draft-tsou-behave-ftp46-00

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Introduction

- BEHAVE made RFC 6384 “An FTP Application Layer Gateway (ALG) for IPv6-to-IPv4 Translation”

- Use case considered:

![Diagram of FTP client (IPv6) connecting to FTP server (IPv4) via NAT64 with FTP ALG]
Problem

• Current situation:
  • IPv4-only ISP
  • Subscribers run IPv4-only FTP servers
• With NAT64:
  • Subscribers' FTP servers will become IPv6-only
  • Port redirection on NAT64 allows incoming connections to FTP servers (out of scope)
• Problem:
  • NAT64 FTP ALG does not work in this direction
Problem

- Existing NAT64 FTP ALG needs to be extended to handle IPv4-to-IPv6 connection establishment.
- Problem is encountered as part of the regular “IPv6 network to IPv4 Internet” deployment scenario.
When to activate the ALG?

- When external port is 21.
- Or when internal port is 21.
- Or when PCP requested external port is 21. (even if PCP assigned a different port)
- Or as indicated by an out of band mechanism. (web interface, proprietary signaling, etc.)
Our draft

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• Specifies ALG behavior for the IPv4-to-IPv6 direction.
• Updates RFC 6384.
• Seems straightforward (to us, at least).
Next steps

- Please read and give us feedback!
- WG draft? AD sponsored? Individual?