

j.gtld.biz's A record is missing!
(But we *don't* need help finding it!)

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J.GTLD.BIZ

- This is a fairly new DNS server (name) we use to serve the "US." zone
 - Has an IPv6 address, a AAAA record
 - Given the network engineering, we had no IPv4 address to give it
- Added this in the spring/summer
 - IANA asked "do you mean to do this?"

.US NS set

• Name	IPv4	IPv6
• a.gtld.biz	209.173.53.162	no IPv6
• b.gtld.biz	209.173.57.162	no IPv6
• c.gtld.biz	209.173.60.65	no IPv6
• i.gtld.biz	156.154.96.126	2001:503:d1ae:ffff:ffff:ffff:ffff:ff7e
• j.gtld.biz	no IPv4	2001:503:a124:ffff:ffff:ffff:ffff:ff7e
• k.gtld.biz	156.154.72.65	2001:503:e239:0:0:0:3:1

Complaints?

- For months nothing
- Then a question - "Did the A record go missing?" (Us: "no", them: "ok.")
- Then a report that a problem was caused - but not true
- We searched web for issues, found none

Pattern of the reports

- "US." has a locality space
 - <us-state>.us, for example, ny.us
 - this is "legacy" - old space
- All notices come from that space
- It seems that the name servers used by these folks are old BIND versions, pre-IPv6 aware

Summary

- IPv6-only j.gtld.biz is RFC compliant but is exposing old software in use
- We will continue to use this name because it helps IPv6 development
- Most impact is in Customer Support, handling phone calls on this