

NANOG 32

ARIN XIV



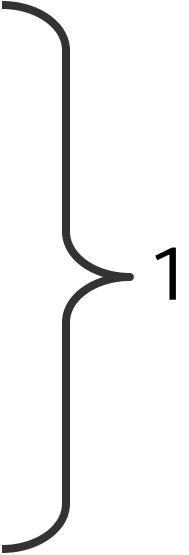
Welcome !

Meeting Stats

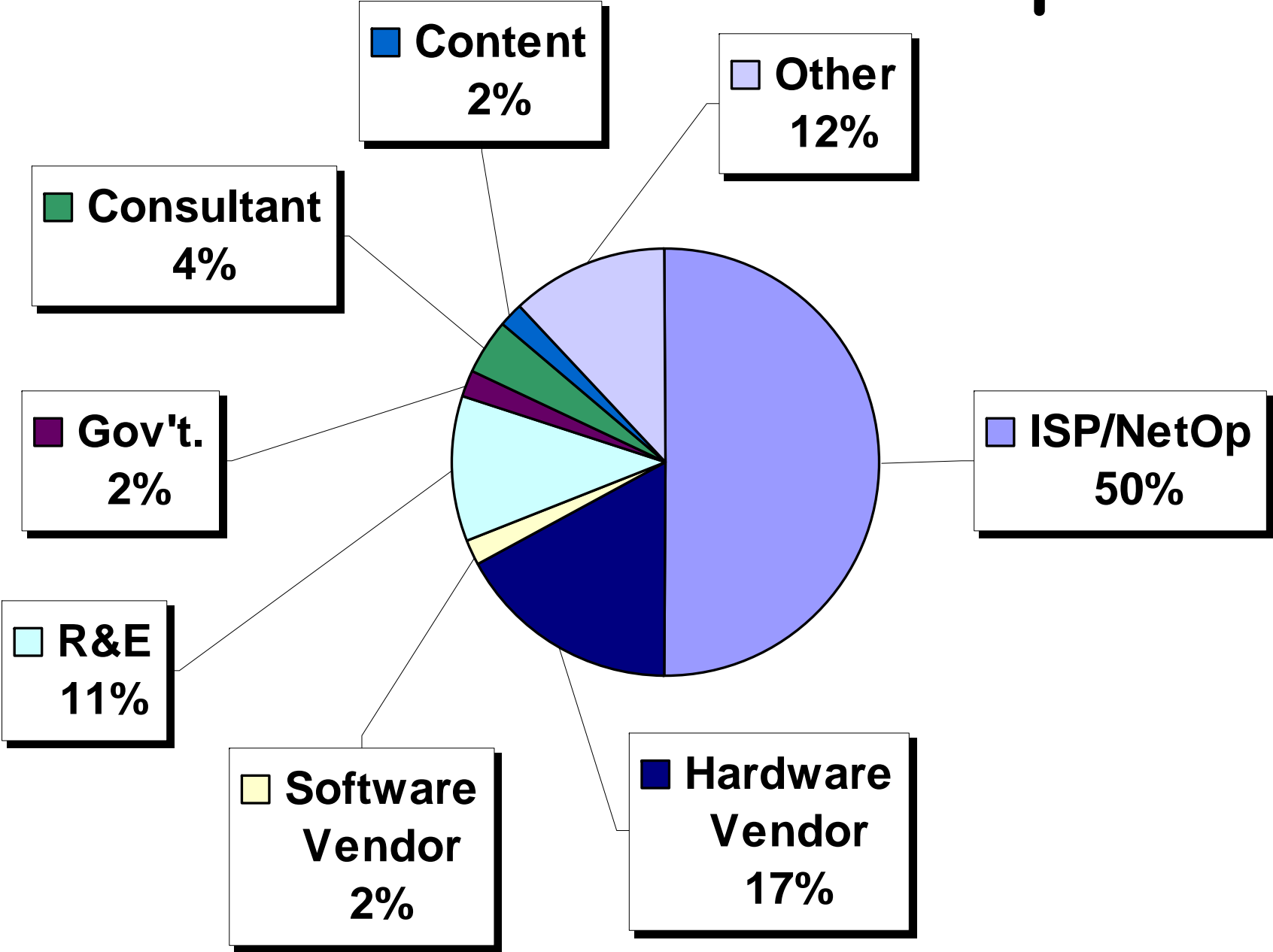
	Chicago	Miami	SF	Reston
Attendance	505	488	583	600
Women	6%	10%	8%	8%
Men	94%	90%	92%	92%
NAPs represented	8	7	10	13
Asia-Pac, Africa	12	27	21	39
S., Central America	0	1	3	2
Europe	8	33	26	28
Total Non-US/Canada	24	61	50	86

