

# Portmgr — Behind the Scenes

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- What is portmgr? (briefly)
- History
- Technical
- People
- Closing

# What is portmgr?

YES	NO
The Ports Management Team is responsible for overseeing the overall direction of the Ports Tree, building packages, and personnel matters	portmgr owns all of Mk/ portmgr is intentionally evil portmgr sets policies unilaterally

Twentieth anniversary of the FreeBSD Ports Tree (2014):  
<https://www.youtube.com/watch?v=LiFq5D-zmBs>

# History → Why portmgr?

Information from Kirill Ponomarev (krion@)

- create the packages for all releases on tinderbox,
- support and maintain pkg(8) and its predecessor in base
- test all critical changes in ports/Mk before committing them.

# History → Tinderbox?

- was a package build tool written in PHP before its successor Poudrière was written in Shell
- was run decentralized on hardware managed by volunteers, Poudrière is run centralized in the FreeBSD cluster

# History → Back in the Day

- repository copies with CVS, mimicking Subversion
- tree locks (for preparing releases, or large updates like GNOME)
- no quarterly branches
- no public pre-built packages, except at release time
- no license framework

For ports themselves:

- no staging
- no USES (e.g. *kmod*, to abstract away common boiler plate code)
- no flavors (variations of the same port still restricted to FreeBSD, e.g. A4 vs letter or full-blown vs lightweight)
- imperative instead of declarative style



- controlled at <https://www.freebsd.org/portmgr/charter/> by core
- turned into a set of policies at <https://www.freebsd.org/portmgr/policies/>
- package building, documentation, security, legal aspects, overall direction of the Ports Tree, arbitrate disputes related to ports

- automated tasks in the package building cluster for main and quarterly, for all supported FreeBSD releases + main on Tier 1 and some Tier 2 architectures
- packages updates are built multiple times a week

# People → Who is Who?

- Adam Weinberger (adamw@): human resources
- Antoine Brodin (antoine@): package building, package cluster configuration
- Baptiste Daroussin (bapt@): pkg(8), framework, core@ liaison
- Bryan Drewery (bdrewery@): package building, poudriere(8), re@ liaison
- Mathieu Arnold (mat@): framework, documentation clusteradm@ liaison
- René Ladan (rene@): secretary, grim reaper, garbage collector
- Steve Wills (swills@): miscellaneous
- Tobias Berner (tcberner@): lurker (trainee)

All the alumni: <https://docs.freebsd.org/en/articles/contributors/#contrib-portmgralumni/>

- accounts: to notify about new/retiring developers aka committers
- clusteradm: for hardware, e.g. package builders
- re: to synchronize package sets for FreeBSD releases
- core: above committer updates, but also ...

The core Team is a group of FreeBSD developers elected bi-yearly by active FreeBSD developers. They are the internal representation of the FreeBSD Project and communicate both "upwards" with the FreeBSD Foundation and "downwards" with delegate teams, such as portmgr.

- Voting on new committers and their mentors
- Safekeeping idle committers
- Welcoming back safekept committers

# People → Portmgr Rollover

- people retire
- ask new people
- draw in new lurkers

# People → Things to Improve on

- Communication could be better — social media is high maintenance
- Split off into new teams (e.g. pkgmgr), otherwise re-organize?



# Questions & Answers