



Welcome to NANOG 90

Charlotte, NC

12-14 FEB 2024

 NANOG™

NANOG HACKATHON
Akshat



NANOG®

North American Network Operators' Group

Working together, to build the Internet of tomorrow ®



What is NANOG?

- We are a community-driven nonprofit organization.
- Our roots date back to 1987, when Merit Network was tasked with re-engineering and managing the NSFNET.
- NANOG's original charter was formed in 1994.
- In 2011, the NANOG community voted for independence from Merit Network.
- NANOG was the first, and is still the largest, Network Operators' Group.

What does NANOG do?

- Conferences that showcase innovative, educational content that aims to drive new solutions to the networking community's greatest challenges.
- Mentoring the next generation of networking professionals.
- Empowering those supporting Internet access in underserved communities across North America.
- Actively encouraging diversity, inclusion, and collaboration within our community.

Our community

13,000+ industry professionals and students.

900+ attend NANOG conferences.

200+ are first-time NANOG attendees.

20+ countries around the world represented.

NANOG Resources

- NANOG Mailing List:
<https://mailman.nanog.org/mailman/listinfo/nanog>
- NANOG Community Forum:
<https://community.nanog.org/>
- Conference presentations + tutorials:
<https://www.youtube.com/user/TeamNANOG/>
- Outreach:
<https://www.nanog.org/outreach/>
- Articles:
<https://www.nanog.org/stories/>

A photograph of two men in a meeting. The man on the left has a beard and glasses, wearing a maroon polo shirt. The man on the right has glasses and is wearing a light blue hoodie. They are both looking intently at a laptop screen. The background is slightly blurred, showing other people in a meeting room.

Network Operators' Groups

Come for the opportunities, stay for the community.



What's a NOG?

- Community organizations committed to supporting local and regional Internet professionals.
- Guided by the principle of an open exchange of knowledge and expertise.
- Formed by network operators, engineers, and other experts in the Internet community.
- Efforts that improve the quality and availability of the Internet within their regions.

What's special about NOGs?

- They're driven by individuals, not corporations – all are equal.
- They're educational – technical presentations are available to all.
- They're local – designed to focus on the needs within their communities.
- They're neutral – non-commercial, and non-political.

How can you benefit from NOGs?

- Learn current best practices from experienced industry professionals.
- Obtain knowledge and training on the latest Internet technologies.
- Discuss current issues and challenges faced by the community.
- Form strategic business relationships.
- Form crucial peering arrangements.

Industry Job Facts

- 383,000 people are employed in the field of network operations.
- Yet there are currently 30,863 unfilled network engineering jobs on indeed.com.
- It will increase by an additional 19,000+ each year.
- The industry competes with 700,000 open tech jobs.

A photograph of a conference room. In the foreground, several people are seated at tables, looking towards the center. A man in a white shirt and blue jeans stands in the middle ground, smiling and looking towards the right. Behind him, a man in a blue t-shirt with "#fiberiscom" on the back is seen from behind. In the background, two other men are standing and talking. The room has large windows and a professional atmosphere.

NANOG Governance

How NANOG is run



Board of Directors



Leslie Daigle
Board Chair



Vincent Celindro
Vice Chair



Michael Costello
Treasurer



Steve Feldman
Secretary



Cat Gurinsky
Member



Dave Siegel
Member



Stevan Plote
Program
Committee Chair

Staff



Darrieux "Dé" Harvey
Meeting + Events
Director



Valerie Wittkop
Program Director



Claudia Bristol
Controller + HR



Leigh Brooks
Senior Designer



Elizabeth Drolet
Marketing Content
Creator



Greg Newman
Software Craftsperson



Shawn Winstead
Bus. Development
Specialist

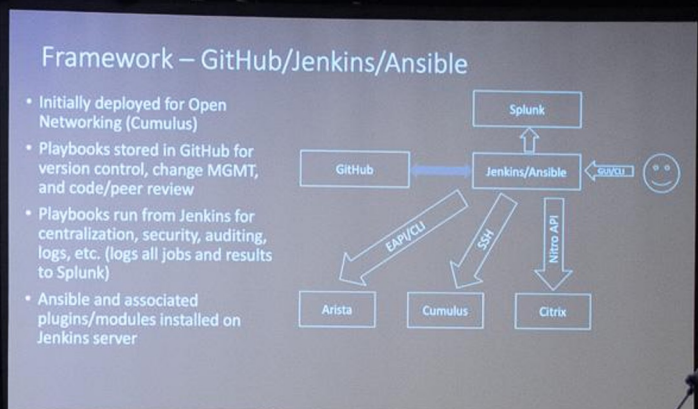
NANOG Committees

- Program Committee (standing)
- Audit Committee
- Compensation Committee
- Diversity, Equity + Inclusion Committee
- Education Committee
- Elections Committee
- Hackathon Committee
- Mentorship Committee
- Scholarship Committee

NANOG Committee Appointments – this week!

