

Package management over Tor

PkgsrcCon 2017
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What is Tor?

Introducing <http://pkgsrcbadj4vrrrr.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

/etc/privoxy/config

```
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](http://pkgsrcbadj4vrrrr.onion/pub/pkgsrc/NetBSD/amd64/7.1/All)

/etc/ssh/ssh_config (for cvs)

```
Host pkgsrcbadj4vrrrr.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://pkgsrsrcbadj4vrrrr.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://pkgsrcbadj4vrrrr.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? Questions?