

Alpaquita Linux 25

Release Notes



Alpaquita Linux
Revision 1.0
December 2025

be//soft

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1. Introduction

The release notes give you late-breaking information about BellSoft [Alpaquita Linux](#) 25 release. Please read this document carefully, as it contains information that is not included in other BellSoft Alpaquita documents.

Kernel version

Alpaquita Linux kernel has been upgraded to version 6.12, which is the LTS version with the longest period of support. This kernel version will continue to be updated to include all required security and major functional fixes. Note that this release supports smooth kernel updates when the previous kernel version is not deleted right away and can be used for boot or in the rollback. See [Linux kernel](#) in [New Features and Changes](#) for more information.

Architecture

This release supports the following processors for all deliverables - iso, minirootfs, package repositories, and docker images.

- Intel (x86-64-v2)
- AMD 64-bit (x86-64-v2)
- AArch64 (ARMv8-A)

Modern CPUs can provide optimal extensions for better performance in the core system libraries. x86-64-v2 provides proper support for new CPU features (CMPXCHG16B, LAHF-SAHF, POPCNT, SSE3, SSE4_1, SSE4_2, SSSE3), vector instructions up to Streaming SIMD Extensions 4.2 (SSE4.2), Supplemental Streaming SIMD Extensions 3 (SSSE3), the POPCNT instruction (useful for data analysis and bit-fiddling in some data structures), and CMPXCHG16B (a two-word compare-and-swap instruction useful for concurrent algorithms).

2. New Features and Changes

This part lists new features and changes introduced in Alpaquita Linux 25 release.

Linux kernel

Alpaquita Linux 25 release contains new kernel build with configuration optimized for smaller size, better security, and performance:

- Better latencies and responsiveness
- Compressed modules to save disc space
- Dropped some old modules that have improper support or have known CVE defects

The following is a list of the notable kernel changes.

- The kernel's completely fair scheduler (CFS) algorithm has been replaced by Earliest Eligible Virtual Deadline First (EEVDF) task scheduler. It combines fairness and deadline-driven design, therefore improves scheduling tasks under mixed workloads, that is CPU-bound tasks and latency-sensitive tasks. It also has more predictable and well-defined scheduling logic.
- New `netkit` device for high-performance networking in containers.
- New device memory TCP (`devmem` TCP) helps to efficiently transfer a large amount of data from device to device. For example, `devmem` is used in machine-learning accelerators (transfer from storage into GPU/TPU memory) and distributed raw block storage applications.
- Notable new syscalls:
 - `mseal` - helps harden memory regions and limit exploitation
 - `cachestat` - returns cache state for files useful for cache-aware user-space tools
 - `listmount` and `statmount` - provide easier query of mount topology and mount attributes instead of parsing `/proc/self/mountinfo`
- Virtual dynamic shared object (vDSO) adds the `getrandom` function to eliminate syscall overhead.

Security scanning and SBOM

BellSoft has adapted a version of the OSV-scanner that is capable of scanning OS images, for example, containers for security issues and producing SBOM reports. The implemented version of the scanner has full support of BellSoft ecosystem, such as Alpaquita Linux and BellSoft Hardened Containers.

For more information, see [Getting started with OSV-Scanner for Alpaquita Linux](#).

MicroVM images

This release includes a pre-built microVM `vmlinux` and `rootfs` that are ready to use with FirecrackerVM and QEMU.

Firecracker is an open-source virtualization technology that is specifically designed for creating and managing secure, lightweight virtual machines (microVMs).

Alpaquita Linux is designed to work seamlessly with Firecracker VM:

- **Alpaquita Linux kernel (`vmlinux`)** - pre-built and optimized for Firecracker VM, ensuring compatibility and performance out of the box.
- **Root Filesystem (`rootfs`)** - even though the root filesystem can be easily created using Alpaquita's base Docker images, we also provide a **ready-to-use microVM `rootfs`** for your convenience. This `rootfs` can be downloaded and customized to meet your specific needs.

For more information, see [Alpaquita and FirecrackerVM](#).

The x86-64 packages build with `-fno-plt` by default

This change reduces the overhead of function calls to shared libraries by avoiding the Procedure Linkage Table (PLT), resulting in slightly more efficient code, faster start-up, and lower call latency.

