

penguins-eggs

Penguin's eggs are generated and new birds are ready to fly...

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Changelog

We switched to a version number based on year, month, day, and release number. I hope it will be more clear and useful.

Versions are listed on reverse order, the first is the last one.

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- `produce --script`: copied directories: `/etc` and `/boot` are not overwritten a second time when the `bind` script is run and are not deleted by `ubind`. This led to a malfunction of the `produce --script` command and the deletion of the live user in the generated ISO.
- `produce --script`: added patch to the script `mksquashfs` to emulate livecd structure of `archiso/miso`. Now option: `sudo produce --script` can be successfully used on every distro.
- `Alpine/Fedora`: finally `calamares` is configured and installing. Remain to solve for `OpenSUSE`.

penguins-eggs_25.7.12-1 **back to future!**

A few months ago - around March - I tried to introduce building complete systems from containers. This required a global review of the methods for getting the kernel name and version. Neither `uname -r` nor `/proc/cmdline` parsing can be used in containers.

Having received several reports from users who have the system with several kernels installed, I decided to return to the traditional method for common installed systems.

I also retraced my steps for the classes `utils.tsx` and `distro.ts`, which had been restructured with the help of AI.

The problem here was the fact that it was impossible for me to maintain them. AI has a broader knowledge of language and methodologies than myself, but also excessively tortuous from a logical point of view. However, I count-in the future-to partially recover the good parts of this work by rewriting it from scratch.

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I have greatly simplified boot management especially on UEFI machines: previously for each distribution I used the grub of the distribution itself, which was very fine but time-consuming in terms of code maintenance. Now I use for booting from live CD the Debian grub and I do the same for booting via PXE and, this, has allowed me to simplify the code considerably.

All bootloaders: grub, ipxe and syslinux, are now collected in the bootloaders folders and contained in the package itself.

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These days I have been doing a lot of work on remote installation via PXE, on some long neglected distributions: alpine, opensuse, etc.

This is the actual situation:

- alpine: remaster OK, installation CLI OK, calamares KO, PXE boot OK, install from PXE OK
- arch: remaster OK, installation CLI OKk, calamares OK, PXE boot OK, install from PXE OK
- debian: remaster OK, installation CLI OK, calamares OK, PXE boot OK, install from PXE OK
- fedora: remaster OK, installation CLI OK, calamares KO, PXE boot OK, install CLI from PXE KO
- opensuse: remaster OK, installation CLI OK, calamares KO, PXE boot OK, install CLI from PXE KO

Summary of Penguins-Eggs Changelog 10.1.x

This summary categorizes the updates into major features, expanded distribution support, installer improvements, and other key refinements to provide a clear overview of the project's progress.

Major Features & Enhancements

- **AI-Powered Refactoring:** In version **10.1.1**, the developer began using AI for intensive code refactoring, significantly speeding up development and improving code quality.
- **New pods Command:** Version **10.1.0-2** introduced the experimental **eggs pods** command, which allows users to create minimal live ISO images directly from **podman** containers.
- **Container-Based Builds:** A major "underground" change in version **10.1.0-1** enabled building live images of one distribution on a host system running a different one (e.g., creating an Arch Linux image on a Debian system).
- **New GUI eggsmaker:** A new, usable graphical user interface called **eggsmaker** was introduced in version **10.0.61**, making the tool more accessible to users who prefer a GUI.
- **Installation Modes:** The installation options were simplified in version **10.0.60**. The LVM2 mode was removed, leaving three primary modes: **Erase disk**, **Erase disk/Encrypted**, and **Replace partition**.
- **Secure Boot Support:** Work was done in version **10.0.59** to enable ISOs to boot with Secure Boot enabled on UEFI systems, with success on Debian Bookworm and a manual workaround for Ubuntu.

Expanded Distribution Support

The project has significantly broadened its compatibility across different Linux families.

- **RPM-Based Distro**s: A major breakthrough in version **10.0.54** enabled the creation of bootable UEFI ISO images for **Fedora**, **AlmaLinux**, **RockyLinux**, and **openSUSE**. Fedora support was a major focus in version **10.0.36**.
 - **Alpine Linux**: Support for **Alpine Linux** was reintroduced and improved across several versions, including the creation of Calamares packages, fixes for the **krill** installer, and a more streamlined live boot process (**10.1.1-26**, **10.0.34**, **10.0.25**).
 - **Arch Linux**: Btrfs support was improved, and a new Calamares package was aligned with the latest release (**10.1.1-26**, **10.0.46**).
 - **Newer Releases**: Support was added for recent distribution releases, including **LMDE 7 (Gigi)**, **Linux Mint 22.2 (Zara)**, **Ubuntu Noble**, and **Devuan Excalibur** (**10.1.1-26**, **10.0.42**, **10.0.14**).
 - **Other Distro**s: Efforts were made to add support for **openmamba**, **VoidLinux**, and **ALDOS** (**10.0.51**).
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Installer Improvements (Krill & Calamares)

Both the command-line installer (**krill**) and the graphical installer (**calamares**) received significant updates.

- **Krill (TUI Installer)**:
 - Added support for **encrypted installations** and LVM2 (**10.0.59**).
 - The user interface was completely revised with a new spinner and a more intuitive layout (**10.0.38**).
 - Added a **chroot** option, allowing users to make final package changes before rebooting the newly installed system (**10.0.3**).
 - User creation is now standardized, taking default groups from the Calamares configuration to ensure consistency (**10.1.1-26**).
 - **Calamares (GUI Installer)**:
 - Configuration was updated to automatically select the parent system's original filesystem as the default (**10.0.46**).
 - Branding parameters (like support URLs) are now pulled from **/etc/os-release** for better integration (**10.0.4**).
 - Fixed issues to get Calamares working successfully on newer releases like **Ubuntu Noble** and **Linux Mint 22** (**10.0.22**).
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Other Key Changes & Refinements

- **Development & Packaging**: The project's build system was modernized to support both CommonJS and ECMAScript modules. The official package name was changed from **eggs** to **penguins-eggs** to reflect this major update (**10.0.0**, **9.8.0**).
- **Dependency Management**: Unnecessary dependencies like **lsb_release**, **pxelinux**, and **isolinux** were removed to streamline the tool (**10.0.57**, **10.0.45**, **10.0.42**).
- **ISO Creation**: The logic for creating ISOs was refined. The **--udf** flag was removed in favor of automatically detecting **genisoimage** vs. **xorriso** to handle large ISOs compatible with Windows tools like Rufus (**10.0.18**, **10.0.15**).

- **Code Cleanup:** A significant amount of old, unused code was removed, particularly code related to the initial plan of distributing **eggs** via npm packages (**9.8.2**).

CHANGELOG.d

You can find old changelogs under [CHANGELOG.d](#).

Help

Don't esitate to ask me for suggestions and help. I hope to receive [feedback](#).

That's all Folks!

No need other configurations, penguins-eggs are battery included or better, as in the real, live is inside! 😊

More informations

There is a [Penguins' eggs official guide](#) and same other documentation - mostly for developers - on the repository [penguins-eggs](#) under [DOCUMENTATION](#). I want to point out [hens](#), [different species](#) a brief how to use eggs in Debian. Arch and Manjaro, and the post [Arch-naked](#) on the blog which describes how to create an Arch naked live, install it, then dress the resulting system with a graphics development station.

You can contact me by [mail](#) or follow me on [blog](#), [facebook](#), [mastodom](#), [github](#), [jtsi](#), [reddit](#), [telegram](#), [twitter](#).

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