Transcript from ROW#9 Q&A Zoom Window
June 16th, 2020, 13:00 – 16:00 UTC

Bill Woodcock 06:24 AM

Re Sarah's question, I think a lot of Europeans trust their ISP's recursive resolver because there's at least notionally GDPR compliance being enforced, whereas the commercial recursive resolvers are, by and large, US companies that don't view themselves as being bound by GDPR.

This question has been answered live

Sarah Wyld (Tucows) 06:29 AM

Trying again (fully-formed this time!): Thanks to all the panelists, this topic is complex and I really appreciate the clear explanations. I see benefits to encrypting DNS resolution, but also problems: 1, centralizing this service among a few major providers gives them a lot of data about me and a lot of control over how I interact with the Internet; 2, users think DoH encrypts everything but the initial interaction to establish that secure connection is still unencrypted, right? So it can give people a false sense of security. How can those problems be mitigated by providers and users? Thank you again.

This question has been answered live

Guillaume-Jean Herbiet 06:30 AM

Hello. Concerning the parent signaling of DoT/DoH at child zone mentioned by Mr Levine, can the use of an SRV record be of any use (possibly in combination with a NS record) to signal delegation (NS) and presence of DoT/DoH (SRV) ?

John Levine 06:31 AM

That's been one proposal. Another is for the parent to send TLSA for the child servers' certificates.

Bill Woodcock 06:30 AM

Question from me to John, Stéphane, and Geoff: Do you have a preference between DoT and DoH for recursive-to-authoritative communication, or authoritative-master to, uh (yes, I know, this isn't the in-vogue terminology anymore, but as there isn't yet an accepted replacement…), authoritative-slave communication, based on technical grounds? I imagine a lot of us prefer DoT for political or standards-process reasons, but I'm asking about technical reasons related to those two legs. Thanks.

This question has been answered live

Sarah Wyld (Tucows) 06:30 AM

Bill - good point!

This question has been answered live

Jothan Frakes 06:38 AM

What governs that the DOT/DOH provider(s) will not add alt-root TLDs around ICANN/IANA?

This question has been answered live

Saulo Da Silva 06:53 AM

Why APNIC doesn't have control of all address in the region? Don't you think this is prone to security problems? Even having NIRs they should not get the addresses from APNIC?

Stephane Bortzmeyer 07:09 AM

I assume it is not a technical issue but a political one. APNIC operates in a very complicated political environment.

George Michaelson 07:28 AM

“control” is a difficult word for us, what we have is “authority” for things. And we do: we have the authority. But the authority is also transitively delegated to the national entities in 7 economies in our regional responsibility, and they are autonomous and run their own models of service.

George Michaelson 07:29 AM

historically these NIR got sub-blocks, and operated local policy over (sub)distribution. since 2011 we have operated a model of ‘direct delegation’ where we ask the NIR to delegate from us, and we have better consistency on data. But, the NIR have something we cannot have: they have local-language more specific data. So in RDAP we have the wonderful opportunity to implement i8n service delivery: combine an ASCII english record with a local UTF-8 record

Rubens Kuhl 06:57 AM

China is one of the countries in APNIC service region. Google is known to be blocked in China. If things are stored in Google, does this mean there is no RDAP access in China ?

This question has been answered live

David Conrad 07:00 AM

interesting architecture, but how many millions of queries per second does APNIC’s RDAP server get?

This question has been answered live

Rick Wilhelm (Verisign) 07:14 AM

Question for George: I think that I heard 30 qps average load. How does that compare with expectations? And do you have an understanding of where the load is coming from?

This question has been answered live

Nicolas Antoniello 07:28 AM

@George:
If for some reason let's say that someone wants "it's part of the RDAP data" to be stored within some region/country, does your architecture allows for that (I mean for example if it may work splitted among different cloud providers)?

This question has been answered live

George Michaelson 07:33 AM

Sorry I mis-typed

George Michaelson 07:34 AM

Yes, we can handle this situation. E.G. if JPNIC decided they want to run their own RDAP, and in this model want to host jpnic.rdap.apnic.net we can "map" this to their hosting model, at the cost of the exterior HTTP 30x redirect.

George Michaelson 07:34 AM

We would e.g. require them to map to the RIR RDAP profile and support related entity naming in a way which was globally consistent, but that is a low barrier to entry.

George Michaelson 07:35 AM

we are reasonably sure that in fact at least SOME of the NIR will do this! we don't expect them to single host RDAP inside their economy, once they realise the service burden is terminating world-wide query back into their own economy: the rational outcome is to go to the cloud like us!

Nicolas Antoniello 07:43 AM

Thanks !

This question has been answered live

Rick Wilhelm (Verisign) 08:11 AM

The current i.whoswho service provides a web-based interface on top of the raw RDAP information. The wireframes shown here have authoritative information provided by the registry and registrar along with non-authoritative information provided by the lookup service. How would you make this distinction clear to the user?

Werner Staub 08:23 AM

Yes, this is a very important distinction, and the current wireframes do not make it yet. In the web-based version, we would need to use visual elements with captions, possibly with expression like “i.whoswho Opinion” for the non-authoritative information, and expressiosn like “source: xyz registrar” for authoritative information. We would also have to add tool tips and collapse/expand sections to make it easier. There will also have to be a special programming effort for faithful rendering in print-out mode and in copy-paste mode.

Jothan Frakes 09:00 AM

The Drone registry is pretty cool - The registration stuff is cool - is there some resolution stuff in addition? - could it tie into DNS Loc record types for LON/LAT/ALT for example with dynamic updates?

Robert Moskowitz 09:01 AM

There are loc/alt messages.

Robert Moskowitz 09:02 AM

But can you believe that. This is where my crowd-sourced-rid draft comes in with multilateration.