

Discovery of Oblivious Services via Service Binding Records

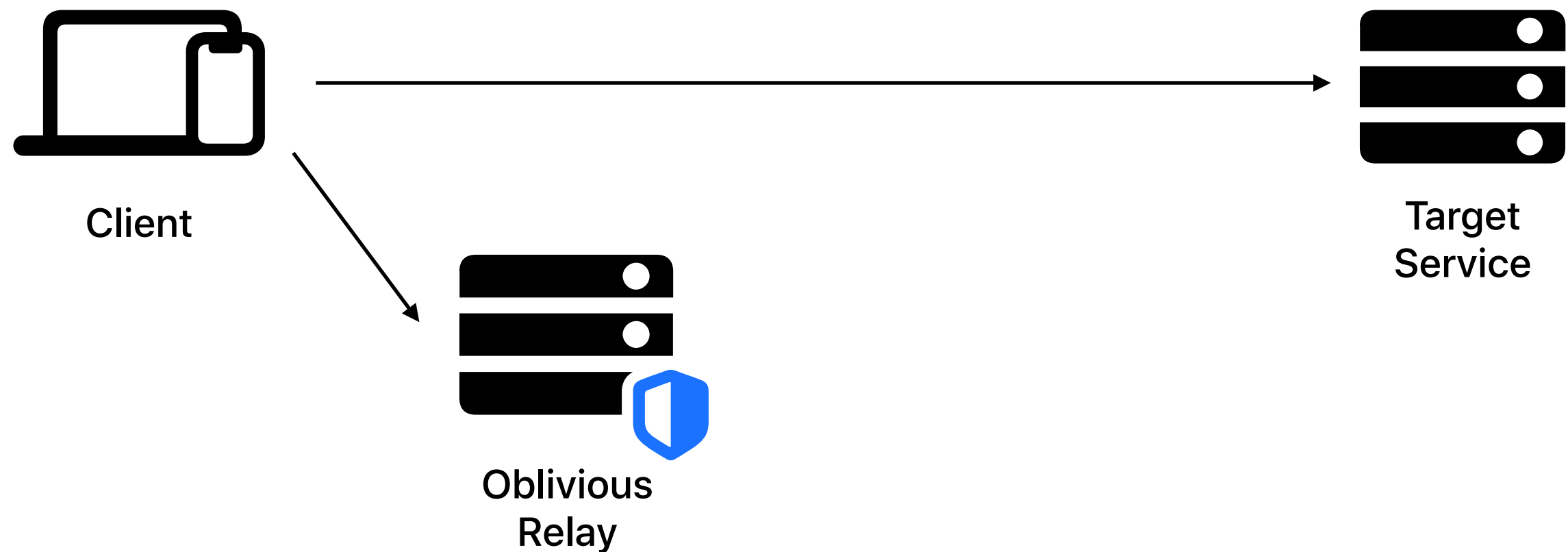
draft-pauly-ohai-svc-b-config-02

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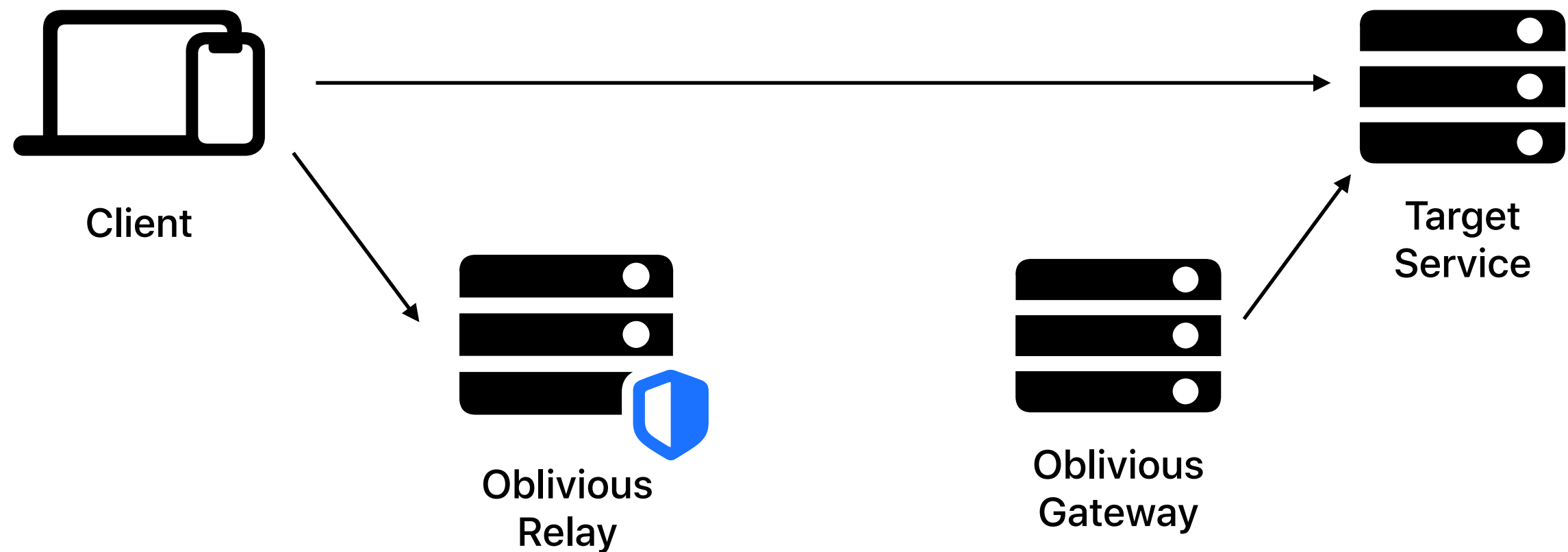
Discovery use case #1

