











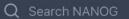






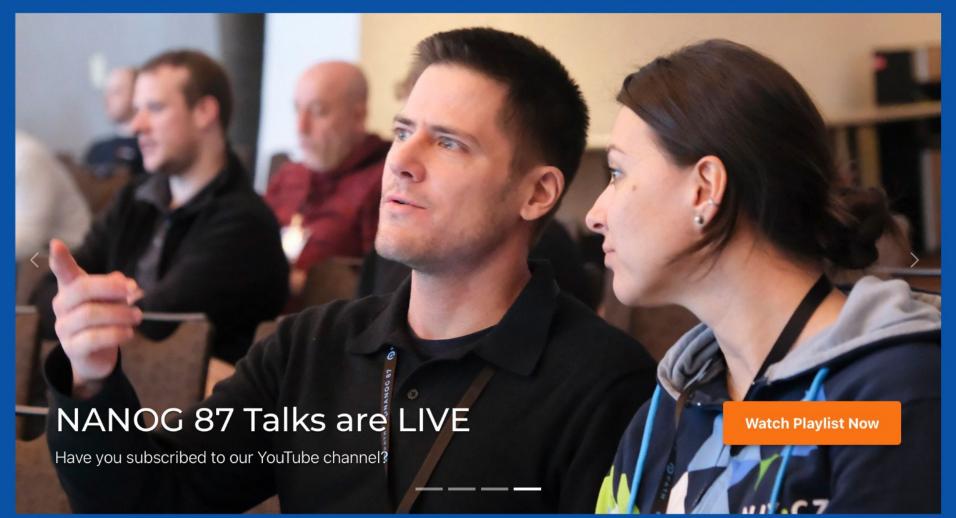
Events Program Outreach Members Community About Stories





Working together to build the Internet of tomorrow®

NANOG is a community of Network Operators, Engineers, and Internet Professionals dedicated to the ongoing advancement of an open, secure, and robust Internet.



Make a difference, become a **NANOG Member**

Become a Member

NANOG 86 sessions are now available on YouTube

Watch Now

Join the Conversation at community.nanog.org

Login Now





















Events Program Outreach Members Community About Stories



Q Search NANOG

Events

- Output
 Upcoming Events
- Past Events

STORIES

- About NANOG Events
- **NANOG Swag**

Sponsoring NANOG Events

- Value of Sponsorship
- Sponsors Resources

- Sponsorship Opportunities
- Sponsorship Agreement Terms and Conditions

Stories



The (Tech) Road Less Taken

Marlin Martes Shares How to Make the Impossible Possible

"What I've found most surprising is that most people don't have a straightforward path to tech either. Everybody has different backgrounds. If you can get over the shame...



Meet NANOG's New Board Chair

Q + A with Leslie Daigle

Chief Technical Officer (CTO) of Global Cyber Alliance and former Chief Internet Technology Officer (CITO) of Internet Society (ISOC), Leslie Daigle, helms the NANOG Boa...

