IT STARTED WITH:

• I was doing a project at Solcon (Dutch ISP)
  • Deploying IPv6 for FttH customers
  • Static /56 prefix per connection
  • Provisioning to CPE with IPv6 DHCP-PD
  • Connections identified by Remote-ID (RFC 4649)
Looking for a DHCPv6 Server

• Existing DHCPv6 servers good at “Dynamic”
  • But we just want static prefixes per remote-id
  • Work-arounds to do this are ugly and error prone

• Maturity and stability not as good as we hoped
  • You don’t want your DHCP server to commit suicide when encountering something it doesn’t expect

• Not very flexible (same problems as Ron)
The result: DHCPKit

- DHCPv6 server and library for Python 3.4+
- Server doesn’t have much hard-coded behaviour
  - Just the mandatory stuff, everything else can be configured
- Very easy to write additional plug-ins
  - Integration with your provisioning system
  - Debugging tools, looking glass, identifying clients etc.