



Goal #2: Security and Performance: Equivalent Security

- **“We have met the enemy and he is us” – Pogo (Walt Kelly)**
 - **Problem: Ignoring IPv6 on the LAN, ~~may~~ will not make it go away.**
 - Microsoft Windows server 2003/Vista (native) and Vista (tunneled) – on by default.
 - Some versions of UNIX/Linux (Fedora, Ubuntu, Apple Mac OS X) – on by default.
 - Intentionally turned on by intruders of compromised hosts for stealth networking.
 - » Windows XP, most implementations of UNIX/Linux.
 - **Catch 22: Most security and management products (IDS, IPS, scanners, and the like) with IPv6 capabilities are not as mature nor as widely available as they are for IPv4. Hence, even minimal IPv6 protection can require care and some extra effort.**
 - **Solution: Act to make it “IPv6 incapable,” since it isn’t so by default.**
 - Step 1: Border routers and firewalls should have minimal changes to detect and block propagation of native IPv6 packets and IPv6-specific tunneling protocols.
 - Step 2: Local systems should be assessed, and simple configuration changes made to turn off IPv6 support when it is found to be enabled.