STORIES

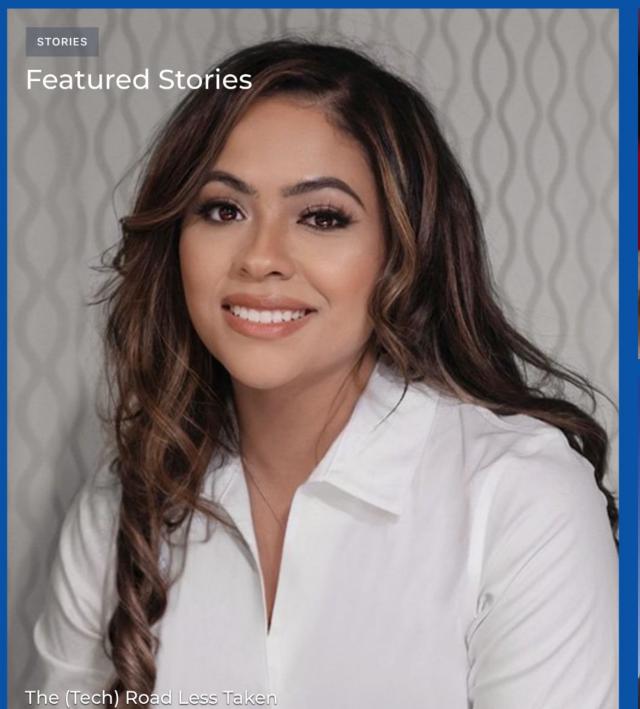
View all posts →

STORIES



community.nanog.org

Login Now















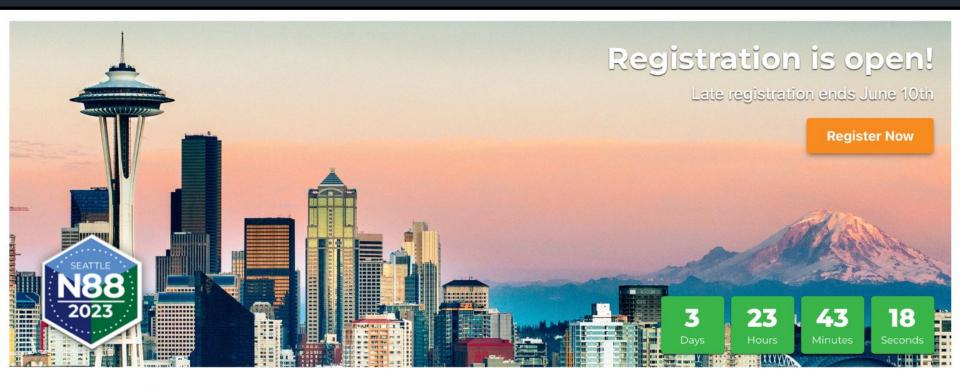




Events Program Outreach Members Community About Stories







View the NANOG 88 Agenda! **Learn More**

Hotel Information

Learn More

Events NANOG 88

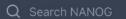
North American
Network Operators' Group

Overview : Agenda : Attendees : Letter of Invitation : Yoga Class : Register : Venue : Sponsors : Peering Forum : Socials : Hackathon : DNS Class : Sponsor FAQ : Surveys

NANOG 88 Seattle











View the NANOG 88 Agenda! **Learn More**

Hotel Information Learn More

Events NANOG 88

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NANOG 88 Seattle



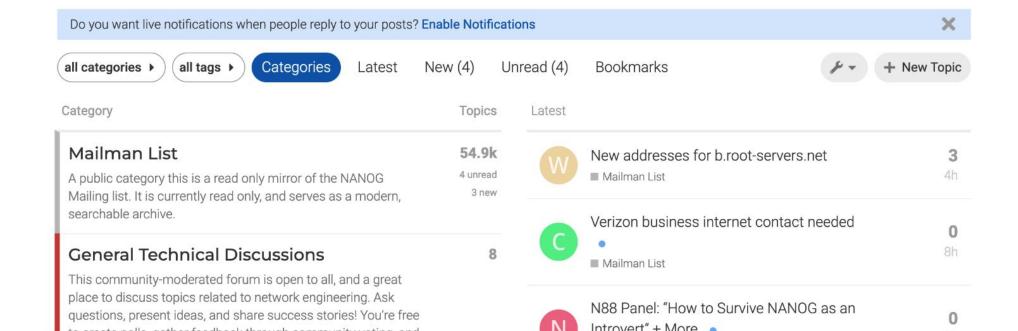








Welcome! The NANOG Community Forum is a digital space that inspires community building, fosters mentorship, and provides ongoing support for students and professionals in Internet technology. By joining the forum, you'll also have the opportunity to share your insights and provide feedback as we work together to build the Internet of tomorrow. By using this forum you are agreeing to abide by NANOG's Usage Guidelines, and Code of Conduct.



