

Passive IP Addresses

draft-baker-opsec-passive-ip-
address





Problem

- It is possible to use a traceroute to identify routers on a path
 - More generally, ICMP and other traffic from routers identifies them to equipment that has no primary need to know
 - As a result, such equipment is subject to attacks

Principle of Least Privilege



- Folks that have **no need to know** something shouldn't know it.

Possible solutions

- draft-behringer-lla-only
 - Use only link-local addresses
 - Send ICMP from the loopback address
 - But now I can attack the loopback address
- Use a ULA
 - BCP 38 issue – PMTU fails



Desirements

- I'd like to say "requirements"
- It would be nice to be able to have a remote network identify which operator to ask a question of
- Router addresses SHOULD be in ipv6.arpa
- It would be nice to have a way to not attack the router so identified



Passive IPv6 Addresses

- Two attributes on an interface address:
 - Should I respond using it in ICMP?
 - Should I process messages sent to it?
- An address that I send to folks who have no need to know my address “should be used” and “should not be processed”
- An address my operator uses to manage me “should not be used” and “should be processed”



"That's all Folks!"