MASQUE
Configuration
A discussion

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MASQUE
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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

<table>
<thead>
<tr>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCKS proxy by transport address</td>
<td>socks.example:9000</td>
</tr>
<tr>
<td>HTTP proxy by origin</td>
<td><a href="https://proxy.example">https://proxy.example</a></td>
</tr>
<tr>
<td>MASQUE proxy by template</td>
<td><a href="https://proxy.example/?target_host,target_port,target,ip_proto">https://proxy.example/?target_host,target_port,target,ip_proto</a></td>
</tr>
<tr>
<td>Proxy AutoConfig (PAC) URL</td>
<td><a href="https://mycorp.example/proxy.pac">https://mycorp.example/proxy.pac</a></td>
</tr>
</tbody>
</table>
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?