Community Forum

- Now in 1.0 release
- Several ways to login Use your NANOG, Google or LinkedIn accounts, or create an account directly on the forum.
- It can be accessed through a browser or as a mailing list.
- If you have made posts on the NANOG Mailing list, it will automatically sync with the email address used for login.
- There is read-only Mailman Mirror, focused Technical Forums, Affinity Groups, and more.
- If you would like a new Group created –send an email to webmaster@nanog.org







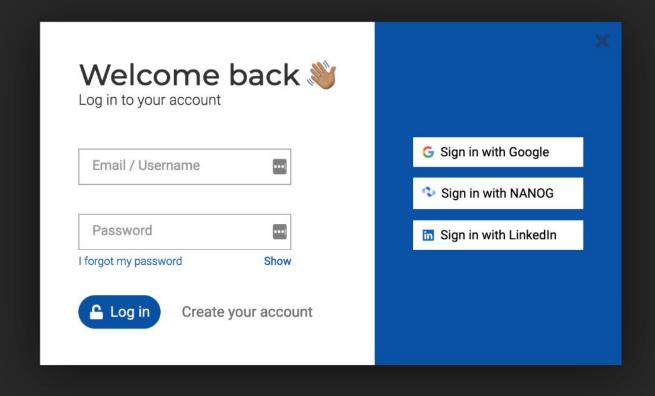


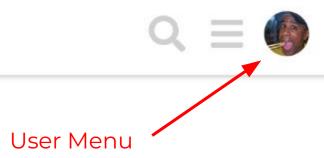
Welcome to NANOC

A NANOG Community-Forum account is required. Please create an account or log in to continue









12h

taff are also here to help if you need to reach a person.

y limit what new users can do. You'll gain new abilities (and

behavior at all times.

ow and **bookmark this personal message**. If you do, there



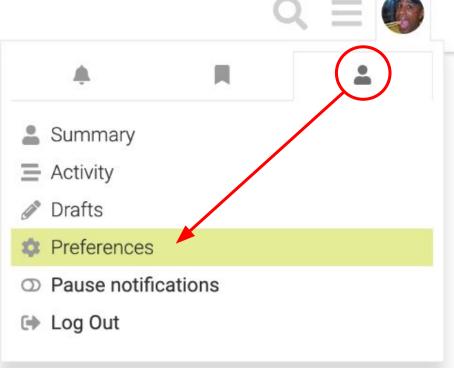






♠ Reply

12h welcome! endly staff are also here to help if you need to reach a person. nporarily limit what new users can do. You'll gain new abilities (and v you. nmunity behavior at all times. --- below and **moskmark this personal message**. If you do, there Reply views user





Categories

Users

Tags

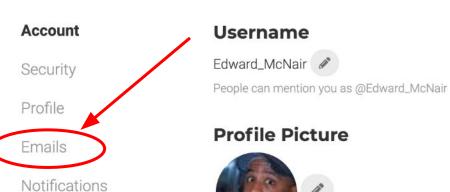
Interface





★ Expand









Webcal Keys **Associated Accounts**

Google edward@right-brain.com

Name

Security

Profile

Emails

Notifications

Categories

Users

Tags

Interface

Webcal Keys

Email

Email me when I am sent a personal message

always 🕶

Email me when I am quoted, replied to, my @username is mentioned, or when there is new activity in my watched categories, tags or topics

only when away $\,\,\overline{}\,\,$

We'll only email you if we haven't seen you in the last 10 minutes.

Include previous replies at the bottom of emails



☐ Include an excerpt of replied to post in emails

Activity Summary

When I don't visit here, send me an email summary of popular topics and replies

weekly 🕶

☐ Include content from new users in summary emails

Save Changes

Security

Profile

Emails

Notifications

Categories

Users

Tags

Interface

Webcal Keys

Notifications

Consider topics new when

created in the last 2 days ▼

Automatically track topics I enter

after 5 minutes 🔻

When I post in a topic, set that topic to

Tracking -

Notify when liked

First time a post is liked and daily -

Live Notifications

Enable Notifications

Note: You have to change this setting on every browser you use. All notifications will be disabled if you pause notifications from user menu, regardless of this setting.

Notification Schedule

☐ Enable custom notification schedule

Save Changes

Security

Profile

Emails

Notifications

Categories

Users

Tags

Interface

Webcal Keys

Categories



You will automatically watch all topics in these categories. You will be notified of all new posts and topics, and a count of new posts will also appear next to the topic.