Countries Represented

- Japan 27 attendees
- Germany 10
- UK 8
- Korea 5
- Netherlands 4
- Australia 3
- France 2
- S. Africa 2
- Czech Repub. 2
- Brazil 2

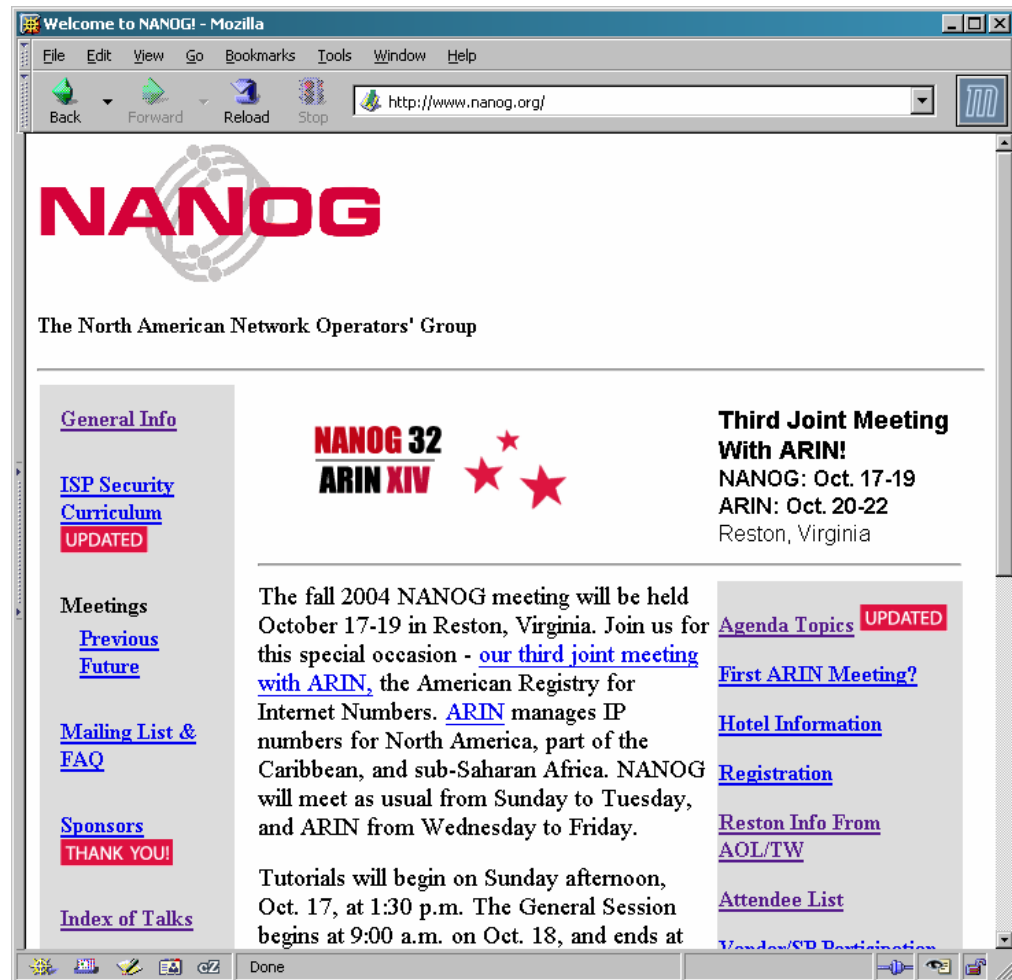
- Switzerland
 - Nigeria
 - Denmark
 - Bermuda
 - Finland
 - Israel
 - Cisco 44
- 

