TAPS Protocol Discovery
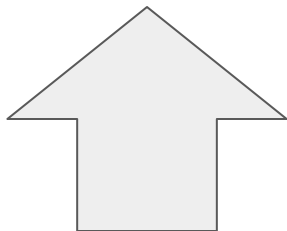
Do we want to solve this problem?
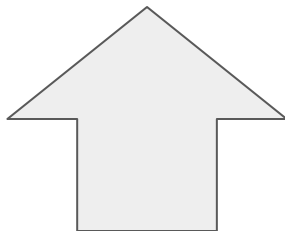
TAPS

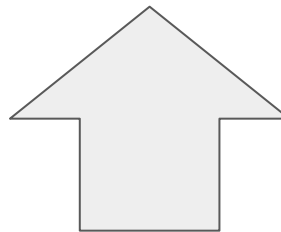hard-coded

application API?

Installer modifies
TAPS config

Installer
modifies config

Native to
operating system

App brings its
own

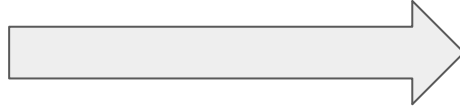Trusted Package
Installer
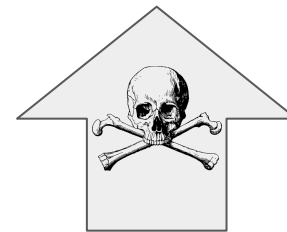
Github

Sad outcomes for TAPS

- recompiles every time there's a new protocol
- can't use user space stuff
- power users can't use bleeding edge code
  - corollary: can't use common libraries (e.g. openssl) until that project supports TAPS
- security vulnerabilities for ordinary users
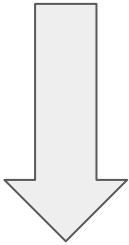- apps have to bring their own protocols

An example
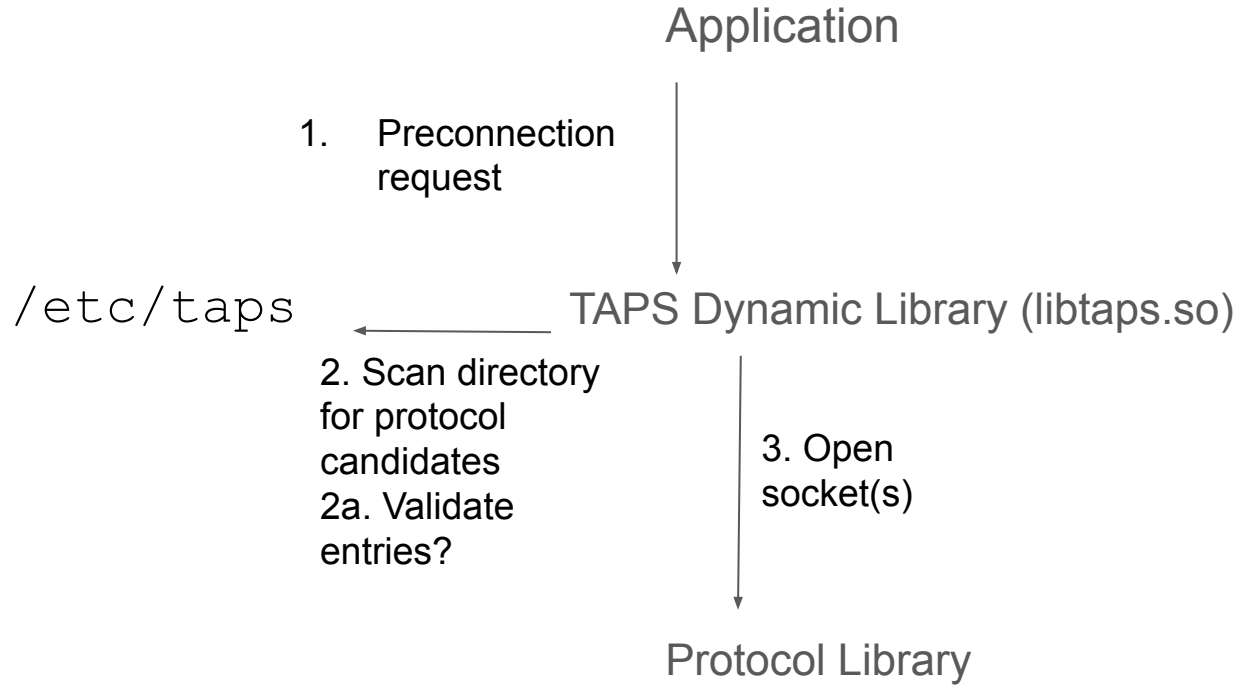
Protocol Name
Unique Name
Properties
Path to Library

Protocol Installer (root privileges)

`/etc/taps`

Installs library

Protocol Library - contains standard API function names

An example (2)

Application

1. Preconnection request

/etc/taps

TAPS Dynamic Library (libtaps.so)

2. Scan directory for protocol candidates
2a. Validate entries?

3. Open socket(s)

Protocol Library

What now?

- I'm writing some code here
- Would this be a useful draft?