You will automatically track all topics in these categories. A count of new posts will appear next to the topic.





You will be notified of the first post in each new topic in these categories.



You will not be notified of anything about new topics in these categories, and they will not appear on the categories or latest pages.

Security

Profile

Emails

Notifications

Categories

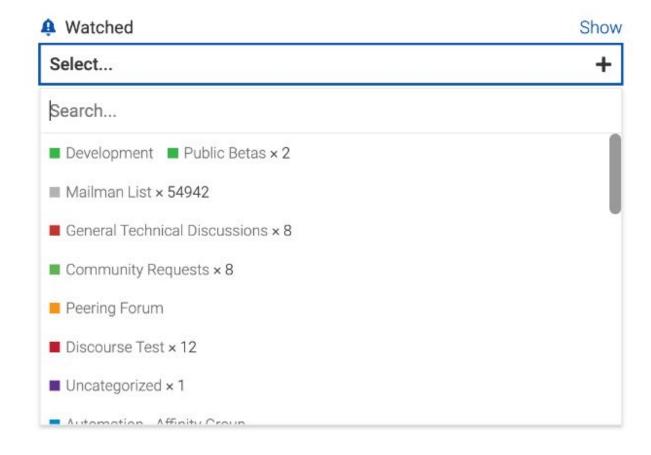
Users

Tags

Interface

Webcal Keys

Categories





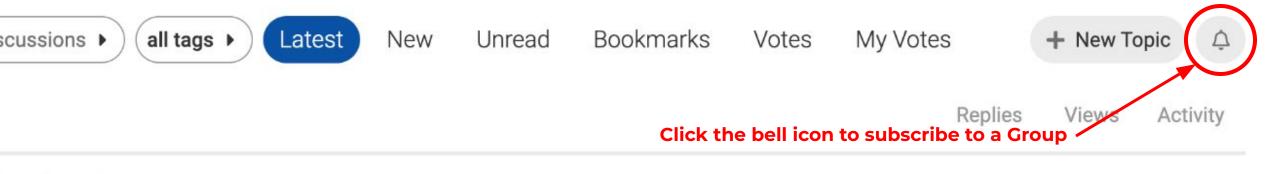
You will not be notified of anything about new topics in these categories, and they will not appear on the categories or latest pages.

General Technical Discussions

This community-moderated forum is open to all, and a great place to discuss topics related to network engineering. Ask questions, present ideas, and share success stories! You're free to create polls, gather feedback through community voting, and more. To post via email, use the address:

general@community.nanog.org

To interact via email



Technical Discussions category

rated forum is open to all, and a great place to discuss topics related to sk questions, present ideas, and share success stories! You're free to create hr... read more



13

Mar '21



31

1d





Do ISP's collect and analyze traffic of users?

■ Mailman List



Michael_Thomas

□ 17d

And maybe try to monetize it? I'm pretty sure that they can be compelled to do that, but do they do it for their own reasons too? Or is this way too much overhead to be doing en mass? (I vaguely recall that netflow, for example, can make routers unhappy if there is too much "flow").

Obviously this is likely to depend on local laws but since this is NANOG we can limit it to here.

Mike

4 Replies V











Dave_Phelps

☑ 17d

I think it's safe to assume they are selling such data.

https://www.techdirt.com/2021/08/25/isps-give-netflow-data-to-third-parties-who-sell-it-without-user-awareness-consent/

https://www.vice.com/en/article/dy3z9a/fbi-bought-netflow-data-team-cymru-contract 1









Matthew_Petach2

☑ 17d

1 / 23 May 15

May 15

13d ago



Do ISP's collect and analyze traffic of users?

