

ISC and CGN

(What's a Nice Open Source Company
Like You Doing Writing Code Like This?)

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What is ISC's role with CGN?

- We have funding to develop an open source implementation of the technology generally referred to as “carrier grade NAT”
- Prototype in userland on Comcast standard platform: Linux on commodity hardware.
 - Demonstrates basic functionality
 - Test to baseline performance
 - Kernel version harder to build, but expected to perform better
 - No idea how to quantify this yet

Next steps

- Better logging
 - Ports mapped
 - Tunnel set up/tear down
 - Packet headers
- Configuration interface
- Performance
- Integrate concepts from aplusp (moves NAT closer to user control)

Why is ISC doing this?

- We know some people think CGN is evil
- We believe the idea is sound: IPv6 deployment will be aided by moving the solution closer to the problem
 - Content providers don't need IPv6, they have IP addresses
 - End users don't need IPv6, they have IP addresses (usually NATted)
 - Access providers are running out of addresses

Why, con't

- Freely available open source lets everyone look at the ideas and the code, take whatever they can use....
- Including aplusp and other refinements to move control closer to the user

Moving along

- Sharing early pre-alpha/prototype code with a few “friends and family” soon– see us if you’re interested
- CGN Forum for other potential partners who might want to work with us on future development
- More work on the prototype and the kernel mode version