Package management over Tor

PkgsrcCon 2017
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What is Tor?
Introducing http://pkgsrcbadj4vrrrrr.onion

- Hidden pkgsrc mirror:
  - NetBSD packages for amd64, arm, earm, earmv6hf, earmv7hf, earmv7hfeb, sparc64, mipsel
- distfiles
- No space on the server for i386, powerpc and others
- Not yet decided whether to keep sparc64 or mirror anoncvs
Prerequisites

- net/tor - gateway to the hidden web
- www/privoxy - access to socks proxy over http proxy
- net/socat - only if you need ssh or cvs
- pkgtools/pkgin - optional but highly recommended
Environment

- export http_proxy=http://127.0.0.1:8118
- export PKG_PATH=http://pkgsrcbadj4vrrrr.onion/pub/pkgsrc/NetBSD/amd64/7.1/All
- sudo doesn’t seem to export them, bear this in mind when troubleshooting
/etc/tor/torrc

SOCKSPort 9050
SOCKSPort 9150 OnionTrafficOnly
9053 # dns over tor, install net/dnsmasq
forward-socks5t / 127.0.0.1:9050.

# onion traffic only:
#forward-socks5t / 127.0.0.1:9150.
/etc/pkgin/repositories.conf

http://pkgsrcbadj4vrrrr.onion/pub/pkgsrc/NetBSD/amd64/7.1/All
/etc/ssh/ssh_config (for cvs)

Host pkgsrcebadj4vrrrr.onion
ProxyCommand /usr/pkg/bin/socat STDIO
SOCKS4A:127.0.0.1:%h:%p,socksport=9050
Ready to vrrrr!

- /etc/rc.d/tor start
- /etc/rc.d/privoxy start
- pkgin install ....
- pkg_add http://pkgsrcbadj4vrrrr.onion/pub/pkgsrc/NetBSD/amd64/7.1/All/sudo-1.8.20p1.tgz
Fetching sources

- Minimize exposure to clear net when building packages
- Add MASTER_SITE_OVERRIDE=http://pkgsrcaadj4vrrrr.onion/pub/pkgsrc/distfiles/ to mk.conf
- Default fetch command works over http proxy
- curl --socks4a to go straight to socks proxy
Fetching sources via socks

FETCH_USING=custom
FETCH_CMD=curl
FETCH_BEFORE_ARGS=--socks4a 127.0.0.1:9050 ...
FETCH_AFTER_ARGS=-O
FETCH_RESUME_ARGS=-C -
FETCH_OUTPUT_ARGS=-o
Questions?