



#### Welcome to Hollywood!

- It's nice to be back in the Los Angeles area. Our last conference in the area was NANOG 44 (8 years ago)
- Our last Hollywood event was a NANOG on the Road
   event in 2014

#### **Fun Facts about Hollywood**

- When a person is nominated for a square on Hollywood Blvd, a benefactor must also pay \$40,000 for the star.
- Hugh Hefner encouraged a group of nine other donors to raise \$250,000 to refurbish the Hollywood sign.
- Ironically, Walt Disney the creator of Mickey, was actually afraid of mice.
- Muhamad Ali Hollywood Star Is Not on the Ground, it's on a wall in the Dolby Theatre.
- Over 10 million tourist visit Hollywood Blvd each year.



#### **NANOG 2022 Elections**

- You must be a NANOG Member in good standing to vote.
- Voting begins at 5:15pm PDT Tuesday, 18-Oct and ends at 12:00 PDT Wednesday, 26-Oct.
- Candidates will be notified after the election has concluded, followed by members, and then the community.
- If you are not a Member, and you wish to vote, you have until 11:59 pm tonight to become a member (Pacific).

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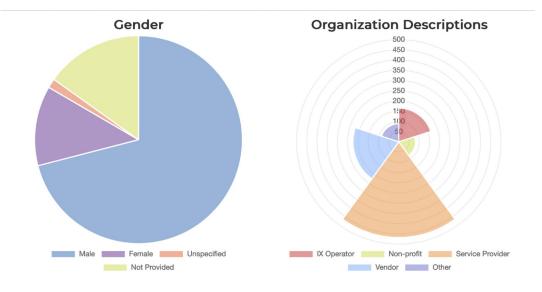
#### **Conference Statistics**

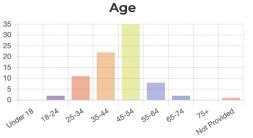
In-Person Attendees*	892
Member	265
Non-Member	618
Student	9
First NANOG	256
Virtual Attendees	120
First NANOG	
Total Attendees	1030
* Don't be concerned if the categories below do not add up to the total number of attendees. It is possible that a	

registrant might fit more than one category.

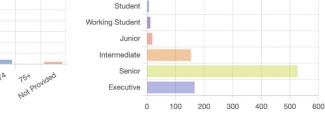


#### **Conference Statistics**











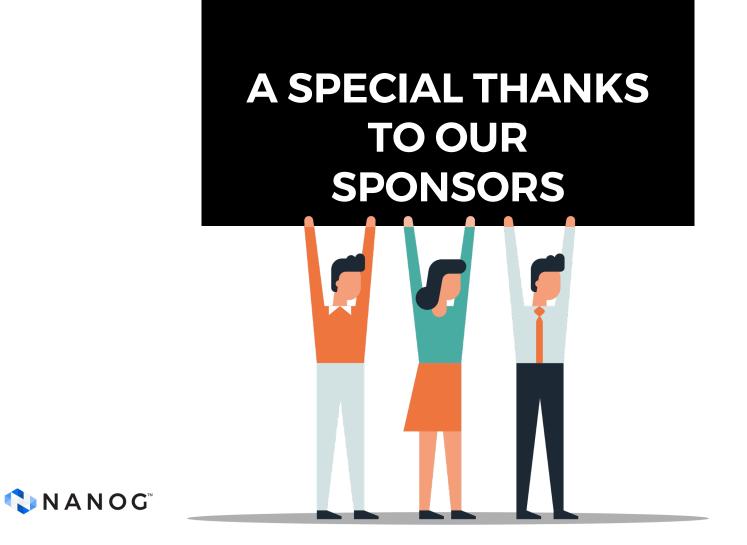
## **Conference Statistics**

View the statistics all week long on our Meeting Statistics page

https://www.nanog.org/events/ nanog-86/meeting-stats/







#### **Host Sponsor**

# NETELX



#### **Diamond Sponsor**

# TOOL&DIE COMPANY

EST.2018



#### **Platinum Sponsors**









#### **Gold Sponsors**













#### **Connectivity Sponsor**





#### **Peering Sponsors**







#### **Monday Breakfast Sponsor**





#### **Monday Lunch Sponsors**









#### **Monday Break Sponsors**







#### **Tuesday Breakfast Sponsors**





#### Women In Technology Lunch Sponsor





#### **Tuesday Lunch Sponsors**









#### **Tuesday Break Sponsors**









#### Wednesday Break Sponsors





#### **Sunday Night Social Host**





#### **Sunday Night Social Co-Hosts**





#### **Monday Night Social Hosts**







#### **Tuesday Night Social Hosts**







#### **Virtual Meeting Fellowship Sponsor**





#### **Service Sponsors**











#### **Hackathon Host Sponsor**





#### **Hackathon In-Kind Sponsors**







## **NANOG Ombuds**



**Future Cain** CEO of Future of SEL



**Vince Brantley** CEO of Veritas

<u>N A N O G</u><sup>\*\*</sup>

#### **Code of Conduct**

#### We will not tolerate the following:

- Aggressively pushing your own services, products, or causes.
- Distribution or consumption of alcohol at NANOGsponsored in-person venues (alcohol not served by hotellicensed providers).
- Audio or video recordings of the few sessions where such recording is not permitted.