Native support of Utmps in Glibc

Utmps is a library that provides implementation of `utmp/wtmp` functions. Musl lacks this functionality, but Glibc provides it out of the box. Therefore, all packages that were previously built with Utmps, use the Glibc's `utmp/wtmp` implementation now. As a result, the following `aports` are no longer available in

Glibc:

- `core/execline`
- `core/s6`
- `core/skalibs`
- `core/utmps`

Noticeable package updates

Glibc

The GNU C Library is upgraded to version 2.39.

The list below provides description of the new tunable packages and other changes:

- `glibc.cpu.plt_rewrite` can be used to enable PLT rewrite on x86-64. When enabled with non-lazy binding, the dynamic linker will rewrite indirect branches in PLT with direct branches.
- `glibc.mem.decorate_maps` can be used to add additional information on underlying memory allocated by the glibc (for instance, on thread stack created by `pthread_create` or memory allocated by `malloc`).
- `glibc.pthread.stack_hugetlb` can be used to disable Transparent Huge Pages (THP) in stack allocation at `pthread_create`.
- Added functions and changes:
 - `posix_spawnattr_getcgroup_np` and `posix_spawnattr_setcgroup_np` help you to set the `cgroupv2` in the new process in a race-free manner.
 - `pidfd_spawn` and `pidfd_spawn` are similar to `posix_spawn`, but instead of returning a process ID they return a file descriptor that can be used with other `pidfd` functions.
 - `pidfd_getpid` helps to retrieve the process ID associated with the process file descriptor created by `pid_spawn`, `fork_np`, or `pidfd_open`.
 - `strlcpy` and `strlcat` are derived from OpenBSD and are expected to be added to a future POSIX version.
- `libcrypt` has been removed from the GNU C Library. The new `libxcrypt` package maintained

separately provides binary backward compatibility with the former `libcrypt`.

For detailed information about changes, see the following:

- [glibc-2.39 changelog](#)
- [glibc-2.38 changelog](#)
- [LWN Article](#)

Musl (musl-default and musl-perf)

The `musl-perf` package has switched to the high-performance allocator implementation `mimalloc v2` release, replacing the default allocator in `musl`, known as `mallocng`. Because `mimalloc` is integrated to the `musl-perf`, there is no need to install any other `mimalloc` packages separately, when `musl-perf` is installed.

The `musl-perf` package is updated with the `glibc-2.39` memory function implementations. The new preferences and thresholds can be checked using the `ldd --list-diagnostics` command on the target machine.

`ldd` with `musl-perf` can now detect static-pie binaries to eliminate printing misleading information about required shared objects.

Both packages were upgraded to the `musl` release 1.2.5 with the following notable changes:

- The following new functions are added:
 - `statx` - provides enhanced file statistics like details on a file's creation time, data version number, and other new attributes depending upon what is supported by the underlying file-system. It also allows to specify which file information is needed via a request mask.
 - `preadv2` and `pwritev2` - add a fifth argument, `flags`, which modify the behavior on a per-call basis.
- Changes to the `printf` family of functions have been made for conformance to new standards.

For more information, see [musl release announcement](#).

OpenRC

[OpenRC](#) is updated to version 0.62. The following list outlines some notable changes:

- Added experimental support for user services.

- The names of cgroups for services started by OpenRC are now prefixed by "openrc." This is done because some services, such as docker, create their own cgroups.
- rc-status now has an `-i/--in-state` option to allow filtering of service status to a given state.

For more information, see the [upstream changelog](#).

See also [Setting up OpenRC init system](#) document about OpenRC in Alpaquita.

cgroups v2

Cgroups version 2, or "unified", is now the default cgroup mode in [OpenRC](#) (`rc_cgroup_mode`). The previous default was "hybrid", both version 1 and version 2.

Linux-firmware

`linux-firmware` package is now compressed with ZSTD compression. If you run a custom-built Linux kernel, make sure that `CONFIG_FW_LOADER_COMPRESS_ZSTD=y` is set in your configuration.

