

Optimizing NAT and Firewall Keepalives using PCP

draft-ietf-pcp-optimize-keepalives-04

IETF - 91

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WGLC Feedback

Draft reviewed by Dave Thaler and Mohamed Boucadair.

Updates

OLD:

According to requirement #14 in [I-D.biner-v6ops-cellular-host-reqs-rfc3316update], a cellular host SHOULD support PCP in order to save battery consumption exacerbated by keepalive messages.

NEW:

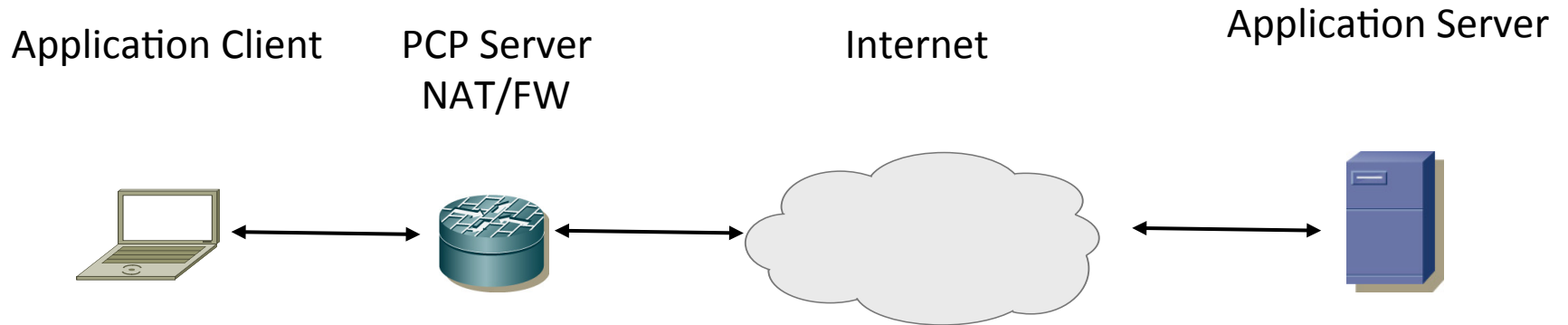
[I-D.ietf-v6ops-mobile-device-profile] recommends cellular hosts to be PCP-compliant in order to save battery consumption exacerbated by keepalive messages.

Updates

- When using the Recommended Formula explained in section 4.1.2.1 of [RFC5245] to compute priority for the candidate learnt through PCP, the ICE agent should **SHOULD/** **MUST?** use a preference value greater than the server reflexive candidate and hence tested before the server reflexive candidate.

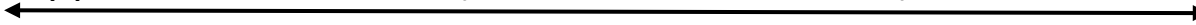
Updates

Example to show savings with PCP



Without PCP

Application heartbeat (max interval = 30 secs)



Application heartbeat (max interval = 30 secs)



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With PCP



PCP PEER (Max Lifetime = 3600 secs)



Updates

Example to show savings with PCP

- In the absence of PCP, number of packets sent in 24 hrs: $(86400/30) = 2880$ packets
- With PCP: $(86400/3600) = 24$ packets.

Do implementations (or their default policies) actually accept at least 3600 seconds in practice? Should the example be tweaked?

WGLC complete?