Occupations



Shameless Plug for the NANOG Web

- Email FAQ
- Indices
- Security
- Tools




The screenshot shows a Mozilla browser window titled "Welcome to NANOG! - Mozilla" with the address bar displaying "http://www.nanog.org/". The website content includes the NANOG logo, the text "The North American Network Operators' Group", and a central announcement for "NANOG 32 ARIN XIV" with three red stars. To the right, it states "Third Joint Meeting With ARIN!" with dates "NANOG: Oct. 17-19" and "ARIN: Oct. 20-22" in Reston, Virginia. The main text describes the fall 2004 meeting on October 17-19 in Reston, Virginia, as a special occasion for the "third joint meeting with ARIN". It mentions that ARIN manages IP numbers for North America, the Caribbean, and sub-Saharan Africa. The meeting schedule is: NANOG from Sunday to Tuesday, and ARIN from Wednesday to Friday. Tutorials begin on Sunday afternoon, Oct. 17, at 1:30 p.m. The General Session begins at 9:00 a.m. on Oct. 18, and ends at 5:00 p.m. on Oct. 18. A sidebar on the left contains links for "General Info", "ISP Security Curriculum" (UPDATED), "Meetings" (Previous, Future), "Mailing List & FAQ", "Sponsors" (THANK YOU!), and "Index of Talks". A sidebar on the right contains links for "Agenda Topics" (UPDATED), "First ARIN Meeting?", "Hotel Information", "Registration", "Reston Info From AOL/TW", and "Attendee List". The browser's status bar at the bottom shows "Done".

NANOG Mailing List FAQ - Mozilla

File Edit View Go Bookmarks Tools Window Help

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NANOG Mailing List FAQ

draft.v2.0
<<http://www.nanog.org/listfaq.html>>

Last updated: 09/07/04

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Taskbar: [Icons for various applications]

NANOG Subject Index - Mozilla

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Subject Index

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#

9/11

- [The Internet Under Stress](#), by Peter H. Salus, Matrix. NANOG 23, October 2001.
- [What Worked and What Didn't: 9/11](#), by Sean Donelan, Donelan.com. NANOG 23, October 2001.
- [Multicasting Worked on 9/11](#), by Marshall Eubanks, Multicast Technologies, Prashant Rajvaidya, UC Santa Barbara, and Rich Mavrogeanes, Vbrick. NANOG 23, October 2001.

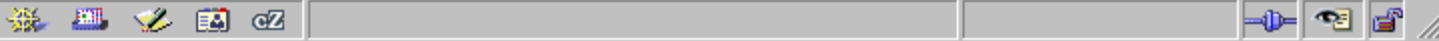
A

Addressing (see [CIDR](#))

Anycast

- [Deploying IP Anycast](#), by Kevin Miller, CMU. NANOG 29, October 2003.
- [BGP4 Anycast for Root Name Service - Threat or Menace?](#) by Suzanne Woolf, ISC, and Mark Schleifer, Cogent. NANOG 27, February 2003.


Architecture (see also [Design](#), [Convergence](#), [IGPs](#))



Author Index: NANOG Presentations - Mozilla

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A

Abarbanel, Benjamin

- [Implementing Global Network Mobility Using BGP](#), by Benjamin Abarbanel, Boeing. NANOG 31, May 2004.

Abley, Joe

- [Building a Web of Trust](#), by Joe Abley, ISC. NANOG 29, October 2003.
- [Managing IP Networks with Free Software \(Tutorial\)](#), by Joe Abley and Stephen Stuart, Internet Software Consortium. NANOG 26, October 2002.
- [Inter-domain Traffic Engineering: Principles, Applications, and Case Studies](#) (Tutorial part 1), by Josh Wepman, Ixia, and Joe Abley, PAIX. NANOG 24, February 2002.
- [IP Traffic Management: Measurement, Analysis, and Optimization](#) (Tutorial part 2), by Josh Wepmen, Ixia; Joe Abley, MFN; Andrew Lange, CW; and Matthew Meyer, Global Crossing. NANOG 25, June 2002.