Other notable package updates

- Binutils [2.45](#)

Binutils packages are also available for cross targets now:

- `binutils-aarch64`
- `binutils-x86_64`

Note that the gold linker is considered deprecated since version 2.44 and will be removed in the future (see this [announcement](#) for details).

- Busybox [1.37.0](#)

On Glibc, Busybox now uses `utmp/wtmp` implementation provided by Glibc itself, instead of the external `Utmps` library. See [Native support of Utmps in Glibc](#) in [New Features and Changes](#).

Other notable changes:

- Added support for the `find -ok` option that prompts before executing.
- `seq` can accept negative parameters now.

- NTP client and server are Y2036/2038-ready.
- Implemented `ls -sh` to print human-readable allocated blocks.
- Added support for the `sort -h` option to compare human-readable numbers (such as, 2K 1G).

- Cloud-init [24.3](#)

Notable changes:

- Added support for a cloud-init "degraded" state, improving status reporting.
 - Improved logging by standardizing output to stderr.
 - Added support for busybox micro DHCP client (udhcpc).
 - Added support for Busybox adduser/addgroup.
 - Added support for FTP and FTP over TLS.
- Docker [28.3](#)

Notable changes:

- BuildKit became the default builder, offering performance and feature enhancements, such as improved caching and better handling of unused build arguments.
- Added port publishing improvements making containers more secure.
- Added support for recursively read-only mounts.
- Added `Subpath` field to the `VolumeOptions` making it possible to mount a subpath of a volume.
- `iptables` is no longer experimental.

- Dotnet [8.0.21](#)

.Net runtime version 8 LTS, available in Alpaquita Linux, contains both runtime and SDK for developing and running modern .Net and ASP.Net applications.

- Dracut [107](#)

This release is based on the new community-maintained fork, dracut-ng. The original dracut project is now abandoned, with the last tag "059".

The new release has a decent amount of bug fixes, better compatibility and support for the recent kernels, its modules, and firmware.

- GCC [14.3](#)

Notable changes:

- Better device offload support for OpenMP and OpenACC
- Link-time optimization (LTO) improvements
- New option `-fhardened` that enables a set of standard hardening flags. You can see the options it enables via `gcc --help=hardened` command.
- Support for many new CPU targets and ISA extensions:
 - AArch64 - new CPUs are supported: Ampere-1{A,B}, Cortex-A{520, 715, 720}, Cortex-X{1C,3,4}, Cobalt-100 and Neoverse V2.
 - x86-64 - includes support for AVX10.1 intrinsics and support for new AMD (Zen 4 & 5) and Intel (Clearwater Forest, Panther Lake, etc.) CPUs microarchitectures.
- Adds more of the C23 standard and new command-line options, such as `-std=c23`, `-std=gnu23`
- Experimental but mature support for C++23 and even some upcoming C++26 features
- GCC can now emit diagnostics in SARIF (a structured JSON format useful for static-analysis tools)
- Improved and expanded static-analysis warnings

Note that GCC still uses the x86-64-v2 microarchitecture as the default setting to ensure compatibility with older hardware.

[GCC 13 Release Series Changes](#), [GCC 14 Release Series Changes](#), [Usage of libgomp](#).

- Libvirt [11.3](#)

Notable changes since Alpaquita Linux 23-lts:

- qemu - Implement external snapshot deletion and reverting.
- qemu - Support for passing FDs instead of opening files for `<disk>`.
- qemu - Change default machine type for ARM and RISC-V to `virt`.
- qemu - Introduce support for `igb` network interface model.
- qemu - Basic support for use of "VFIO variant" drivers.
- network/qemu/lxc - Support vlans on standard Linux host bridges.
- Adapt to musl-1.2.4 where LFS64 symbol aliases were removed.

- Switch from YAJL to json-c for JSON parsing and formatting.
- LLVM [20 \(default\)](#), [19](#)

In Alpaquita Linux 25-lts, two LLVM versions are available: 20 (default) and 19. Also, LLVM is now built with `LLVM_USE_PERF=ON`, which enables building support for Perf (linux profiling tool) JIT support.

- MariaDB [11](#)

The flagship feature of MariaDB 11 is the new optimizer cost model, which is able to more accurately predict the actual cost of each query execution plan.

