Conference Opening

Tina Morris
NANOG Board Chair
Thanks for joining us at the NANOG 82 Virtual Meeting
Welcome to NANOG 82 Virtual

- 450+ Registered Attendees
- 400+ Complimentary Registrations
- 100+ NANOG Members
“The Evolution of the Interplanetary Internet”

Join us Tuesday, June 15 @ 12:30 pm Eastern/US to watch Vint Cerf's Keynote Presentation!
A SPECIAL THANKS TO OUR SPONSORS
Thanks to our NANOG 82 Virtual Host
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NANOG 83 Update

- We are planning a hybrid (in-person + virtual) meeting for NANOG 83
- We will be monitoring CDC guidelines
- The safety of our community is our number one concern
NANOG82 - Welcome!

avi@kentik.com
Proud to host!

- Welcome to the virtual (everywhere) NANOG 82!
- First time host, long-time participant
- What is NANOG about?
  - Community and Education
  - Formal and Informal
Kentik Background: Network Observability

TELEMETRY
TRAFFIC + BGP + SYNTHETICS

NETWORKS
CLOUD, INTERNET, ON-PREM

100s
SERVICE PROVIDERS

BILLIONS
INTERNET MEASUREMENTS

100s
ENTERPRISE CUSTOMERS

TRILLIONS
OF FLOWS/DAY

Logos of various companies: Dropbox, IBM, Equinix, Zoom, GTT, Major League Baseball, Cogent, Netskope, Verizon Media, KDDI, eBay, Box.
NANOG (and the internet) are diverse!
NETWORK OBSERVABILITY
Has gotten harder!

- When will we be at capacity?
- Is the network the problem?
- What's driving latency in the east?
- Are we under attack?
- What should I be performance testing?
- What will my cloud costs be in...?
Great Network Observability

Kentik provides observability across all networks - and suggests and makes action easy

See All Networks
Collect All Telemetry
Query with Context
Ask Anything
Get Insights
Take Action
The Kentik Network Observability Cloud

Products:
- Core
- Edge
- Synthetics
- Protect
- Cloud
- SP Analytics

Platform:
Kentik Network Observability Cloud
Ingest | Enrich | Store | Query | Integrate | Learn

Telemetry & Data Pipeline:
Flows & VPC Flow Logs
Routing
Synthetics
Hosts
SNMP
Streaming Telemetry

+ Context: BGP, Geo, DNS. User, App, k8s, Cost, Threat, ...
What’s New @ Kentik

- Performance testing
- Cloud
- Network cost workflows
- Terraform, Ansible, Python SDK
- White label portal
- BGP monitoring
- New Relic, Prometheus, Influx, Splunk, Kafka integrations
Thanks + Enjoy!

And see you at NANOG 83 in Minneapolis

avi@kentik.com
Program Overview

Cat Gurinsky
NANOG Program Committee Chair
Program Notes

- 13 peer-reviewed presentations, including keynote
- 26 members of the NANOG Program Committee
  - Moderating program sessions and networking sessions
  - Self-governing
Program Notes

- Virtual Chat How-To:
  - Use the “Chat” tab to talk with other attendees
  - Use the “Q+A” tab to ask a question during a presentation
  - Use the “Help” tab to receive technical support

- Agenda + Presentation Materials

- Newcomers + WiT + BoF Networking Sessions on Zoom
Looking back: Virtual Improvements

• This is our 4th virtual conference (N79, N80, N81, N82)
• Lessons learned & improvements made:
  ○ Pre-recordings are the way to go whenever possible
  ○ Pre-defined speaker introductions
  ○ Running scripts for moderators
  ○ Talking points for moderators
  ○ New features in the PC tool to support the above
• Come back to our community meeting Wednesday for more details!
Lessons Learned Continued

- Submit early! Provide slides early!
- Rolling submissions also means rolling acceptances
  ○ Pre-recorded talks allow us to better time the agenda
- We’ve formally split out the “shepherd” and “content reviewer” roles.
  ○ Shepherd's still guide you through the whole process from start to finish.
  ○ Content reviewers ensure your slides have good formatting, are free of typos and assist in collecting and creating your speaker introduction information.
- For more information, again please attend Wednesday's community meeting
Program Committee Members

Cat Gurinsky - Chair
Apple
Ognian Mitev - Vice Chair
Charter Communications
Elizabeth Culley - Secretary
Comcast
Michael Costello - Hackathon Committee
Netflix
Kat Ronay - Outreach Committee
Microsoft
Melchior Aelmans - Member
Juniper
Aaron Ali Atac - Member
Akamai Technologies
Jeff Bartig - Member
Internet 2
Tom Beecher - Member
Verizon Media Group
Omkar Bhalekar - Member
Tesla
Jason Bothe - Member
Moody’s Corporation
Hao Fu - Member
Salesforce
Tom Kacprzynski - Member
Oracle
John Kristoff - Member
NETSCOUT
Alex Latzko - Member
ServerCentral Turing Group
Marlin Martes - Member
Amazon Web Services
Steve Meuse - Member
Kentik
Stevan Plote - Member
Plote & Associates
Jingjing Ren - Member
Netflix
Matt Ringel - Member
Subspace
Alankar Sharma - Member
Comcast NBC Universal
Yordan Sutanto - Member
Schlumberger
Anna Valsami - Member
Subspace
Michael Voity - Member
University of Vermont
Edward Winstead - Member
Internet Systems Consortium
Chris Woodfield - Member
Twitter
NANOG 82 Surveys

• Surveys online
  • [https://www.nanog.org/surveys](https://www.nanog.org/surveys)
    • Daily Surveys available for Monday, Tuesday, Wednesday
    • Hackathon Survey available

• Surveys close Friday, June 18, 2021
Enjoy the program