Adelson, Jay

- [Internet Exchange Operator Panel](#), moderated by Celeste Anderson, LAAP/Pacific Wave. Jay Adelson, Equinix; Tom Bechly, MAE Services; Itojun Hagino, DIX-IE; Mike Hughes, LINX; Christopher Quesada, Switch and Data; Akio Sugeno, NYIIX/LAIIX. NANOG 30, February 2004.
- [Internet Exchange Operator Panel](#), Mike Hughes, LINX, moderator. Jay Adelson, Equinix; Celeste Anderson, LAAP; Tom Bechly, MAE Services; John Brown, IXNM; Akira Kato, NYPIXP/IPTX/IPNAP.

NANOG Meeting-by-Meeting Index - Mozilla

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Meeting-by-Meeting Presentation Index

Author Index: <http://www.nanog.org/authors.html>
Subject Index: <http://www.nanog.org/subjects.html>

These web pages list the presentations given at each NANOG meeting (more coming soon):

- [NANOG 31, San Francisco, May 2004](#)
- [NANOG 30, Miami, February 2004](#)
- [NANOG 29, Chicago, October 2003](#)
- [NANOG 28, Salt Lake, June 2003](#)
- [NANOG 27, Phoenix, February 2003](#)
- [NANOG 26, Eugene, October 2002](#)
- [NANOG 25, Toronto, June 2002](#)
- [NANOG 24, Miami, February 2002](#)
- [NANOG 23, Oakland CA, October 2001](#)
- [NANOG 22, Scottsdale, May 2001](#)
- [NANOG 21, Atlanta, February 2001](#)
- [NANOG 20, Washington DC, October 2000](#)
- [NANOG 19, Albuquerque, June 2000](#)
- [NANOG 18, San Jose, February 2000](#)
- [NANOG 17, Montreal, October 1999](#)
- [NANOG 16, Eugene, May 1999](#)
- [NANOG 15, Denver, January 1999](#)
- [NANOG 14, Atlanta, November 1998](#)
- [NANOG 13, Des Moines IA, June 1998](#)

Done

NANOG Security Curriculum - Mozilla

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NANOG

NANOG Security Curriculum

Last updated: 08/30/04

NANOG actively works to produce sessions and seminars to help foster security on the Internet. All sessions are taped and converted to streaming media for all to use for their personal education. Slides are available for each session as well. Over time, this effort has generated a valuable online tutorial for engineers and others seeking to learn more about running a more secure network.



ISP Security Tutorials

Using IPsec to Encrypt Your Wireless Traffic at NANOG. Level: Introductory, Hands-on
<http://www.nanog.org/mtg-0405/wessels.html>

Customer-Triggered Real-Time Blackholes. Level: Introductory
<http://www.nanog.org/mtg-0402/morrow.html>

Implementing a Secure Network Infrastructure (Parts I-III)
<http://www.nanog.org/mtg-0310/kaeo.html>

ISP Security - Real World Techniques I - Remote Triggered Black Hole Filtering and Backscatter Traceback
<http://www.nanog.org/mtg-0110/greene.html>

ISP Security - Real World Techniques II - Secure the CPE Edge
<http://www.nanog.org/mtg-0210/ispsecure.html>

Done

ISP Resources - Mozilla

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NANOG

ISP Resources

Last updated: 9/03/04

Tools	CIDR	Mailing Lists	SPAM Network Abuse	General Reference	Routing & Exchange Points	DNS	Looking-glasses	Outages, Statistics, Network Management	Other ISP Web Pages & Organizations
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See also the NANOG email list FAQ: <http://www.nanog.org/listfaq.html>

Additions and suggestions welcome - please send e-mail to nanog-support@nanog.org.

Mailing Lists

Subscription info is provided below, or send mail directly to the [listname]-request address with 'subscribe' (without the quotes) as the only text. Some lists take you through a confirmation process before actually adding you to the list.

General-Interest Lists

- ◆ **nanog@nanog.org**
Technical operational information and implementation issues that require cooperation among network service providers. Subscription info available [here](#).
- ◆ **inet-ops@lists.stealthgeeks.net**


Done

NANOG Presentation Guidelines - Mozilla

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NANOG Web
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NANOG Presentation Guidelines

Thank you for your interest in NANOG! If you are proposing a talk for an upcoming meeting, please keep the following in mind as you prepare your presentation. See also the NANOG32 Call for Presentations at www.nanog.org/mtg-0410/cfp32.html.

