Who Are We?

FreeBSD Release Engineering Team:

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- Konstantin Belousov <kib@FreeBSD.org>
- Bryan Drewery <bdrewery@FreeBSD.org>
- Marc Fonvieille <blackend@FreeBSD.org>
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- Xin Li <delphij@FreeBSD.org>
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- Hiroki Sato <hrs@FreeBSD.org>
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- Marius Strobl <marius@FreeBSD.org> (Deputy Lead)
- Robert Watson <rwatson@FreeBSD.org>
What Do We Do?

FreeBSD Release Engineering Process:

- New release & support model starting with FreeBSD 11.0:
  - 5-year branch lifetime
  - Support for X.Y ends 3 months after X.(Y + 1) is released
  - 9 months from 11.0 to 11.1, 11 months from 11.1 to 11.2
  - 32 months from 10.0 to 11.0, 25 months from 11.0 to 12.0

- FreeBSD Release Engineering Documentation: From release cycle announcement to Security Team handover

- Change management during repository freezes:
  - Commits to `src` require approval from `<re@FreeBSD.org>` obtained according to the Change Request Guidelines
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- Testing BETAs, RCs and RELEASEs

- Writing release documentation
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What Else Do We Do?

- Building snapshots for all active branches, typically once a week
- Coordination with other FreeBSD teams, for example with:
  - Core team for changes to the release schedule
  - Ports and Security teams for extension of release support
  - Helping with Errata Notices (ENs)
  - Maintaining `src/release` and external release building bits

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FreeBSD 11.2-RELEASE Schedule

ports/ quarterly branch: April 1, 2018
stable/11 slush: April 20, 2018
stable/11 freeze: May 4, 2018
BETA1 build starts: May 11, 2018
doc/ tree slush: May 12, 2018
BETA2 build starts: May 18, 2018
BETA3 build starts: May 25, 2018
doc/ tree tag: May 26, 2018
relenq/11.2 branch: June 1, 2018
RC1 build starts: June 1, 2018
stable/11 thaw: June 3, 2018
ports package builds: June 6, 2018
ports/ release tag: June 7, 2018
package release copy: June 7, 2018
RC2 build starts: June 8, 2018 <-- next
RC3 build starts: June 15, 2018 (If needed)
RELEASE build starts: June 22, 2018
RELEASE announcement: June 27, 2018
FreeBSD 11.2-RELEASE Cycle So Far

- Mostly business as usual:
  - 11.2-BETA2 had to be rebuilt due to an incomplete merge
  - 4 arm images turned out to be defunct (again)
  - The amd64 disc1.iso image overflew (again)
  - Several other bugs that were fixed or at least worked around

Open issues:
- Failed x86 Kyua tests [7], some broken i386 Kyua tests [8]
- WARs for Meltdown, Spectre & Spectre NG (arm/arm64, i386?)

POLA violations:
- Renaming of mlxen.ko to mlx4en.ko between 11.0 and 11.1
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How Can You Help?

▶ Most welcome: Testing BETAs, RCs, CURRENT and STABLE snapshots in multiple environments (VMMs, physical hardware ...)

▶ Monitoring of the FreeBSD Forums, mailing lists and PRs; let re@FreeBSD.org know when encountering something critical

▶ Proper testing of commits, preferably include unit tests

▶ Writing useful commit messages and using Relnotes: yes when appropriate

▶ Submission of merge approval requests according to the Change Request Guidelines [3]

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FreeBSD 12.0-RELEASE Schedule

head/ slush: August 10, 2018
head/ freeze: August 24, 2018
head/ KBI freeze: September 7, 2018
doc/ tree slush: September 7, 2018
doc/ tree tag: September 21, 2018
stable/12 branch: September 21, 2018
BETA1 build starts: September 21, 2018
head/ thaw: September 23, 2018
BETA2 build starts: September 28, 2018
ports/ quarterly branch: October 1, 2018
BETA3 build starts: October 5, 2018 (If needed)
releeng/12.0 branch: October 12, 2018
RC1 build starts: October 12, 2018
stable/12 thaw: October 14, 2018
ports package builds: TBD
ports/ release tag: TBD
RC2 build starts: October 19, 2018
RC3 build starts: October 26, 2018 (If needed)
RELEASE build starts: November 2, 2018
RELEASE announcement: November 6, 2018
Thank you very much for your attention!
Questions?
References


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