- Nginx [1.28](#)

This update brings memory usage and CPU usage optimizations in complex SSL configurations, automatic re-resolution of hostnames in upstream groups, performance enhancements in QUIC, OCSP validation of client SSL certificates, and more.

For a list of changes, see the release notices for Nginx [1.24](#), [1.26](#), and [1.28](#).

- Node.js [22](#)

Notable changes:

- V8 is updated to version 12.4, which includes new features like WebAssembly Garbage Collection, `Array.fromAsync`, Set methods and iterator helpers.
- V8's Maglev Compiler is now enabled by default. Maglev improves performance for short-lived CLI programs.
- The default High Water Mark for streams was increased from 16KiB to 64KiB. This provides a performance boost across the board at the cost of slightly higher memory usage.
- Added a built-in WebSocket client.

For a list of changes, see the release announcements for Node.js [19](#), [20](#), [21](#), [22](#).

- Perl [5.40](#)

Notable changes:

- Unicode 15.0 is supported.
- Added a new experimental class feature for defining object classes.
- The regex quantifiers limit is increased to `I32_MAX`.
- The `try/catch` feature is no longer experimental.

For a list of changes, see the upstream changelogs for Perl [5.38](#) and [5.40](#).

- PHP [8.3](#)

Notable changes:

- Readonly classes.
- It is now possible to use `null`, `true` and `false` as stand-alone types.
- Locale-independent case conversion.
- Support for constants in traits.
- Typed class constants.
- Dynamic class constant fetch.
- A new `#[\Override]` attribute to ensure that a method with the same name exists in a parent class.

For a list of changes, see the release announcements for PHP [8.2](#), [8.3](#).

- PostgreSQL [17](#)

Notable changes:

- Performance improvements of existing functionality through new query planner optimizations like parallelizing `FULL` and `RIGHT` joins.
- More syntax was added from the SQL/JSON standard, including constructors and predicates such as `JSON_ARRAY()`, `JSON_ARRAYAGG()`, and `IS JSON`.
- A new internal memory structure for the vacuum process that consumes up to 20x less memory and also improves performance.
- Logical replication enhancements for high availability and upgrades.

For a list of changes, see the release announcements for PostgreSQL [16](#), [17](#).

- Python [3.12](#)

Notable changes:

- More flexible f-string parsing.
- Support for the buffer protocol in Python code.
- A new debugging/profiling API.
- Support for isolated sub-interpreters with separate Global Interpreter Locks.

- Support for the Linux perf profiler to report Python function names in traces.
- Many large and small performance improvements, delivering an estimated 5% overall performance improvement.

For more information, see the release [announcement](#).

- QEMU [10.0](#)

Notable changes:

- block - virtio-scsi multiqueue support for using different I/O threads to process requests for each queue
- VFIO - improved support for IGD passthrough on all Intel Gen 11/12 devices
- ARM - emulation support for Secure EL2 physical and virtual timers
- x86 - CPU model support for Clearwater Forest and Sierra Forest v2
- x86 - faster emulation of string instructions

For more information, see this [announcement](#).

- Redis [8.0](#)

Notable changes:

- Redis Query Engine is now an integral part of Redis 8.
- A new I/O threading implementation, which enables throughput increase on multicore environments.
- An improved replication mechanism that is more performant and robust.
- New hash commands: HGETDEL, HGETEX, and HSETEX.

For more information, see [Redis 8 release notes](#).

- Ruby [3.4](#)

Notable changes:

- YJIT (JIT compiler) is no longer experimental.
- WASI based WebAssembly support.
- Regexp improvements against regular expression DoS.
- Introduction of the Prism parser.

- Memory usage improvements.
- Introduce of it to reference a block parameter with no variable name.

For a list of changes, see the release announcements for Ruby [3.2](#), [3.3](#), [3.4](#).

- Rust [1.87](#)

Notable changes:

- The `rust-stdlib` package is now part of the `rust` package
- Rust source code is now in a new separate package `rust-src`.
- The `rust-analysis` package was removed (this component has not been available since version 1.69).
- Add support for UEFI targets.

See also the upstream [changelog](#).