Client wants to use a target service, and also has a trusted Oblivious Relay it works with



Discovery use case #1

Target service works with an Oblivious Gateway for OHTTP access (may be co-located)



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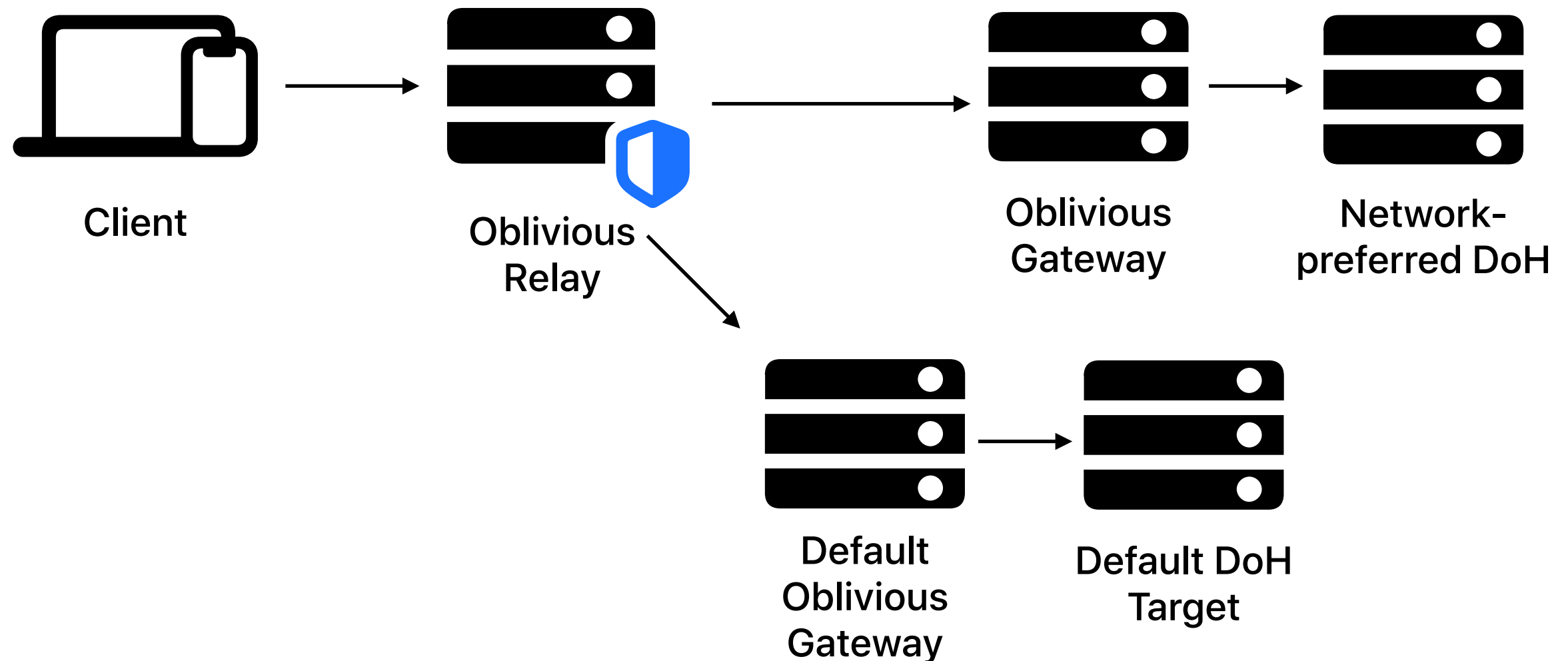
Goal is to let the client use its relay to reach the target through the cooperating Oblivious Gateway



Discovery use case #2

Variant where the target service is only used if it has OHTTP support, otherwise a default OHTTP service is used.

Network-preferred DoH / Discovery of Designated Resolvers



Scope of the document

Clients learn if a service works with an Oblivious Gateway to support OHTTP

Discovery includes the full URI of the gateway

Clients can fetch the key configuration from the gateway

GET instead of a POST (OHTTP request)

Example

DNS response (SVCB/HTTPS)

```
svc.example.com. 7200  IN HTTPS 1 . (  
    alpn=h2 oblivious-gateway=https://osvc.example.com/gateway )
```

Key configuration query

```
GET /gateway HTTP/1.1  
Host: osvc.example.com  
Accept: application/ohttp-keys
```

Targeting and consistency

Unique gateway URIs or key configs can target clients

Key config checks can be done through a proxy / relay

This kind of targeting is a common pattern across various protocols, needs more focus

Next steps

Interest in adopting discovery into the WG?