

Active Leasequery for DHCPv4

draft-kinnear-dhc-dhcpv4-active-leasequery-00.txt

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What is Active Leasequery

- A way to get near real-time updates regarding lease activity performed by a DHCPv4 server.
- Multiple clients can connect to multiple DHCPv4 servers.
- One client can (and should) connect to both DHCPv4 servers which are associated to provide high availability (or load balancing).

Why do we need Active Leasequery?

- People want to know what the DHCPv4 Server knows, and they want to know it in near real-time. (*This need drives many purists crazy, but this need isn't going away.*)
- Our customers keep writing extensions to do this themselves (and not getting it *quite* right).
- Alternatives certainly exist (e.g., database access to DHCPv4 server's database), but difficult to standardize, not always available.
- Seems useful to standardize approach.

How does Active Leasequery work?

- Builds on techniques defined for Bulk Leasequery.
- Client creates TCP session to DHCPv4 Server.
- Client sends in Active Leasequery request.
- Server sends response packets (which look like bulk leasequery packets) until connection is dropped.

Discussion

Next Steps

- Should we accept this as DHC WG work item?