Overview of changed aports

Openjdk-related aports availability

Aport	23-lts	25-lts
core/openjdk8	yes	yes
core/openjdk11	yes	yes
core/openjdk11-container-jre	yes	yes
core/openjdk11-jvmci	yes	no
core/openjdk11-lite	yes	yes
core/openjdk17	yes	yes

Aport	23-lts	25-lts
core/openjdk17-container-jre	yes	yes
core/openjdk17-crack	yes	yes
core/openjdk17-lite	yes	yes
core/openjdk21	yes	yes
core/openjdk21-container-jre	yes	yes
core/openjdk21-crack	yes	yes
core/openjdk21-lite	yes	yes
core/openjdk22	yes	no
core/openjdk22-container-jre	yes	no
core/openjdk22-lite	yes	no
core/openjdk23	yes	no
core/openjdk23-container-jre	yes	no
core/openjdk23-lite	yes	no
core/openjdk24	yes	yes
core/openjdk24-container-jre	yes	yes
core/openjdk24-lite	yes	yes
core/openjdk25	yes	yes

Aport	23-lts	25-lts
core/openjdk25-container-jre	yes	yes
core/openjdk25-lite	yes	yes
core/openjdk-nik-23-17	yes	yes
core/openjdk-nik-23-21	yes	yes
core/openjdk-nik-24-22	yes	no
core/openjdk-nik-24-23	yes	no
core/openjdk-nik-24-24	yes	yes
core/openjdk-nik-25-25	yes	yes

Added aports

Aport	Notes
core/bsd-compat-headers	Part of the removed core/libc-dev.
core/isl26	
core/libpsl	Required for PSL support in core/curl.
core/libxcrypt	Provides crypt lib removed in glibc-2.39.
core/musl-legacy-error	

Aport	Notes
universe/ada	
universe/azure-agent	
universe/babeltrace	
universe/base64	
universe/bats-core	
universe/boost1.84	
universe/cargo-auditable	
universe/cbindgen	
universe/clang19	
universe/clang20	
universe/cxxopts	
universe/debian-devscripts	Provides useful checkbashisms and hardening-check utilities.
universe/docker-cli-buildx	
universe/doctest	
universe/dotnet8-runtime	
universe/dotnet8-sdk	

Aport	Notes
universe/dotnet8-stage0	
universe/fast_float	
universe/font-terminus	
universe/font-unifont	
universe/gn	
universe/google-guest-agent	
universe/libclc	
universe/libdecor	
universe/libexif	
universe/libgdiplus	
universe/libgit2	
universe/libtraceevent	
universe/lld19	
universe/lld20	
universe/llhttp	
universe/llvm-runtimes	
universe/llvm19	

Aport	Notes
universe/llvm20	
universe/log_proxy	
universe/lttng-tools	
universe/lttng-ust	
universe/maturin	
universe/mono	
universe/nftables	
universe/nihtest	
universe/pam-rundir	May be required by core/openrc.
universe/parallel	
universe/patchelf	
universe/perl-class-inspector	
universe/perl-cpan-requirements-dynamic	
universe/perl-extutils-cchecker	
universe/perl-extutils-hascompiler	
universe/perl-file-sharedir	
universe/perl-file-sharedir-install	

Aport	Notes
universe/perl-file-which	
universe/perl-http-cookiejar	
universe/perl-inc-latest	
universe/perl-ipc-run3	
universe/perl-syntax-keyword-try	
universe/perl-test-deep	
universe/perl-test-simple	
universe/perl-xs-parse-keyword	
universe/php83	
universe/postgresql17	
universe/procps-ng	
universe/py3-astor	
universe/py3-async_generator	
universe/py3-cachetools	
universe/py3-calver	
universe/py3-chardet	
universe/py3-curio	

Aport	Notes
universe/py3-dependency-groups	
universe/py3-fastjsonschema	
universe/py3-flaky	
universe/py3-hatch-fancy-pypi-readme	
universe/py3-invoke	
universe/py3-jsonschema-specifications	
universe/py3-jwt	
universe/py3-openssl	
universe/py3-outcome	
universe/py3-passlib	
universe/py3-pybind11	
universe/py3-pyproject-api	
universe/py3-pyproject-hooks	
universe/py3-pytest-env	
universe/py3-pytest-httpserver	
universe/py3-pytest-rerunfailures	
universe/py3-pytest-tornasync	

