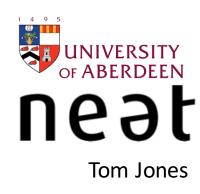
Having fun with Provisioning Domains



Captive Portals





"A small router vendor company" (Fred B.)



Tommy Pauly

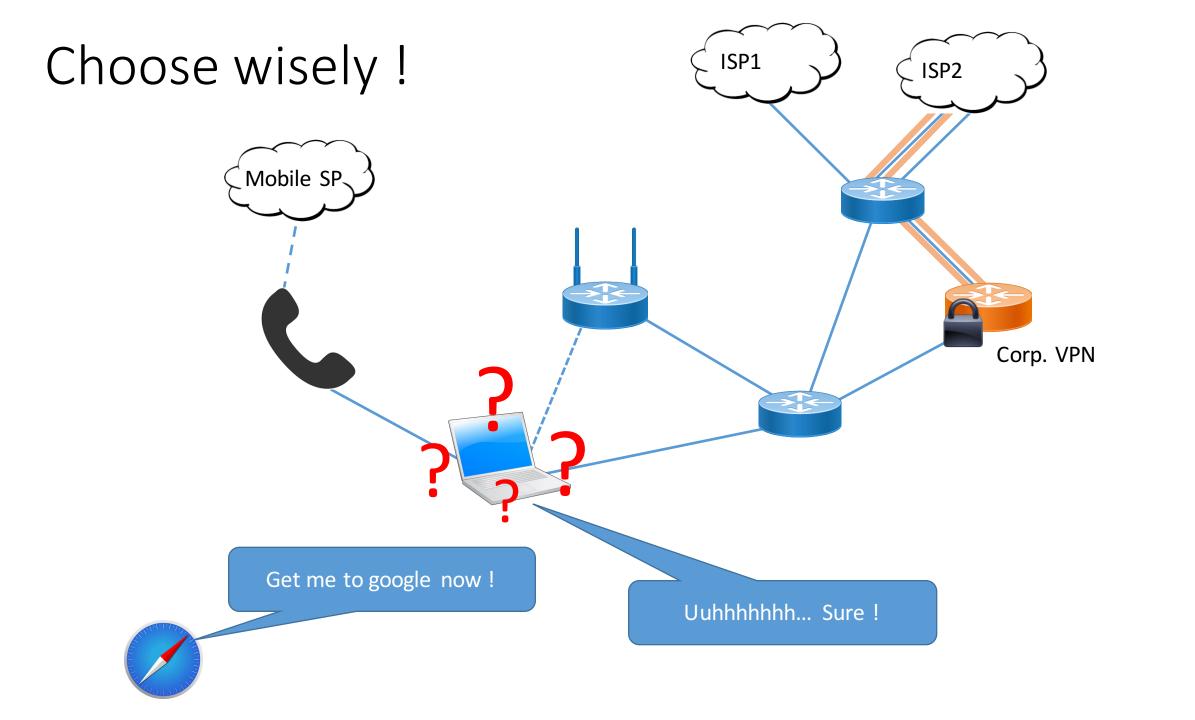
"Some fruit company" (Forrest Gump)

CableLabs[®]

