penguins-eggs

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

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.

penguins-eggs_25.7.14-1

- `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 successully 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.

penguins-eggs_25.7.10-1

I have greatly simplified boot management expecially 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.

penguins-eggs_25.7.7-1

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 Distros**: 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 Distros**: Efforts were made to add support for **openmamba**, **VoidLinux**, and **ALDOS** (**10.0.51**).

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**).

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, differents 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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