

Date: Fri, 29 May 2020 10:29:44 -0700
From: John Sage <jsage@finchhaven.com>
To: nanog@nanog.org
Subject: Curious Cloudflare DNS behavior
Message-ID: <f74c4a8f-d199-4e63-1fbb-53a97>
Content-Type: text/plain; charset=utf-8; format=flowed

FULL DISCLOSURE: this is an end-user issue, but one that might have some operational relevance, particularly if anyone from Cloudflare DNS is on the list

EXECUTIVE SUMMARY: twice in six weeks Cloudflare DNS on my new Netgear Orbi cable modem/mesh WiFi hotspot has completely lost track of one (and only one that I know of) prominent US domain: usbank dot com

Internet provider: Comcast/Xfinity "Extreme Pro+"

Dynamic IP address via Comcast that hasn't changed in six-seven years

New Netgear Orbi cable modem, configured with DNS through Cloudflare (1.1.1.1 and 1.0.0.1)

Again, twice in 6 weeks Cloudflare DNS seems to lose complete track of usbank dot com as a domain

Symptoms: Firefox on Ubuntu Linux returns that little puzzled dinosaur cartoon thing and "We can't seem to find this website right now"

BUT ALSO:

Each one of ping, traceroute, dig and host returns

Host usbank . com not found: 2(SERVFAIL)

or some variant thereof

Everything else works "just fine" as the saying goes

And the Cloudflare DNS drop lasted for days the first time around

I can switch over to Google DNS (8.8.8.8 and 8.4.4.8) in the Orbi and immediately fix the problem

So. Seems odd that Cloudflare DNS would apparently lose complete track of a major US domain name like usbank dot com

Or am I missing something?

- John

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John Sage

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Message: 14

Date: Fri, 29 May 2020 19:51:12 +0200 (CEST)

From: Havard Eidnes <he@uninett.no>

To: jsage@finchhaven.com

Cc: nanog@nanog.org

Subject: Re: Curious Cloudflare DNS behavior

Message-ID: <20200529.195112.2313806005196>

Content-Type: Text/Plain; charset=iso-8859-1

> Again, twice in 6 weeks Cloudflare DNS seems to loose complete
> track of usbank dot com as a domain.

All the name servers for that domain are placed in that same domain. That in itself perhaps isn't a problem. However, they also all have IPv4 addresses (no IPv6 in sight) in the same /16 which is routed as a single entity in the global routing table. Thus, if that network should fall off the net from Cloudflare's (or any other recursive resolver operator's) perspective for some reason or other, the names in that domain will all be unresolveable, and a recursive resolver which is unable to reach any of the publishing name servers will return SERVFAIL.

Regards,

- Håvard