IETF Hackathon

MUD Table

IETF 106
Nov. 16-17, 2019
Singapore



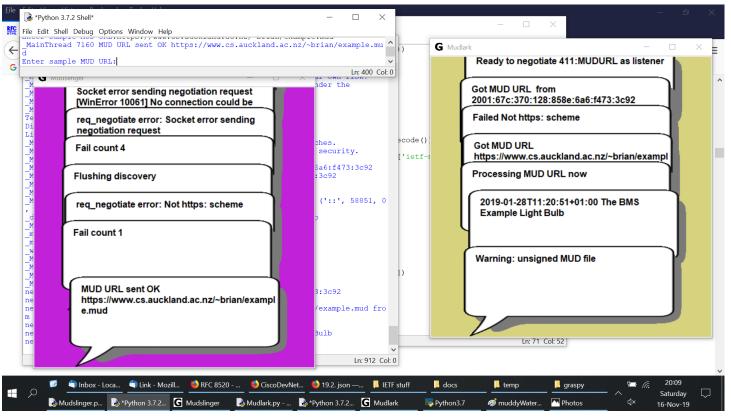
Hackathon Plan

- Improving MUD visualizer
- Visualizing SECOM Recorder
- Implement MUD in GRASP
- Test Proprietary MUD Manager against various devices and configurations
 - Develop model for using MUD for delegating Dynamic DNS updates

What got done

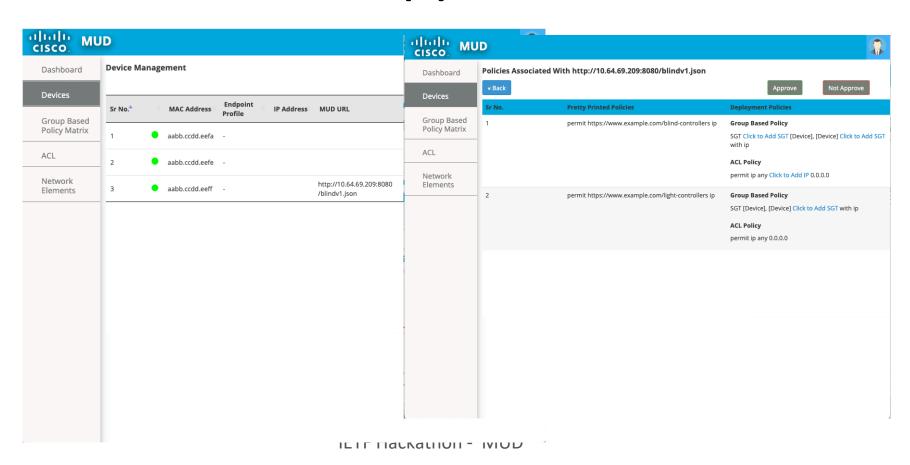
- Brian implemented MUD URL in his GRASP implementation in about 30 minutes
 - Passes to a configured MUD manager
- Sávyo built out the visualizer and mostly added URL input capability
- Eliot was debugging a new code base.
- We tested another SECOM MUD device and reviewed an onboarding approach
- Did some modifications to Cisco's MUD Manager for parsing MUD File Extension.

Grasp.py



IETF Hackathon - MUD

MUD Approval flows...



What we learned

- Autonomic Computing needs to think about ad hoc authorization models
- We reinforced that MUD is not meant for:
 - Device configuration
 - Individualized device identification or policy
- Open Source version management is a pain (versions can disappear from web sites). Github hashes are better
- Some Python APIs need help re CMS

Wrap Up

Team members:

- Brian Carpenter
- Michael Richardson
- Eliot Lear
- Tadahiko Ito
- Yuichi Takita
- Yohei Kaieda

First timers @ IETF/Hackathon: Sávvo Morais

Links:

- https://github.com/tadahik/MUD-HttpsLocal
- https://github.com/CiscoDevNet/MUD-Manager
- https://www.mudmaker.org
- https://github.com/becarpenter/graspy