

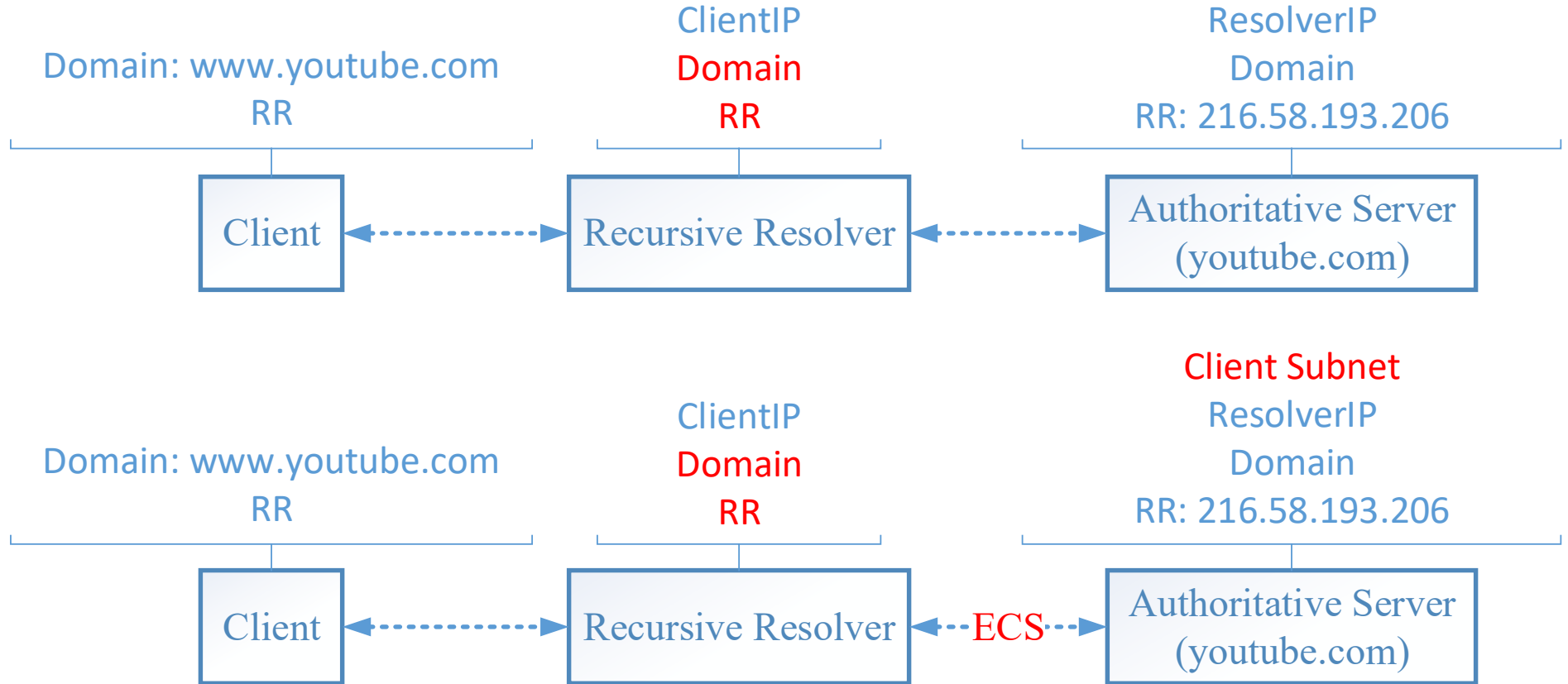
A Public Key based EDNS Privacy Tunnel for DNS

