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Intro

- initial release at 2006
- independent and non-commercial
- general purpose
 - embedded (network) devices
 - servers and containers
 - desktops (Xfce 4)
- platforms: x86, x86_64, ARMhf, AArch64*

Alpine's motto

Small. Simple. Secure.

for power users

Small and lightweight

- Busybox userland (instead of GNU)
- musl libc (instead of glibc)
- apk-tools (instead of pacman, dnf, apt, ...)
- OpenRC
- mdev (instead of udev)
- LibreSSL (in upcoming v3.5)
- ...but you can install coreutils, eudev

Small

- Base installation in chroot (container)
 - 8 MiB / 260 files
 - 16 packages (only 6 third-party projects)
- Base installation on virtual server
 - 53 MiB / 1 222 files
 - 26 packages
- Base installation on metal server
 - 302 MiB / 4 686 files (a lot of kernel modules...)
 - 27 packages

Secure

- designed with security in mind
- kernel with grsecurity/PaX
- binaries compiled as PIE with stack smashing protection
- no system security disaster running as PID 1...*

^{*} https://www.agwa.name/blog/post/how_to_crash_systemd_in_one_tweet

Releases

- two stable releases per year
- security fixes for stable releases
 - 2 years for main repository
 - 6 months for community repository
- rolling edge branch

Packages

- main 2 027 aports*
- community 766 aports*
- testing 816 aports*

^{*} in edge on 2016-10-07, without subpackages

Who uses it anyway...?

Official **Docker** images*...

...so quite a lot people.

But many also in *real* containers,

servers, embedded devices, desktops...

^{*} https://www.brianchristner.io/docker-is-moving-to-alpine-linux/

Install in *a second* into chroot

!! Just for demonstration, it's not secure; always verify signatures !!

Try A Since

on **Serves** Serves.cz

Useful links

- https://alpinelinux.org/
- https://pkgs.alpinelinux.org/
- https://github.com/alpinelinux/aports/
- https://github.com/jirutka/aports/
- http://www.etalabs.net/compare_libcs.html