



We choose to do the things, not because they are easy...
... but because we want them to be easy.

EuroBSDCon 2025 - Florian Obser - florian@openbsd.org



Any Questions?

Who Am I

- Professional Computer Toucher for ~ 3 decades.
- Sysadmin / DNS Operator at the RIPE NCC for 10 years.
 - Root Zone
 - `in-addr.arpa` / `ip6.arpa` / reverse DNS delegations.

Quote

Complexity is the enemy of uptime.

- Usually 100% uptime.
- ~ 200 Independent Servers on all Continents (except Antarctica).
- Automate what needs automating.
- Don't push all the buttons.

Who (else) Am I

- OpenBSD developer for 13+ years
 - priv'sep daemons for network configuration / DNS
 - `dhcpleased` / `slaacd` / `dhcp6leased` / `unwind`
 - `sysupgrade(8)`
 - deleted 300k LoC from `usr.sbin/bind`
 - ...
- previous presentations:
 - BSDCan 2018: `slaacd(8)`
 - BSDCan 2019: `unwind(8)`
 - AsiaBSDCon 2023: Dynamic Host Configuration, please
 - EuroBSDCon 2024: OpenBSD vs. IPv6

Quote

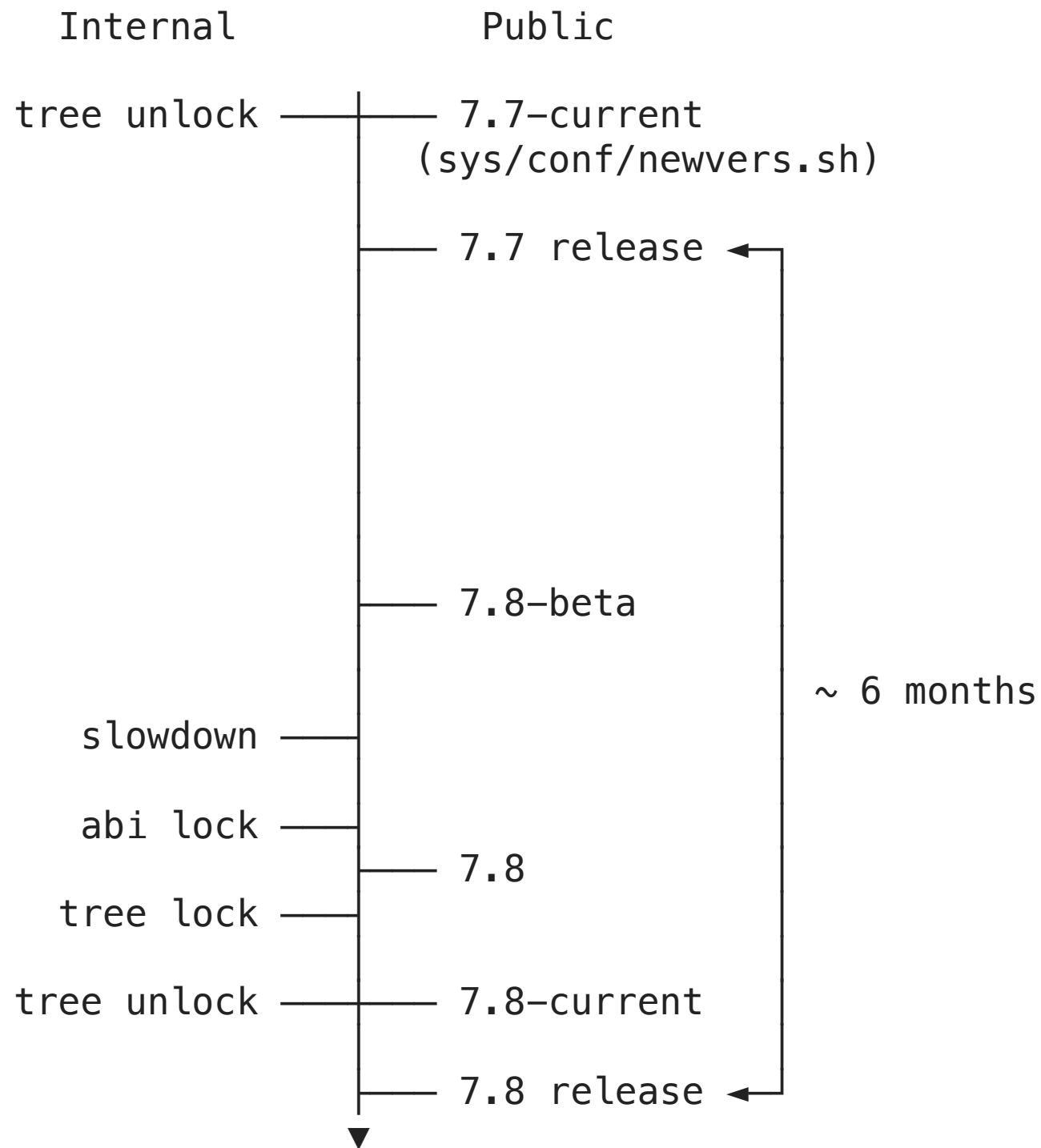
Your OS is only free if your time has no value.