Aport	Notes
universe/py3-python-versioneer	
universe/py3-py zmq	
universe/py3-referencing	
universe/py3-roman-numerals	
universe/py3-rpds-py	
universe/py3-scripttest	
universe/py3-scrypt	
universe/py3-sniffio	
universe/py3-sphinx-issues	
universe/py3-sphinxcontrib-jquery	
universe/py3-syrupy	
universe/py3-time-machine	
universe/py3-tornado	
universe/py3-trio	
universe/py3-trove-classifiers	
universe/py3-trustme	
universe/rdfind	

Aport	Notes
universe/rootlesskit	
universe/ruby-base64	
universe/ruby-bigdecimal	
universe/ruby-debug	
universe/ruby-kramdown-parser-gfm	
universe/ruby-matrix	
universe/ruby-net-ftp	
universe/ruby-net-imap	
universe/ruby-net-pop	
universe/ruby-net-smtp	
universe/ruby-prime	
universe/ruby-racc	
universe/ruby-rake-compiler	
universe/ruby-rbs	
universe/ruby-rr	
universe/ruby-rss	
universe/ruby-test-unit-rr	

Aport	Notes
universe/ruby-test-unit-ruby-core	
universe/ruby-typeprof	
universe/rust-bindgen	
universe/sanlock	
universe/scudo-malloc	
universe/simdjson	
universe/simdutf	
universe/spirv-llvm-translator	
universe/webrtc-audio-processing-1	
universe/webrtc-audio-processing-2	
universe/wireplumber	

Replaced, renamed, merged, or split aports

Original aport(s)	New aport(s)	Notes
core/fuse	core/fuse3	All aports that depended on core/fuse use core/fuse3 now so core/fuse was removed.

Original aport(s)	New aport(s)	Notes
core/ifupdown	core/ifupdown-ng	core/ifupdown is considered unmaintained.
core/libc-dev	core/glibc, core/bsd-compat-headers, core/musl-default, core/musl-perf	core/libc-dev was a meta package that pulls in a correct libc dev and utils packages, but now they are directly provided by glibc and musl aports. core/bsd-compat-headers was part of core/libc-dev and provides header files that are not included in musl, but there are aports that require them.
universe/bats	universe/bats-core	Renamed.
universe/boost1.80	universe/boost1.84	
universe/clang15	universe/clang19, universe/clang20	
universe/libxfont	universe/libxfont2	
universe/llvm15	universe/llvm19, universe/llvm20	
universe/php81	universe/php83	
universe/pipewire-media-session	universe/wireplumber	
universe/postgresql15	universe/postgresql17	
universe/procps	universe/procps-ng	

Original aport(s)	New aport(s)	Notes
universe/py3-pep517	universe/py3-pyproject-hooks	
universe/terminus-font	universe/font-terminus	Renamed.
universe/unifont	universe/font-unifont	Renamed.
universe/webRTC-audio-processing	universe/webRTC-audio-processing-1, universe/webRTC-audio-processing-2	

Aports moved to a different repository

Original aport	Current aport
universe/sudo	core/sudo

Removed aport

Aport	Notes
universe/font-bitstream-speedo	This font is retired by xorg (see DeprecatedInX11R7).
universe/libpthread-stubs	Available in both musl and glibc out of the box.

Aport	Notes
universe/libutempter	It was only added as a dependency for universe/screen but now universe/screen is built without libutempter support.
universe/makedepend	It was only added as a dependency and is not required by any aport now.
universe/perl-io-captureoutput	It was only added as a dependency and is not required by any aport now.
universe/py3-setuptools-stage0	universe/py3-setuptools can be bootstrapped without stage0 now.
universe/talloc	It was only added as a dependency and is not required by any aport now.
universe/ucl	It was only added as a dependency and is not required by any aport now.

3. Known Issues

No known issues are reported for this release.

Report issues to info@bell-sw.com.

4. Security Bug Fixes

This release includes a number of bug and security fixes.

5. Installation Process

Alpaquita installation procedures are described in the [Alpaquita Linux Installation Guide](#). Typical process for installing from the ISO image requires access to a command line interpreter and contains several steps.



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Release Notes

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