■ Mailman List



Michael_Thomas

☑ 17d

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Mike

4 Replies V































Dave_Phelps

☑ 17d



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May 15

1/23 May 15

13d ago



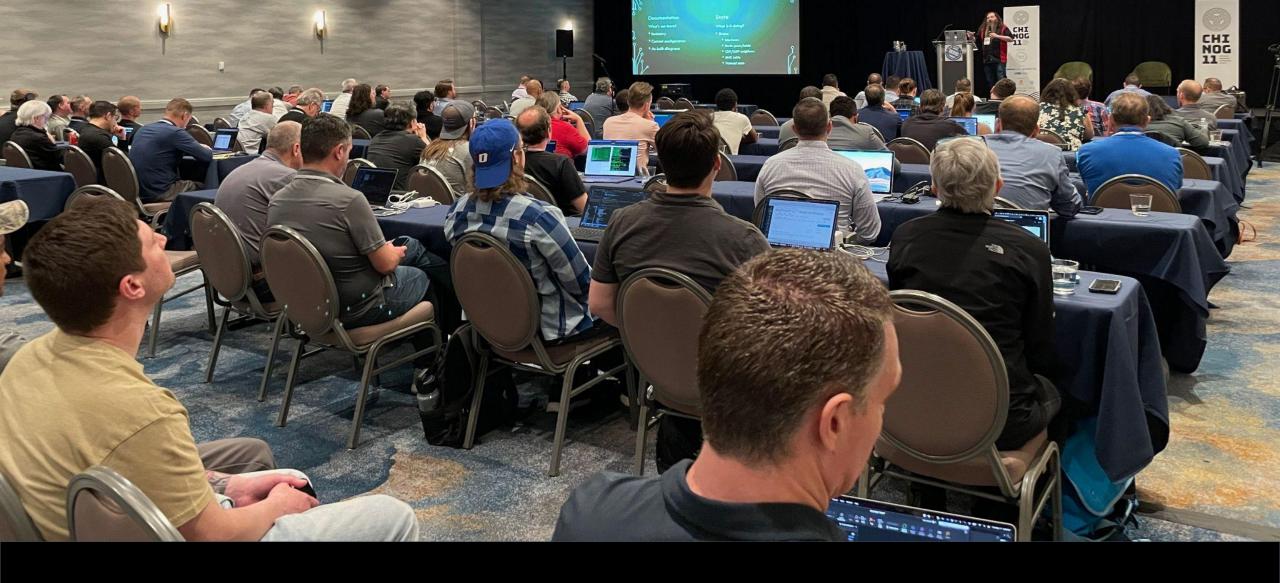


ABQNOG 01

ABQNOG 01

- This was the inaugural meeting of the Albuquerque Network Operators' Group
- Attendees ranged from local internet providers, students and representatives from local indigenous tribes.
- NANOG and ARIN attended to provide support for their first meeting.
- While there we had the opportunity to listen to the challenges facing indigenous tribes as they build community networks.





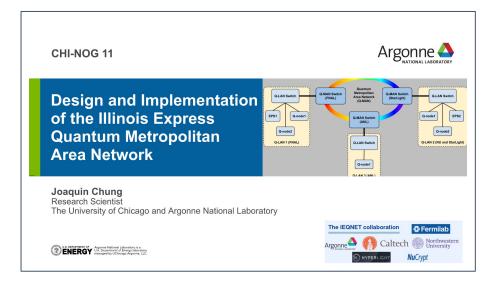
CHI-NOG 11

CHI-NOG 11

- First local NOG in the USA
- 11th annual full day conference in Chicago and the Midwest - May 11th 2023
- 102 attendees
- 10 vendor neutral presentations
- Keynote Highlighting the future of Quantum Optical Networking research in Chicago



https://chinog.org/



https://www.youtube.com/watch?v=usvNgqfbQ9Q





Conference Badges

- The board is considering the option of scanning badges
- Your privacy is our highest concern:
 - Attendees would have the option to opt out of having a QR Code on their badge.
 - QR codes would need to be small enough that they couldn't be scanned at a distance.
 - Attendees would have the option to select what information would be shared on their QR Codes.
- The board is seeking community feedback (feedback@nanog.org)





Why you should become a mentor?

