Operating systems in the ecosystem

The operating systems the Exponential ecosystem runs on, by the four tiers of the operating system support page - tested here, known to work, expected to work, not possible today - and how users can move a system up a…

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Exponential runs on "almost any [operating system] that runs PHP 8.0 or later (PHP 7.4 usable without support)" (`README.md`, "Requirements"). The help sorts them into four tiers (Operating system support).

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The four tiers

Tier	Meaning
1. Tested here	"The project runs Exponential on it every day, or its CI runs the test suites on it on every push"
2. Known to work	Covered by the documentation, packages or Velocity's own CI, or the same PHP on the same kernel as tier 1
3. Expected to work	A maintained PHP 8.x exists and nothing stands in the way; "a reasoned expectation, not a test result"
4. Not possible today	No PHP 8 exists, or the hardware cannot run it

Examples by tier

Tier	Systems (selection)
1	AlmaLinux 9 (the project's development server); Ubuntu in GitHub Actions (the CI)
2	RHEL 9 and 10 and its rebuilds, Debian 12 and 13, Ubuntu 22.04 and 24.04, Alpine, Plesk hosts, FreeBSD 14, DragonFly BSD, macOS, Windows, Docker and Podman containers
3 and 4	See the full page

Velocity publishes `.deb` packages, a macOS binary and container images on `ghcr.io/se7enxweb/exponential-velocity` (Operating system support).

Moving a system up

"If you run Exponential on a tier 3 system, please tell the project on the community tracker or the software tracker, and the row moves up" (Operating system support). That is a contribution any user can make (Filing a bug).

Related pages

- The PHP stack
- Operating system support
- Operating systems for hosts
- Velocity packages and binaries
- Free documentation: this page is free to copy, translate and improve under the GNU FDL 1.3.

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