

Revolutionary DoH: Effective DNS Service

Rintaro Kobayashi <k.rintaro1@icloud.com> Hyogo Prefectural Ono High School, Japan

.....

....

....

. . . .

....

EDS ex. 34.195.54.37

EDS ex. 34.195.54¦37

Abstract

DNS over HTTPS has a problem that makes difficult to identify which is name resolution request, so it is impossible to use web filtering, parental controls and so on. Furthermore, user-agent in HTTP header that is necessary for HTTPS communication would be a data to track users. In the field of implementation of DNS over HTTPS, there is a problem that requests to DNS are dominated by some companies. This time, I developed "Effective DNS Service (EDS)" that can solve these three problems: unable DNS encryptions, unable web filtering and unable to choose DNS server freely by setting a web server that mediates between client side and DNS server.



{ {	record:	'CNAME', addro
	record: addresss	'CNAME', : 'www.apple.o
}.		
{	record:	'CNAME', addre
{	record:	'A', addresss

Safety EDS

- Created by official
- organization
- Certified as Safety
- EDS
- Any Cast EDS







- (3) npm @sagi.io/dns-over-https, https://www.npmjs.com/package/ @sagi.io/dns-over- https
- (4) IETF RFC 8484 DNS Queries over HTTPS (DoH), 2018, https:// tools.ietf.org/html/ rfc8484

Acknowledgments

This work was supported by JST-SSH (Super Science **High Schools**)