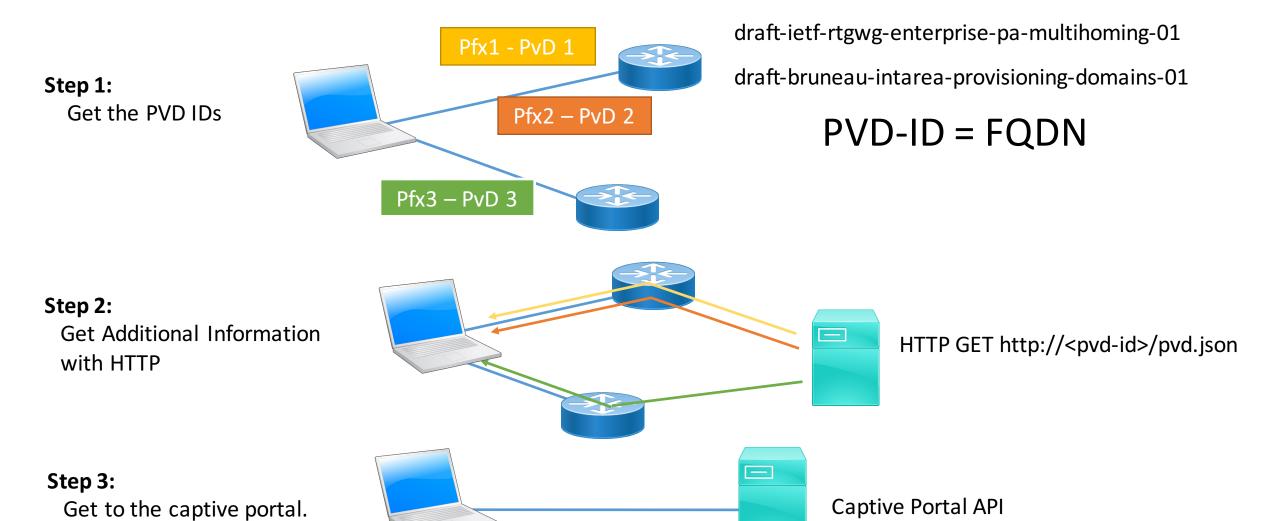
Darshak Thakore



IETF 99 Hackathon



PvDs + CAPPORT in 15 seconds



draft-ietf-rtgwg-enterprise-pa-multihoming-01 draft-bruneau-intarea-provisioning-domains-01 draft-tbd-capport-tbd

OpenWrt Support

https://github.com/Oryon/ietf99-odhcpd

- odhcpd PVD ID RA Option
- odhcpd multiple RAs per interface
- Luci configuration interface

