Discovery of a Network-Specific NAT64 Prefix using a Well-Known Name

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draft-ietf-behave-nat64-discovery-heuristic

Teemu Savolainen,
Jouni Korhonen,
Dan Wing
One WGLC completed

- We had one WGLC and the comments were discussed in the Behave interim at June.
- Most of the comments were handled already in the -10 revision, but few (especially the changes to configuration in the Appendix) were fixed only in the -11 that was published on Monday.
Changes since WGLC 1/2
(between -09 and -11)

- Added considerations related to mapping IPv4 address ranges to IPv6 prefixes
  - Essentially stating that the heuristic approach does not support learning of possible mapping rules DNS64 has for special IPv4 address (ranges)
  - Included considerations how possible issues can be mitigated by network configuration
- Fixed proposed Well-Known IPv4 addresses to be: 192.0.0.170 and .171
- Added consideration about NXDOMAIN/NXRRSET hijacking
- Clarified that the IPv4 address is to be searched in octet boundaries
- Clarified that node MUST use all learned Pref64::/n in local synthesis
- Clarified that in case of timeout for AAAA query, retransmissions should be send like for any other DNS query
- Clarified that in case of negative response for AAAA query, TTL is obeyed before retransmission
Changes since WGLC 2/2
(between -09 and -11)

- Clarified that DNSSEC only validates that the discovered prefix belongs to the domain used by NAT64. Clarified that DNSSEC does not work with WKP.
- Clarified that NAT64 FQDN must map to Pref64::WKA/n
- Clarified that CNAME/DNAME results should be followed according to RFC1034/RFC1035/RFC6672 rules
- Clarified that connectivity check based on Pref64::/n works only with NSP
- Clarified that TTL for the well-known name should be at least 60 minutes
- Added considerations for network operators how they can influence selection of Pref64::/n nodes use for synthesis
- Added message flow illustration
- Updated the DNS Resource Record configuration example
- Load of nits fixed; normative keywords and terminology fine tunings
Next steps

- All received comments should be now handled and included in the revision -11
- Ready to start second WGLC?