According to Forbes:

- Mentees are promoted five times more often
- 87% of mentees feel empowered + have developed greater confidence
- 84% of Fortune 500 companies have mentoring programs, and 100% of Fortune 50 companies

Mentorship will help you:

- Clarify + reach your career goals
- Build your network
- Better understand the industry
- Get an unbiased perspective

nanog.org/outreach/nanog-mentorship-program/



NANOG Ombuds

Confidential support for our community

ombuds@nanog.org







Life Cycle of a Talk

EVENT CALENDAR	
June 26, 2023	CFP Reminder Announcement
July 24, 2023	CFP Reminder 2 Announcement
Aug. 27, 2023	DRAFT Presentation Slides Due
Sept. 11, 2023	Topics List Published
Sept. 25, 2023	Meeting Agenda Published
Oct. 9, 2023	In-Person Final Slides DUE
Oct. 15, 2023	On-Site Lightning Talk Submissions Open





Program Committee Tool

Program Committee Dashboard

Viewing the dashboard for NANOG 89

Reviewer

Mckay

The History and Future of

Whose Slide is it Anyway?

4837 Stealthy BGP Attacks

Ethernet - 50th Anniversary



Duratio

60

Type

General

Session

General

Session

Nogradi

Sustainability in the network

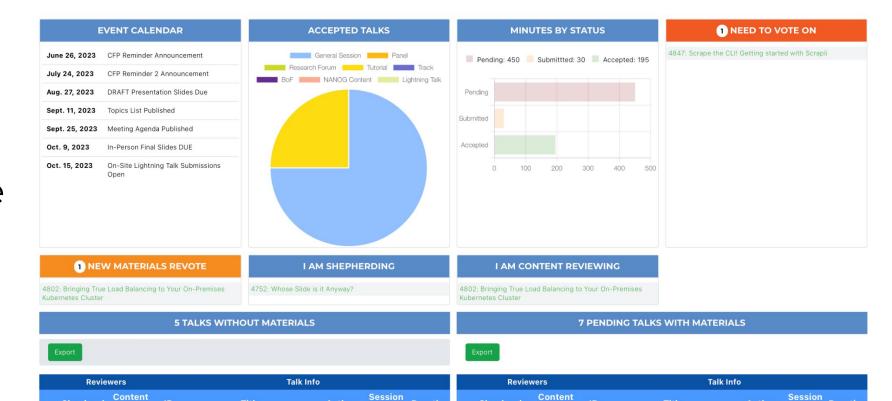
industry - overview and steps

Multi-Cloud Networking in

Public Cloud - Choose the right

NANOG 89 Summary:

- 22 talks in the hopper
 - 15 pending
 - 1 submitted
 - 4 accepted



Duration

30

Type

General

Session

Panel

General

Shepherd -

Steve Ulrich

Holmberg

Author

Mikael

Holmberg

Charles

Henry



4 Talks Already Accepted for N89

General Session:

- ASPA-based BGP AS_PATH Verification and Route Leaks Solution
- The complex reality of protecting BGP: Quantifying the impact of RPKI validation in ISPs and IXPs
- RPKI adoption and Routing Security in the North America & Caribbean

Tutorial:

 Bringing True Load Balancing to Your On-Premises Kubernetes Cluster



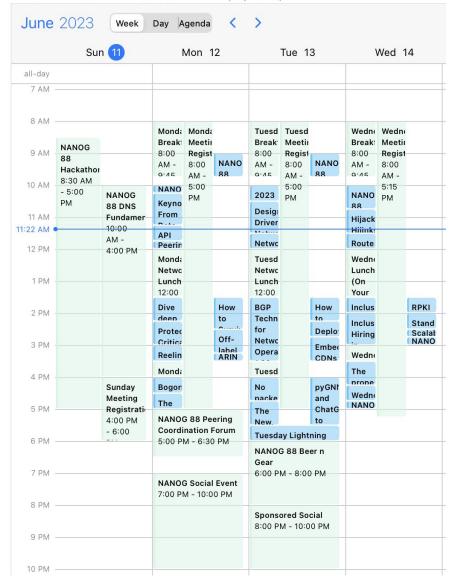
Agenda Builder

- Allows us to easily build the agenda with a drag and drop interface
- Future update coming to allow to more easily schedule multiple presentation locations in parallel



