

# draft-ietf-doh-resolver- associated-doh

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# What has happened since the last meeting

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- This document was adopted by the WG
- Three(ish) versions published
- -02 was a major re-organization based on WG feedback
- -03 was smaller changes, such as adding examples and clarifying privacy/security considerations

# Status

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- Discussion on various WG mailing lists indicates strong interest in having this capability
- There have been some concerns about “ickiness” but no suggestions for how to achieve the goals better
- Lack of authentication in the protocols bothers some people, but not others

# DoH servers from HTTPS

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- Uses a well-known URI that can be resolved to return the URI templates in an HTTP response

```
https://IPADDRESSGOESHERE/.well-known/doh-servers-associated/
```

```
{ "associated-resolvers":  
  [ "https://dnsserver.example.net/dns-query{?dns}",  
    "https://webhost.example.net/a/b/c/dns-query{?dns}" ]  
}
```

# DoH Servers from DNS

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- Uses a new special use domain name (SUDN) that can be queried to return the URI templates as a TXT RRset
- Client sends its resolver a query for `resolver-associated-doh.arpa` in class IN with the RRtype of TXT

```
$ORIGIN resolver-associated-doh.arpa.  
IN TXT "https://dnsserver.example.net/dns-query{?dns}"  
IN TXT "https://webhost.example.net/a/b/c/dns-query{?dns}"
```

# Resolver addresses from DNS

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- Uses a new SUDN that that can be queried to return the addresses as A and AAAA RRsets
- Client sends its resolver a query for `resolver-addresses.arpa` in class IN with RRtype of A or AAAA
- Useful for clients that can only send queries for addresses

# What's next

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- Hopefully get some feedback from resolver vendors on how well these can be implemented
- Let people suggest better methods for achieving the goal, but maybe not wait too long