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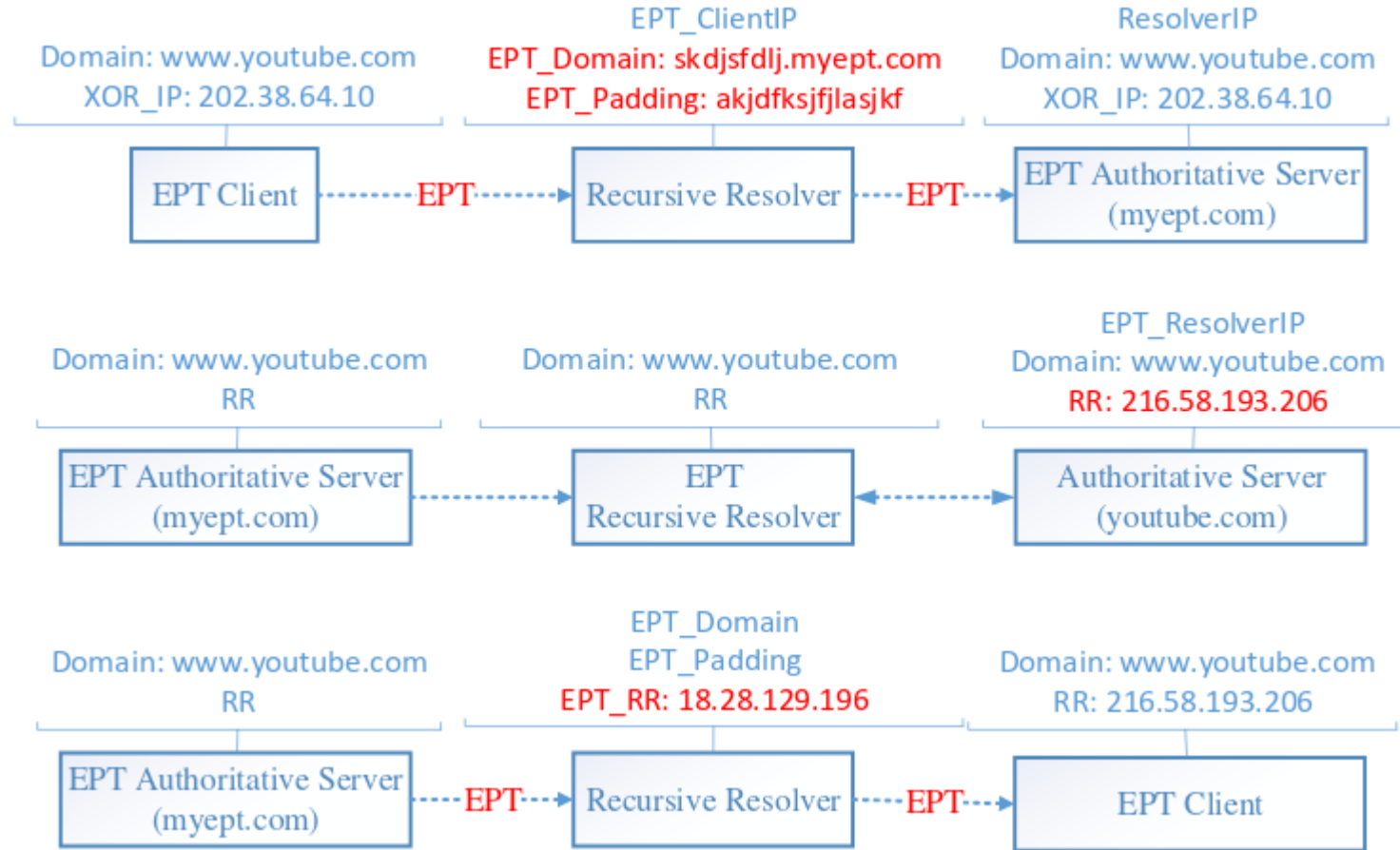
https://github.com/abbypan/dns_test_ept
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IEEE TrustCom POSTERS
3:30 PM - 3:45 PM, 08/01/2018
Room A

DNS Leakage, ECS(client subnet)



EPT: privacy tunnel extension for DNS



Privacy Elements on DNS Server

- hide the query domain from recursive resolvers
- reduce the client IP leakage to authoritative server
- defense against censorship and lying recursive resolvers.

Resolution	Recursive Resolver	Authoritative Server
Not-ECS Query	ClientIP Domain RR	ResolverIP Domain
ECS Query	ClientIP Domain RR	Client Subnet ResolverIP Domain
EPT Query	EPT_ClientIP EPT_Domain EPT_RR EPT_Padding	EPT_ResolverIP Domain