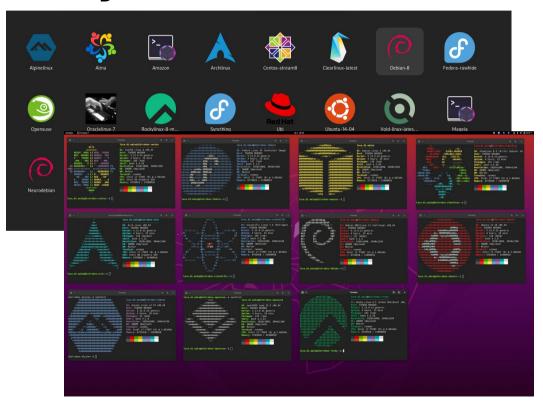# What is Distrobox?

- Simple POSIX shell

- Wraps Podman or Docker

    - Abstracts most of the command length and complexity

    - Seamless integration with host environment

Why was it born?

- **Flatpak**:
  your favorite **apps**, unbound from the base operating system

- **Container**:
  your **service**, unbound and isolated from the base operating system

- **Distrobox**:
  your entire **userspace** unbound and integrated with the base operating system

Why not chroot?

- Simpler to use than pure chroot

- Battle-tested container engines

- Easy to use image management

- Healthy ecosystem of container images **ready to use**

Integration

- Host integration:

  - Wayland and X programs
  - Audio (Pipewire/Pulse)
  - SSH and GPG Agent
  - Automatically Generate Desktop Entries
  - Launch host's command from container and vice versa

  - User systemd
  - User D-Bus
  - Removable devices
  - Optionally isolated systemd instance

Usage

- Intuitive management commands
  - **create, enter, list, rm, stop**
- Utilities
  - **upgrade** — will keep all containers up to date
  - **ephemeral** — create, enter, destroy a temporary container
  - **generate-entry** — create a desktop icon for your container

Use Cases

- **Immutable desktop**
  - Endless OS (https://endlessos.com/)
  - Fedora Silverblue/Kinoite (https://getfedora.org/it/silverblue/, https://kinoite.fedoraproject.org/)
  - OpenSUSE MicroOS (https://microos.opensuse.org/)
  - SteamOS 3 (https://github.com/ValveSoftware/SteamOS/)

- **Minimize base operating system**
  - Less moving parts that can break
  - Userland can be easily replaced
  - Easier to make reproducible

Use Cases

- **Sudoless setups**
  - Enterprise setups where you cannot be sudo on the machine, but you need software!
- **Mix and match distro**
  - Custom kernel for abandoned hardware stuck on ancient distribution
  - Access to latest software on an LTS/Stable release distribution
  - Access old software on a bleeding edge distribution:

    Distrobox ensures compatibility almost 10 years back in time

Diversity

- Host compatibility with **all the major distributions**

- Container compatibility with **over 60 combinations** of distributions and major versionse

- Mix and match distributions and versions to enhance software availability

Integration

DEMO TIME

TL;DR

Distrobox enables both **backward** and **forward compatibility** with software, and freedom to use **whatever distribution** you're most comfortable with

Contribute

- https://github.com/89luca89/distrobox
  - Please read: CONTRIBUTING.md
- Report bugs
- Report typso (there are always **typsos**!)
- Suggest improvements
- Whatever you feel like contributing, you're welcome!