



# The present and future of Fedora Flatpaks

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August 7, 2021

# Overview

- ▶ Introduction to Flatpak
- ▶ Fedora Flatpaks
- ▶ RHEL Flatpaks
- ▶ Flatpak in the future



# Introduction to Flatpak

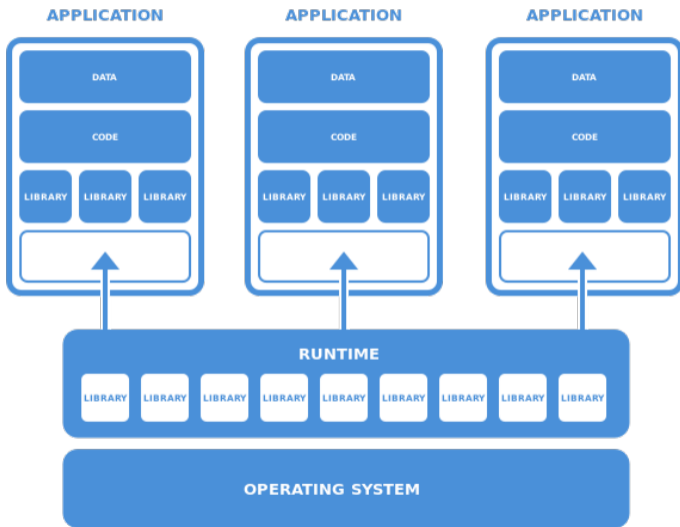


# What is a Flatpak?

- ▶ New way to distribute applications
- ▶ Distribution: Flathub, Fedora registry...
- ▶ Platform (SDK & Runtime)
- ▶ Sandboxing



# What is a Flatpak?



# Flatpak advantages

- ▶ Cross distro
- ▶ Reproducible builds
- ▶ Develop against a specific stack version
- ▶ Isolated from your system and user's system
- ▶ Security by default - apps are sandboxed
- ▶ Permissions handling system built-in



# Fedora Flatpaks



# Fedora Flatpaks

- ▶ Based on existing RPMs
  - ▶ Better control over the source code (RPMs are maintained, revised, trusted)
  - ▶ OCI images/containers instead of ostree
- ▶ Using Modularity - rebuild sources with /app prefix
- ▶ <app>.yaml - list of “private” dependencies
- ▶ container.yaml - most importantly, list Flatpak permissions
- ▶ registry.fedoraproject.org
- ▶ Process:
  - ▶ Module build (with /app prefix)
  - ▶ Container build (Flatpak)
  - ▶ Distribution





# Current state of Flatpaks in Fedora

- ▶ 85 applications
- ▶ Delta updates
- ▶ Langpacks
- ▶ debuginfo
- ▶ New Tracker3 portals



# RHEL Flatpaks



# Red Hat Enterprise Linux Workstation

- ▶ Disclaimer
- ▶ Stability in future-ready infrastructure
- ▶ Consistent platform for development
- ▶ Support



# Flatpaks in RHEL

- ▶ Runtimes target specific RHEL versions
- ▶ Tech preview
- ▶ First applications as Flatpaks (LibreOffice, GIMP...)
- ▶ Available at [registry.redhat.io](https://registry.redhat.io)



# Advantages of RHEL Flatpaks

- ▶ Single Flatpak stream for all RHEL versions
- ▶ Bundled single-purpose dependencies
- ▶ Better user experience around updates
- ▶ Based on RHEL RPMs



# Future of Flatpaks



# Future

- ▶ Better Portal support
- ▶ Get Flatpaks to the maintainers and packagers (ideally, RPM and Flatpak should be done at one time)
- ▶ CVE tracking
- ▶ debug story



**Questions?**

