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TREX is making two IPv4 resolvers and two IPv6 resolvers available to Finnish end users. Resolvers are recursive DNS servers used by web browsers and other programs to map hostnames to numeric addresses and vice versa.

As the service is intended for Finnish users, we are limiting international traffic through our transits.

Windows users can manually configure name servers from the network settings window and add the below addresses into the list. If you are using some other operating system and you are having problems with your current name servers, try adding these lines into your `/etc/resolv.conf`:

```
nameserver 2001:67c:2b0::1
nameserver 2001:67c:2b0::2
nameserver 195.140.195.21
nameserver 195.140.195.22
```

There are several aliases for the resolvers to help remember their addresses, such as `r1.trex.fi` and `r2.trex.fi`. This is the most useful one:

```
dns.trex.fi.          IN A      195.140.195.21
                     IN A      195.140.195.22
                     IN AAAA   2001:67c:2b0::1
                     IN AAAA   2001:67c:2b0::2
```

Supported Features

One of the recursors is running **Unbound**¹ and the other recursor is running **Bind 9**². Both recursors support EDNS and large query sizes

¹<http://unbound.net/>

²<http://www.isc.org/software/bind>

as well as TCP connections. They also support DNSSEC and will validate responses if the query flags so specify.

Our resolvers do not support DNS over TLS, DNS over HTTPS or dnscrypt. But TREX hosts a **Quad9**³ node, which offers a secure service **with those features**⁴. Their server addresses are easy to remember:

dns.quad9.net.	IN A	9.9.9.9
	IN A	149.112.112.112
	IN AAAA	2620:fe::9
	IN AAAA	2620:fe::fe

Special Zones

The recursors only serve standard DNS information, as defined by **ICANN**⁵ and **IANA**⁶. They do not serve any special Top Level Domains and there are no altered responses, except as required by DNSSEC.

Acceptable Usage Policy

The servers are made available as is. Their main intended userbase is Finland. We reserve the right to deny this service if we uncover abuse or malicious activities. The maximum acceptable rate of queries to the recursive name servers from a single network is one hundred queries per second or 100q/s. If you have any problems with this service, please **contact our hostmaster**. The email address conforms to **RFC2142**⁷.

³<https://www.quad9.net/>

⁴https://www.quad9.net/faq/#Does_Quad9_support_DNS_over_TLS

⁵<http://www.icann.org/>

⁶<http://www.iana.org/>

⁷<http://tools.ietf.org/html/rfc2142>