Agenda Builder

The Calendar is set to NANOG 88's timezone (US/Pacific)



Shepherd vs. Content Reviewer

- Shepherd your main point of contact on the Program Committee; works with you on initial reviews, provides feedback on content, and represents your talk to other PC members.
 - https://www.nanog.org/participate/process-submissions-proposal-review/
- Content Reviewer like a copy editor, they will look over formatting, check for typographical errors and make sure the slides adhere to NANOG standards
 - https://www.nanog.org/program/presentation-guidelines/

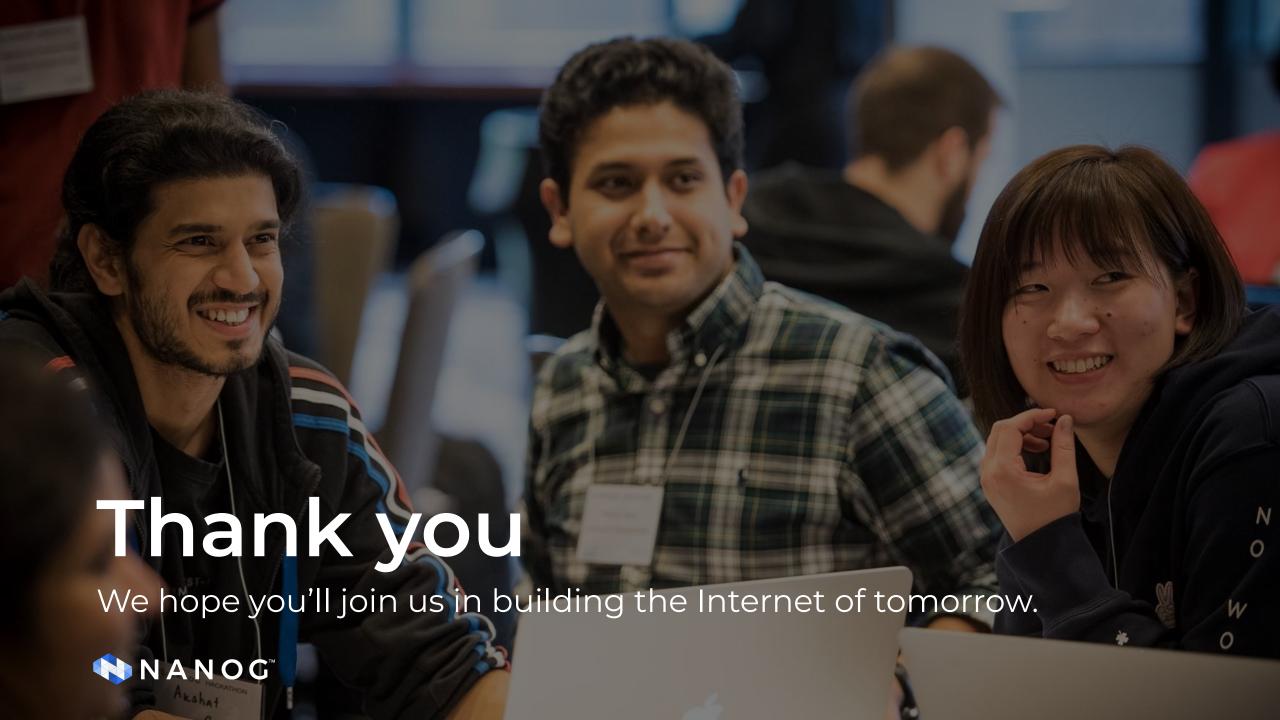


Getting Involved

- PC nominations open up every February
- We are all volunteers
 - Board appointed and self governing
- We have sub-committees
 - Keynotes
 - Tutorials and Tracks
 - Lightning Talks
 - Moderators
 - Data Analysis
 - Hackathon
- Interested in helping out? Come talk to us!

https://www.nanog.org/about/who-we-are/program-committee/







Q+A

