

MASQUE

Configuration

A discussion

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MASQUE
IETF 116, March 2023, Yokohama

Why configuration?

Knowing what a MASQUE proxy supports and details about how to access different proxy resources is necessary for a client

- Configuration can be proprietary or static

- Well-known URIs for UDP and IP proxying

- Standardized configuration resources might be useful; unclear if that fits in this WG

Proxy Configuration Status Quo

Type	Value
SOCKS proxy by transport address	socks.example:9000
HTTP proxy by origin	https://proxy.example
MASQUE proxy by template	https://proxy.example/ {?target_host,target_port,target,ip_proto}
Proxy AutoConfig (PAC) URL	https://mycorp.example/proxy.pac

What might the client need to know?

What services does this proxy provide?

(TCP, UDP, IP, DNS, HTTP, OHTTP, ...)

What can I access through this proxy?

(Split DNS, IP ranges)

How do I authenticate to this proxy?

(Single Sign-On, 2-Factor Auth, WebAuthn, ...)

Who is running this proxy?

(Name, favicon, location, privacy policy, ...)

How much transfer quota do I have left?

(billing cycle, link to add quota, ...)

Split DNS approaches

Try-and-failover

Send all connection to the proxy, use proxy-status to indicate unreachable hosts

PAC script approach

Configuration profile approach

Queryable resource

Ask the proxy for the list of domains it supports

Open questions

Should configuration elements be standardized?
Which ones?

Where should such work be done?

Can we draw a line between "missing functionality"/"easing deployability" and out-of-scope policy items?