## Code of Conduct (Cont.)

#### We will not tolerate the following:

- Offensive verbal comments or physical contact because of sex, sexual orientation, gender identity, gender expression, age, disability, physical appearance, personal appearance, race, color, national origin or religion (or lack thereof).
- Sexual images of any kind, displayed in public spaces.
- Deliberate intimidation, stalking, threatening, or following.

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## Code of Conduct (Cont.)

We will not tolerate the following:

- Harassing photography or recording of any kind.
- Sustained disruption of a presentation or other event.
- Inappropriate physical contact.
- Unwelcome sexual attention.

**N A N O G**<sup>\*\*</sup>

#### **Code of Conduct (Cont.)**

We will not tolerate the following:

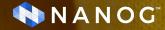
- Engaging in any activity that is illegal, or violates NANOG's or its sponsors' contracts with venues or contractors.
- Demeaning or disruptive behavior or speech.



## NANOG Ombuds

Confidential support for our community

ombuds@nanog.org





### **Host Sponsor**

**Ryan Planchart** NETFLIX

# NANOG 86 Conference Opening

Ryan Planchart Netflix Open Connect

October 17, 2022 Hollywood, California

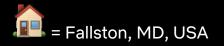


#### \$ id -F

#### **Ryan Planchart**

rplanchart [at] netflix.com

he/him/his



### Netflix Open Connect since 2014

2014: Network Engineering
2018: Network Architecture
2020: Engineering Manager

Comcast before that
 Core Network Operations





#### Netflix Open Connect: It's about.. connecting

OCEAN

NDIAN

OCEAN

ARCTIC

Investing in ISP partnerships Netflix Partner Portal Service Management Team

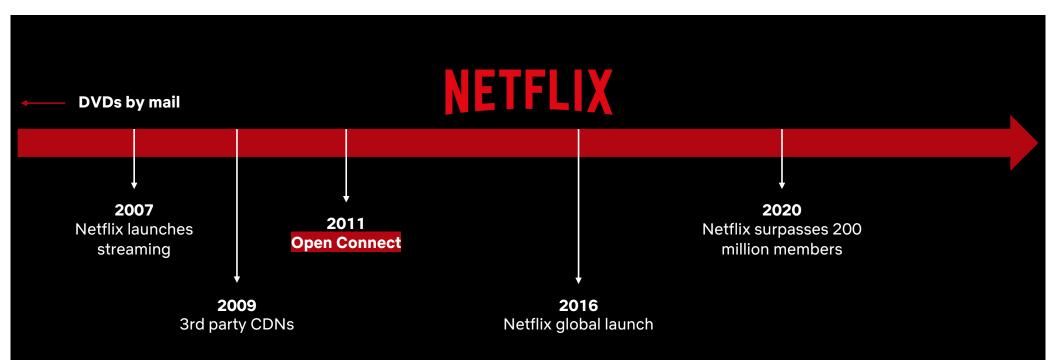
Investing in emerging talent Netflix college internships and new-grad programs

#### **Investing in NANOG**

NANOG Education Committee (Kevin Epperson) NANOG on the Road (Dekia Blackmon) Sponsoring NANOG 86 (hi)

TELEPHONE WIRES AND RADIO UNITE TO MAKE NEIGHBORS OF NATIONS





20K+ CDN Servers (OCAs) 170+ Countries 1M+ Requests per Second

#### Open Connect: The Netflix CDN Thousands of Open Connect Appliances (OCAs) embedded directly into ISP networks all over the world (all provided free of charge)



