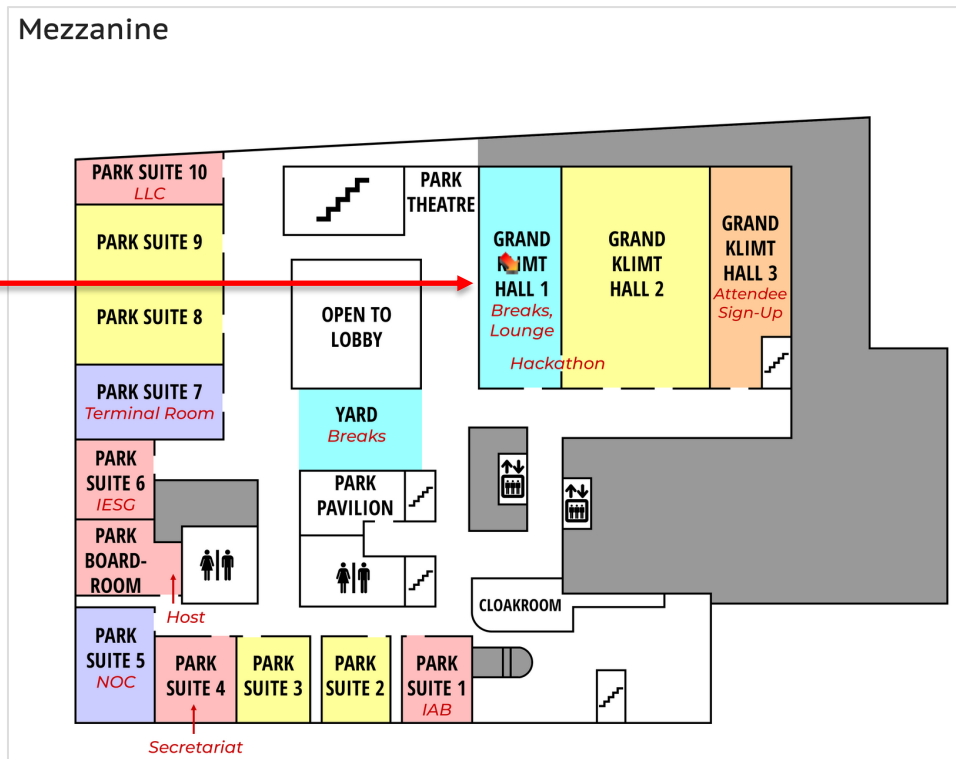
- For individual drafts, authors can edit the set of “Additional resources”
- For WG drafts and RFCs, the chairs can edit the additional resources

The screenshot shows the IETF Hackathon interface. At the top, there's a navigation bar with 'Groups', 'Documents', 'Meetings', 'Other', and a user profile 'eckelcu@cisco.com'. The main heading is 'Find Code Related to an Internet-Draft or RFC' for 'draft-eckel-edm-find-code-01'. Below this are tabs for 'Status', 'IESG evaluation record', 'IESG writeups', 'Email expansions', and 'History'. A 'Versions' section shows '00' and '01' with a timeline from 'Jul 2021' to 'Jan 2022'. The main content area is a table with details for the draft.

Document	Type	Active Internet-Draft (individual)
	Author	Charles Eckel
	Last updated	2022-03-09 (latest revision 2022-01-19)
	Stream	(None)
	Intended RFC status	(None)
	Formats	plain text html xml htmlized pdfized bibtex
	Additional Resources	- GitHub Repository - Example implementation in draft-ietf-shmoo-hackathon
Stream	Stream state	(No stream defined)
	Consensus Boilerplate	Unknown
	On Agenda	None

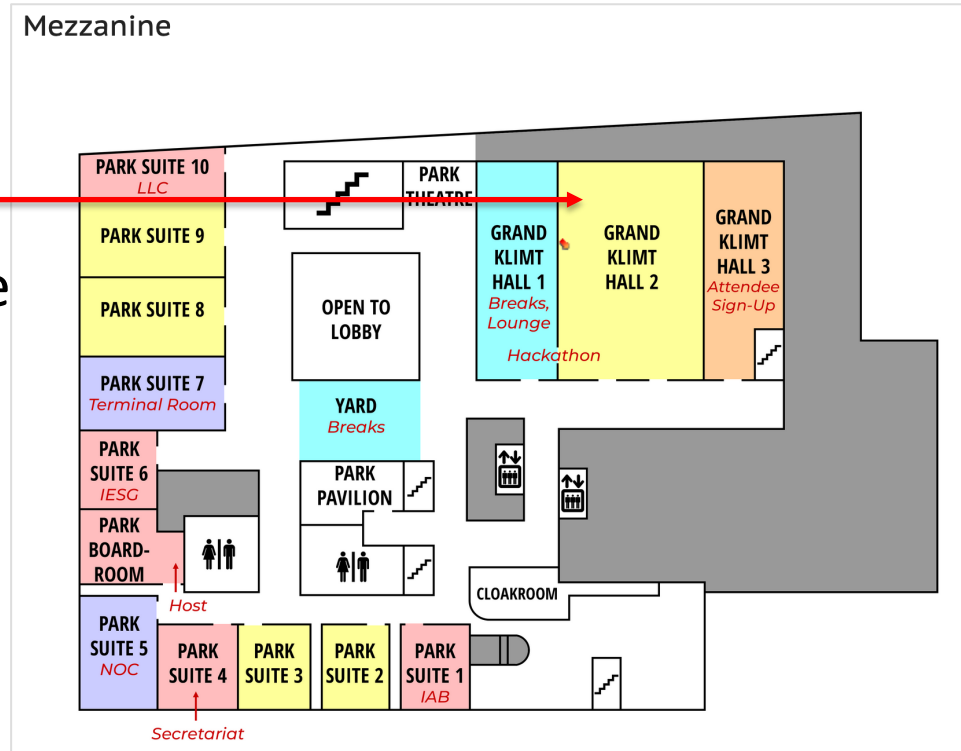
Hackdemo Happy Hour

- Share hackathon projects with IETF Community
- [Grand Klimt Hall 1](#)
- Monday 17:00 - 18:30
- [Register](#) your team
 - MUST REGISTER BY 12:00 MONDAY



Code Lounge

- [Grand Klimt Hall 1/2](#)
- Space reserved in IETF lounge all week
- Collaborate on running code
- [Schedule](#) time for your team



THANK
YOU!



Questions?



Let's Start Coding!