Provisioning Domain ID

Smart.mpvd.io

PvD HTTP support

PvD Legacy (IPv4) bit

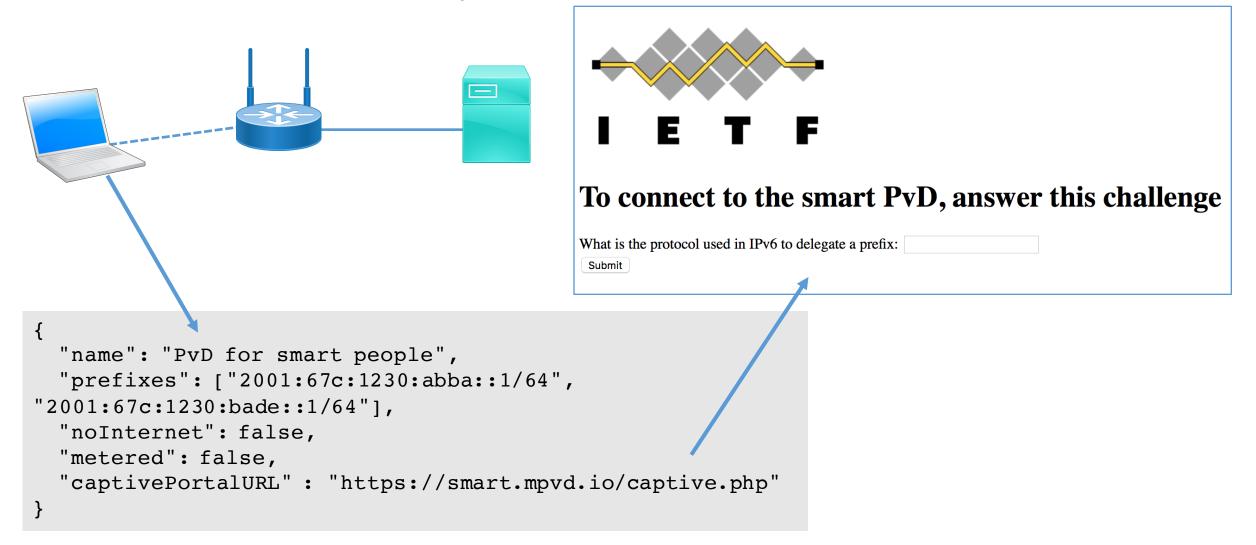
2001:67c:1230:bade::1/64

Smart.mpvd.io

```
option pvd_id 'smart.mpvd.io'
option pvd_http '1'
option prefix_filter '2001:67c:1230:bade::1/64'
option ra_maxinterval '15'
```

draft-ietf-rtgwg-enterprise-pa-multihoming-01 draft-bruneau-intarea-provisioning-domains-01 draft-tbd-capport-tbd

PvD Server and Captive Portal



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Linux Support

https://github.com/IPv6-mPvD

- Interop. with OpenWrt

Fix Wireshark dissector

Fix radvd

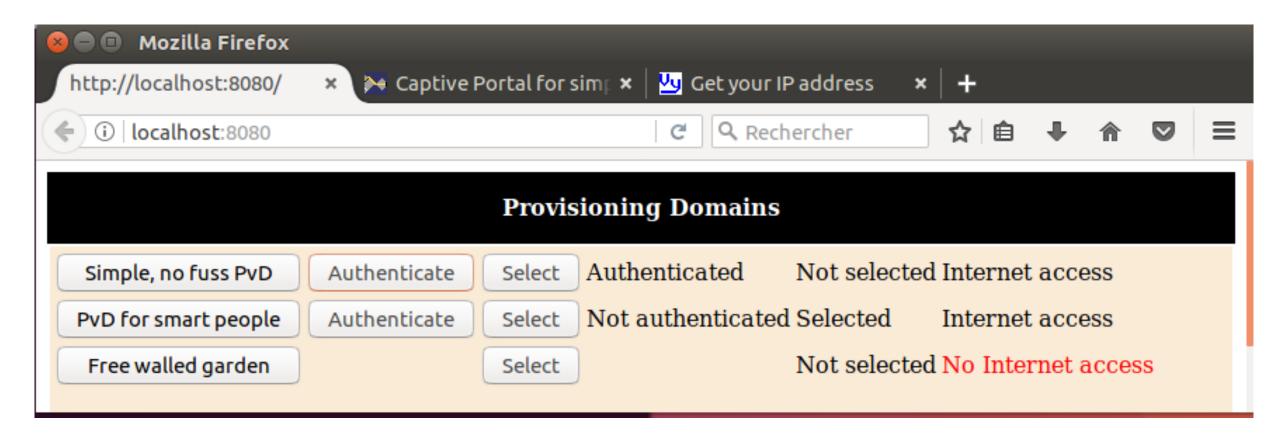
Fix Linux RA parsing

- Captive portal detection and popup

- Select the PvD with Firefox

```
▼ ICMPv6 Option (PVD ID Experiment simple.mpvd.io)
    Type: PVD ID Experiment (253)
    Length: 3 (24 bytes)
    PvD sequence number: 0
    PvD HTTP flag: 1
    PvD legacy flag: 0
    PvD reserved field: 0
    PvD lifetime: Infinity (4294967295)
    PvD ID: simple.mpvd.io
```

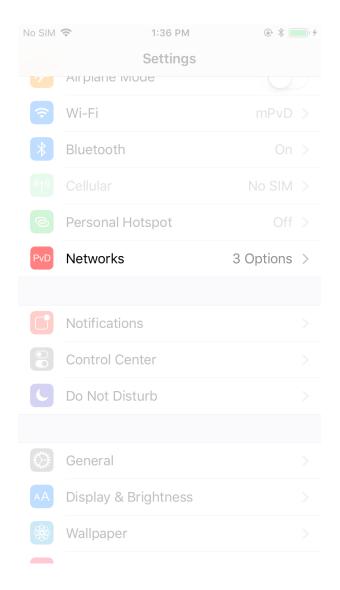
draft-ietf-rtgwg-enterprise-pa-multihoming-01 draft-bruneau-intarea-provisioning-domains-01 draft-tbd-capport-tbd