What Makes a Good Talk?

To increase the chance that your talk will be accepted, we recommend that you:

- Highlight operational experience, i.e., present a case study.
- Identify anomalies or counter-intuitive (interesting) aspects of your experience
- Educate in your area of expertise (so the audience can learn something)
- Motivate action (so the audience goes out and does something as a result of the talk)
- Entertain (so the audience stays in the room)

Slide Format

- Company logos must only appear on the first and last slides of your talk. Full-page logos on cover slides are discouraged.
- Slides cannot include copyright notices or language indicating that the content is confidential.
- A plain white background is recommended. You'll find a sample PPT file [HERE](#) and a sample MagicPoint

Done

NANOG32 Agenda - Mozilla

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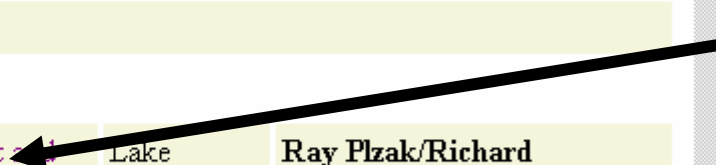
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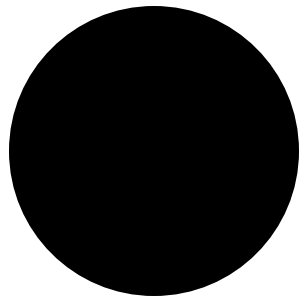
Reston **NANOG32 Agenda** **NANOG**
October 17-19, 2004

Sunday Tutorials

1:30 - 3:00	BGP Multihoming Techniques Level: Introductory	Reston Suites B	Philip Smith, Cisco
1:30 - 3:00	Options for Blackhole and Discard Routing Level: Intermediate	Lake Fairfax	Joe Soricelli, Juniper Wayne Gustavus, Verizon
3:00 - 3:30	Coffee break		
3:30 - 5:00	BGP Multihoming Techniques (cont'd.)		
3:30 - 5:00	Internet Number Resource Management Administration Level: Introductory	Lake Fairfax	Ray Plzak/Richard Jimmerson, ARIN
5:00 - 7:00	AOL WELCOME RECEPTION !		
7:30 - 8:15	ISP Security Toolkits Level: Introductory/Intermediate	Reston Suites B	Tim Battles, AT&T
7:30 - 9:00	IPv6 Deployment and Case Studies Level: Introductory/Intermediate	Lake Fairfax	Shankar Vemulapalli, Cisco

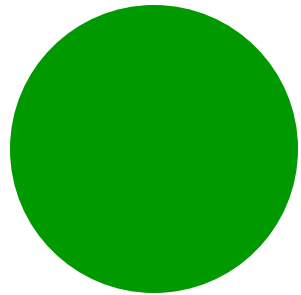


Buttons on Badges



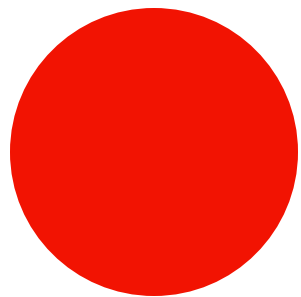
=

I work on operational security at an ISP



=

Ask me about peering



=

I sign PGP keys

Our Hosts!



Sunday Evening Reception -
Thank You AOL!

Break Sponsors

Monday Morning Break



Monday Afternoon Break



THANK YOU!

Multicast

Edge Router



INTERNET SYSTEMS CONSORTIUM

DNS, DHCP, IPsec, Web Cache

Matt Weaver, Table23



Our Highly Professional Session Moderators



Steve Feldman



Bill Manning



Sue Hares



Craig Labovitz

Schedule Changes

Monday afternoon

- 1:30 talk cancelled
- Extra-long lunch, 12:00 – 2:00 p.m.
- Botnets at 2:00 p.m.

Tuesday afternoon

- Most talks $\frac{1}{2}$ hour earlier than printed agenda

Security Caution

- Don't use cleartext passwords
- End-to-end authentication needed (e.g., ssh)