- 7 committees need volunteers
- Meet + Greet with Board Members during Tuesday Break
- Submit your candidate form by 9pm Tuesday night
 - Open to all NANOG members
- All the details can be found here:
 - <https://www.nanog.org/members/elections/committee-nomination-process/>

NANOG 75
SAN FRANCISCO



Program Committee

The "Heart" of the NANOG Experience



Program Committee

- The Program is the very heart of NANOG.
- Made up of industry professionals, the PC is selected by the board.
- The PC self organizes and selects its own leadership.
- The PC reviews and selects talks submitted by NANOG's community to curate a program of the highest possible quality and relevance.

Program Committee Updates

In an effort to better serve our community, the PC has several sub-committees:

- Keynote Speakers
- Moderators
- Lightning Talks
- Tutorials & Tracks

This allows committee members with various types of expertise to focus their knowledge on specific areas important to the development of NANOG programming.

A woman with glasses and a light blue quilted jacket is standing and speaking into a microphone. She is smiling and looking towards the right. In the background, several other people are seated at tables, some looking towards the speaker. The setting appears to be a conference or workshop. The text "Mentorship Program" is overlaid in white on the image.

Mentorship Program

Mentorship Program

- Key to building the "Internet of tomorrow" is to engage and inspire those who will build tomorrow's Internet.
- Mentorship is an essential component of professional development.
- Mentees in our program will have the opportunity to be guided by seasoned industry professionals.
- Mentors and mentees will be paired at NANOG conferences, create a personalized mentorship program to help the mentee achieve their goals.

A group of ten diverse individuals are posed for a photo in a conference room. They are arranged in two rows, with some standing and some sitting at a round table. Many are wearing lanyards with NANOG identification badges. One person in the front row is holding up a black t-shirt with a purple and white geometric logo and the text 'NANOG 85 MONTREAL'. The background shows a typical conference room setting with a patterned carpet and recessed ceiling lights.

Diversity, Equity + Inclusion Programs

Pursuing a more inclusive Community

To support our efforts of diversity, equity and inclusion. NANOG has done the following:

- Partnered with a DEI consulting firm to provide independent Ombuds support to our community.
- Ombuds are onsite during events and can be reached via email at anytime. In addition they provide reports to board and community on our DEI progress.

NANOG Ombuds

Confidential
support for our
community

ombuds@nanog.org





DEI Activities at NANOG Meetings

To support our efforts of diversity, equity and inclusion, the NANOG DEI Committee has done the following:

- Created table topics for networking at lunches
- Solicit DEI speakers, with follow-up at a DEI lunch
- Plan Women in Tech mixers
- Promote various affinity groups



NANOG 90 Charlotte

Program Highlights



General Session + Tutorials



NANOG 90 has 33 talks on topics including:

- Automation (multiple)
- BGP
- RPKI (multiple)
- Network Timing
- Monitoring
- Python, Go and Rust
- Coherent Optics

Tutorials Every Day!

- Monday
 - Traffic Engineering
- Tuesday
 - Google gNOI Operation
- Wednesday
 - WhiteBoarding

NANOG 90 Keynotes



Abstract Ponderings: A 10-Year Retrospective

Rob Shakir - Google

**Monday 10:15 AM
Symphony Ballroom**



A Brief History of the Internet in North Carolina

Mark Johnson - Independent

**Tuesday 10:00 AM
Symphony Ballroom**



Get Social!

MONDAY

- Networking Lunch
- Peering Coordination Forum
- NANOG Social

TUESDAY

- Pickleball (weather permitting)
- Diversity, Equity, + Inclusion Lunch
- Networking Lunch
- Beer n' Gear
- Sponsored Social

WEDNESDAY

- Pickleball (weather permitting)

Get involved on a broader scale

Participating on a broader scale helps ensure our future generations will get to enjoy the same benefits you have.

Ways to get involved at NANOG:

- **Vote:** Become a member to help shape NANOG's future.
- **Mentor:** The next generation of network engineers.
- **Teach:** The best way to reinforce your knowledge is to teach others.
- **Present:** Share your knowledge and experience with others.
- **Evaluate:** Serve on the Program Committee to help shape the NANOG program.
- **Sponsor:** Support NANOG's education and outreach programs, meetings and events.

A photograph of three people at a conference. On the left, a man with a beard and long hair is smiling. In the center, a man in a plaid shirt is looking towards the camera. On the right, a woman with dark hair is smiling. They are gathered around a laptop. The background is slightly blurred, showing other people and a conference setting.

Thank you

We hope you'll join us in building the Internet of tomorrow.