- Running my own infrastructure
 - 2x DNS, 2x MX, imap, icinga, nextcloud, gitea...
- Automate what needs automating (ansible).
- Don't push all the buttons.
 - Keeps sysmerge(8) happy...
- Run `-current`.
 - Fix or report what is annoying / broken.

Running –current

- Someone has to.
- Only one Thing broken (usually).
- Improve your sysadmin skills.
- Test restore procedure.
- Realistic chance of having a timely fix.
 - Erratas are annoying and only for important fixes.

OpenBSD Development Timeline



Running `-current` the Smart Way

- Update ~ once a week
 - Better chance of libraries & packages matching
- Be less aggressive during release → `-current` transition.
 - ~ 1 Week.
- Be more aggressive during `-beta` → release transition.
- Pay attention when hackathons are happening.
 - Flurry of commits / `commit to hackathons.html`
- Subscribe to `bugs@`, `ports@`, `source-changes@`, and `tech@`.
- Be aware of <https://ftp.hostserver.de/archive/>

Running –current the Florian Way

(i.e. The Wrong Way, but faster).

1. Reboot all systems except DNS servers & Orchestrator in the background.
2. Reboot one DNS server.
3. Wait for DNS server to return.
4. Reboot the other DNS server & Orchestrator.
5. Wait for monitoring to come back and recover.

https://sha256.net/move_fast_and_break_things.html

sysupgrade(8)

- ~~bsd.rd~~
- ~~autoinstall(8)~~
- ~~uobsd~~
- sysupgrade(8)
 1. shell script
 2. boot loader
 3. bsd.rd

sysupgrade (8)

- **012: RELIABILITY FIX: October 3, 2019** *All architectures*
The sysupgrade utility can be used to upgrade the system to the next release or to a new snapshot.
[A source code patch exists which adds this utility.](#)

sysupgrade (8) bisect.

```
doas sysupgrade -fs https://ftp.hostserver.de/archive/2025-07-14-0105/
```

OpenBSD

- Developed by Volunteers with very specific problems to solve.
 - These might or might not be your problems!
 - Free to work on whatever the volunteers want.
 - The Foundation has no say in this.
 - Asking to speak to a manager and demanding a refund is not going to end well.

Contributing

- Run it and report bugs, including documentation bugs!
 - Go see "Effective Bug Reports..." by Michael Dexter
- Contributing Code
 - Find something that annoys you, fix it, and submit a patch.
 - ... and iterate on the patch!

My origin story: pflow(4)

- IPv6 for pflow(4)
 - Big-ish, but reasonably sized.
 - Added to something that was already there.

... want them to be easy.

- `pledge(2)`
 - What's annoying about `systrace` & `seccomp-bpf`?
 - Fun to use.
 - Full adoption in base within one release cycle.

... want them to be easy.

- dhcp6leased(8)

- dhcpcd.conf

```
interface vio1
    ia_pd 2/:::/59 vether0/0/60 vether1/16/64
```

- dhcp6leased.conf

```
request prefix delegation on vio1 for {
    vether0/60
    vether1/64
}
```

A large, leafy tree stands in the center of a grassy field. The sun is setting behind the tree, creating a bright glow and long shadows. The sky is blue with scattered white clouds. In the background, there are rolling hills and a line of trees. To the right, there are more trees, including a tall, thin one and a large, dark one.

Any last Questions?

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