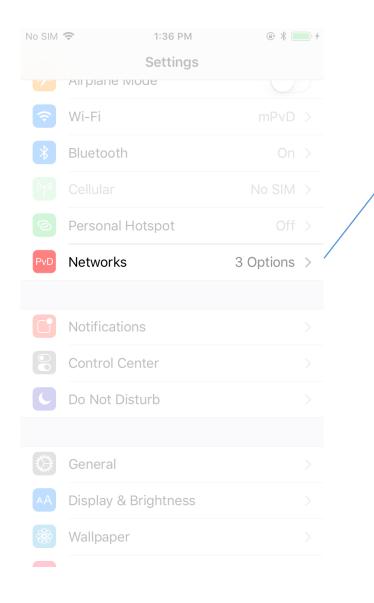
iOS Support

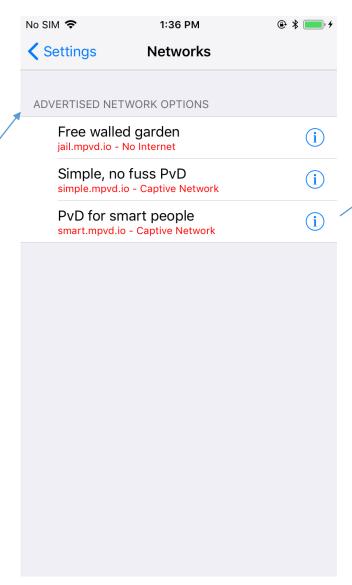
- Parsing RA PVD ID Option
- Fetch JSON PvD Additional Data
- Provide data to userland
- Accept multiple PvDs on single interface

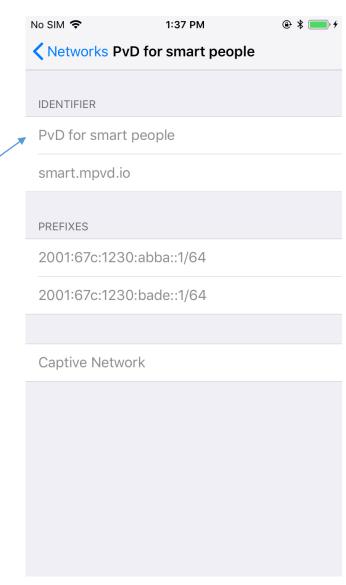
draft-ietf-rtgwg-enterprise-pa-multihoming-01 draft-bruneau-intarea-provisioning-domains-01 draft-tbd-capport-tbd



draft-ietf-rtgwg-enterprise-pa-multihoming-01 draft-bruneau-intarea-provisioning-domains-01 draft-tbd-capport-tbd







draft-ietf-rtgwg-enterprise-pa-multihoming-01 draft-bruneau-intarea-provisioning-domains-01 draft-tbd-capport-tbd

neat support

- Fetch PvD List
- Integrate with NEAT information base

```
"description": "PvD CIB node for remote host 192.168.56.10",
"expire": -1.0,
"filename": "pvd-enp0s8-192.168.56.10.cib",
"link": true,
"priority": 0,
"properties": [
        "interface": { "precedence": 2, "value": "enp0s8" },
        "local_interface": { "precedence": 2, "value": true } } ],
        "capacity": { "precedence": 2, "value": 2000000 },
        "rtt": {"precedence": 2, "value": 0.1 } } ]
"root": false, "uid": "pvd-enp0s8-192.168.56.10"
```

Feedback received during the hackathon

- Use ASCII formatting in RA option
- Use https://<pvd-id>/.well-known/pvd



Go read the drafts! Go write code!