#### Open Connect: The Netflix CDN 98 managed peering locations (PoPs) with a fleet of thousands of OCAs

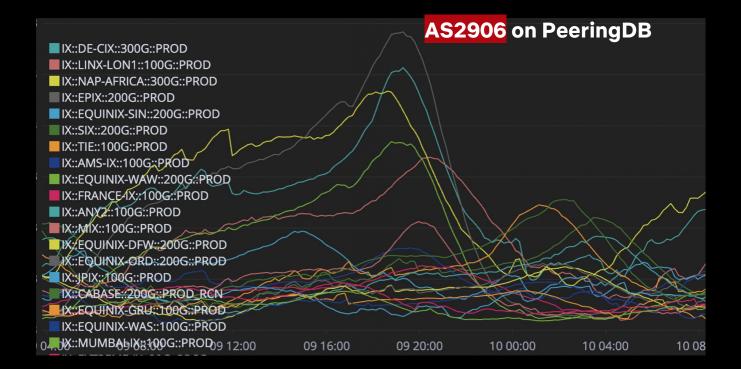


^ Dallas, TX

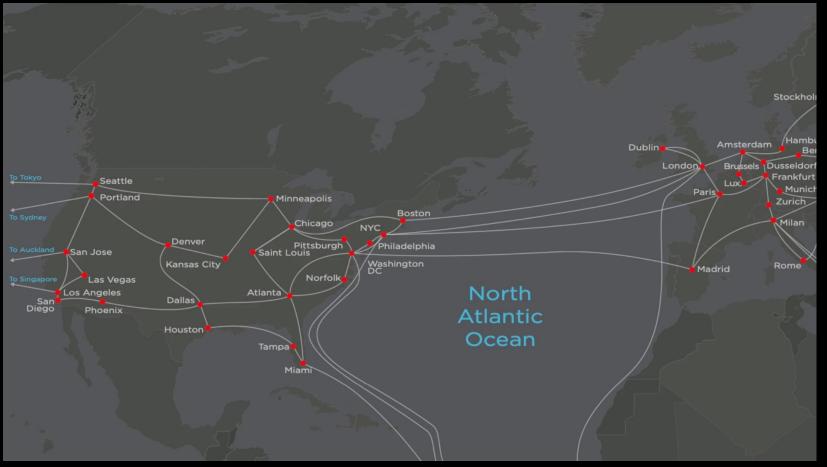
#### Open Connect: The Netflix CDN The most efficient CDN caches in the world



#### Open Connect: The Netflix CDN Peering on over 100 Internet Exchange Points (IXPs)



#### Open Connect: The Netflix CDN Private, fully redundant, multi Tbps global backbone







### **Program Overview**

**Cat Gurinsky** NANOG Program Committee Chair

### **Program Notes**

- 24 peer-reviewed presentations, including keynotes
- 24 members of the NANOG Program Committee

   Moderating program sessions and networking sessions
   Self-governing



### **Program Committee Members**

Cat Gurinsky - Chair Apple

Elizabeth Culley - Vice Chair Comcast

Anna Valsami - Secretary

Melchior Aelmans - Member Juniper

Kam Agahian - Member Oracle

Aaron Ali Atac - Member Akamai Technologies

Jeff Bartig - Member Internet 2

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Tom Beecher - Member Yahoo

Jason Bothe - Member Moody's Corporation

Mark Buell - Member Internet Society

Mikael Holmberg - Member Extreme Networks

Bryan Jong - Member Bigleaf Networks

John Kristoff - Member NETSCOUT

Alex Latzko - Member Deft.com Marlin Martes - Member Amazon Web Services

Fearghas McKay - Member FLEXOPTIX GmbH

Steve Meuse - Member Kentik

Stevan Plote - Member Plote & Associates

James Shank - Member Team Cymru, Inc.

Alankar Sharma - Member Comcast NBC Universal

Mike Starr - Member

Steve Ulrich - Member Arista Networks

Michael Voity - Member University of Vermont

Chris Woodfield - Member Twitter

### **Program Tips**

- Virtual Chat How-To:
  - $\odot$  Use the "Chat" tab to talk with other attendees
  - $\odot$  Use the "Q+A" tab to ask a question during a presentation
    - Even in person attendees can submit questions this way!
  - $\circ$  Use the "Help" tab to receive technical support
- Agenda + Presentation Materials



### **Program Notes**

- Newcomers Orientation (breakfast)
  - We recorded this; if you were not able to attend in person, check out our YouTube channel next week for the video.
- Main Breakfast & Lunches every day

   Ray Dolby Ballroom Salons 4-6
   NOTE: Wednesday lunch is on your own
- Tuesday Women in Tech open to all attendees
  - Hollywood Studio ABC
  - Speaker: Hang Black Embrace your Edge
- **N A N O G**<sup>\*\*</sup>

### **Submit Lightning Talks!**

- Reminder Lightning Talks are **in person**
- Two lightning talk time slots this meeting:
   5:45pm-6pm PDT on Tuesday AND Wednesday
- Submit abstracts by 3:30 PM PDT the day before you wish to speak
- PC will send notifications the evening prior
   Include cell # in profile to be notified via text!
- Final slides due 12:00 PM PDT day of presentation

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### **NANOG 86 Surveys**

- Surveys online @ <u>https://www.nanog.org/surveys</u>
  - New Format since N85: simple/clean/quick
    - Daily Surveys available
      - Complete a daily survey + enter drawing for a \$100 gift card
    - Hackathon Survey available
  - Surveys close Friday, October 21st, 2022



**†)** 

#### NANOG 85 Monday Survey

Please provide an overall quality rating for the presentations you attended

#### NANOG 85 Conference Opening

 $\bigcirc$  Thumbs Up

🔿 Thumbs Down

🔘 Did Not Attend

Comments/Feedback for Speaker(s)





# **Enjoy our Program**

NANOG