# FRED on FreeBSD

An Experiment

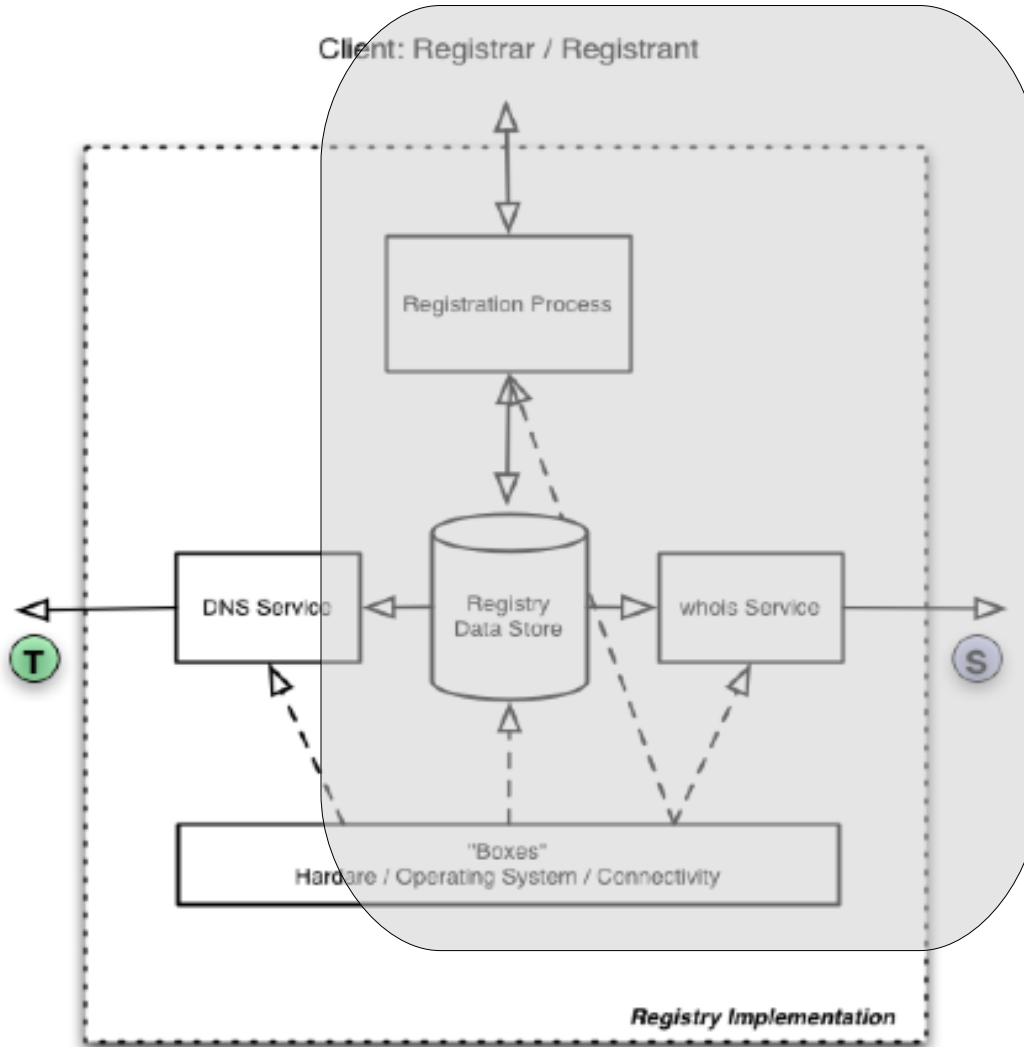executed by

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ISOC ccTLS Course

NLnet
Labs

# Summary

- FRED in a nutshell
- Why a Port
- Methodology
- Things I was missing
- Testing the parts
- Some Findings
- Conclusions

# FRED in a nutshell



Client: Registrar / Registrant

Registration Process

DNS Service

Registry Data Store

whois Service

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"Boxes"
Hardware / Operating System / Connectivity

Registry Implementation

# Why a Port

- Not every one runs Linux

- Gives idea about quality of code

- Personal curiosity
  - and I don't do Linux

# Methodology

- Just give it a try, but keep track of problems
  - Notes in a file
- Keep changes under RCS
  - in case one forget to make notes
  - might be a start of a FreeBSD port/package
    - slightly over the top
- Build it on my personal workstation
  - FreeBSD 7.1

# Things I was missing

- PostGress Database
- Lots of python related stuff
  - mod-python
    - Apache was broken
- Some Corba related stuff
  - Why a dependency on documents?
- Eppd required weird stuff
  - apx flags differs
  - Silly strnlen call needed to be implemented

# Things I was missing (2)

- Lots of python related stuff
  - py-simpletal
  - py-imaging
  - mod-python
    - Apache was broken, needs reinstall

# Testing the parts

- Fred manager starts the FRED as a test
  - Lots of trivial stuff
- Thumbs up for having this
  - Too bad I ran out of time
    - Tempting to make changes …

# Findings

- Add-on software under FreeBSD in /usr/local, Linux in /usr
  - Has consequences for path names
    - /bin/bash versus /usr/local/bash
    - /bin/true versus /usr/bin/true
      - throwing in symbolic links was tempting but sym links are *evil!*
    - small linux utilities missing:
      - `pidof` is a pain, better design would eliminate the problem

# Conclusions

- FRED seems pretty clean
- Small improvements desired for easy operation
- No idea how easy to adapt policy decisions
- Nevertheless promising!