

Introducing Fedora Kinoite



Timothée Ravier CoreOS engineer at Red Hat

[**m**] @siosm:matrix.org

🅑 @siosm

➤ travier@redhat.com

🚯 tim.siosm.fr

Agenda

- Fedora?
- Why?
- Apps?
- Future?

Travier@redhat.com



What is Fedora Kinoite?

- Fedora Kinoite is Fedora (attached to KDE SIG)
- Build **100%** from Fedora RPM packages
- Immutable desktop operating system
- Featuring the **KDE Plasma** desktop environment
- First release planned for Fedora 35



Travier@redhat.com

Why Fedora?

- Fedora provides a **stable** and **up to date** software stack
 - Wayland, Pipewire, systemd user sessions, etc.
 - Enabled by default in Fedora 34
- KDE packaging follows **latest upstream release**
- Upstream first for patches and configuration changes
- Active KDE SIG with weekly meetings (Monday 1800 UTC)

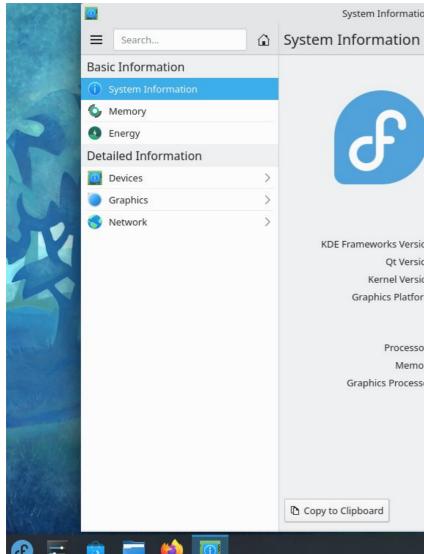
What makes it different?

- Based on **rpm-ostree** to manage the system
- **Flatpak** to manage applications
- **podman** to manage containers for tools and development

• Close sibling of Fedora Silverblue



J



Fedora 35 Kinoite http://fedoraproject.org/

System Information — Info Center

Software

KDE Frameworks Version: 5.83.0 Qt Version: 5.15.2 Kernel Version: 5.13.0-0.rc5.20210611git929d931f2b40.42.fc35.x86_64 (64-bit) Graphics Platform: Wayland

Hardware

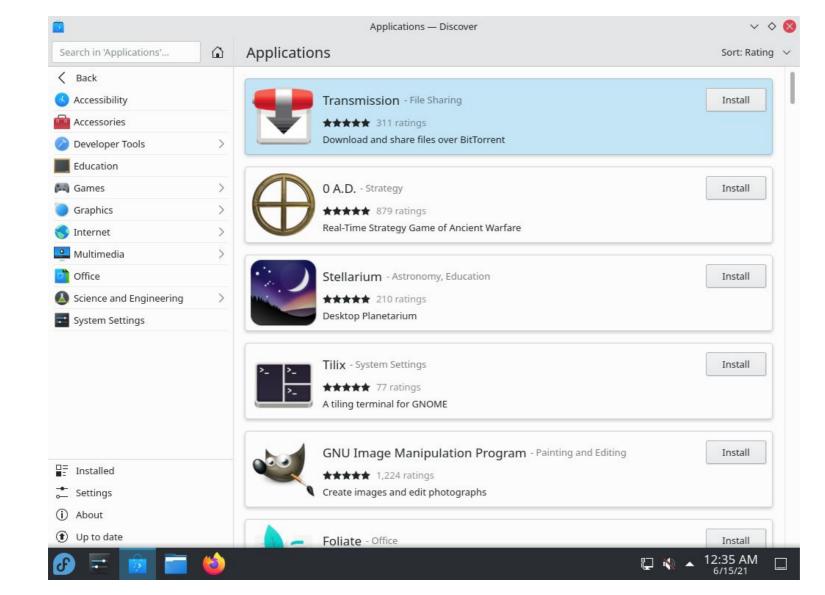
Processors: 4 × Intel Core Processor (Broadwell, IBRS) Memory: 3.8 GiB of RAM Graphics Processor: Ilvmpipe

Copy to Clipboard



V ~ 6











Current status



- Official support in progress in Fedora, planned for F35
 https://pagure.io/fedora-kde/SIG/issue/4
- **<u>Official</u> development builds** available (Rawhide)
 - <u>https://discussion.fedoraproject.org/t/how-to-test-fedora-kinoite/30405</u>
- **Unofficial stable builds** available (Fedora 34)
 - <u>https://fedoramagazine.org/discover-fedora-kinoite/</u>
 - Still **100%** Fedora RPMs
 - But signed with my key (and not Fedora's one)

What is the goal of Fedora Kinoite?

Easy desktop experience for users

- **rpm-ostree** makes system updates a non-event
 - System is shipped as a **single consistent image**
 - Atomic updates and rollbacks
- Flatpak makes installing and updating applications easy
 - Updates independent of system updates
 - **Flathub** (mixed FOSS and proprietary)
 - Fedora (FOSS only)
- toolbox keeps all Fedora packages at hand (fallback)

Accessible for testers / early adopters

- Easy to try the next version thanks to **rpm-ostree**
 - Without giving up **stability** Ο
 - Keeps all your Flatpak apps as-is Ο
 - Easy rollback to a previous known good version Ο
- Can try nightly / development **Flatpaks** in parallel Keep stable applications **available** as fallback Ο Ο
 - Try Flatpaks built from **PRs** (see <u>GitHub action</u>)

Safer environment for developers

- rpm-ostree enables controlled change to the system
 - Replace any RPM on the system, **live**
 - Revert live or go back to a clean state by rebooting
- "All included" development environments with **Flatpaks**
 - Any libraries, any version, any framework
 - **No restrictions** or compatibility issues with what's on the system



Where are the (KDE) apps?

Flatpaks from Fedora

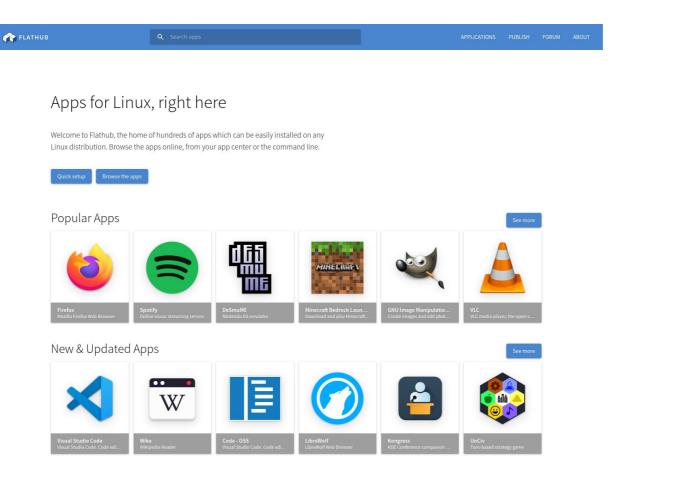
- Good selection of non-KDE apps already available
- KDE Apps as Fedora Flatpaks still in-progress
 <u>https://pagure.io/fedora-kde/SIG/issue/13</u>
 - Planned for Fedora 35
- Will quickly bring all existing **packaged** KDE Apps
 - Same version as those available via RPMs
 - Guaranteed to be **FOSS**



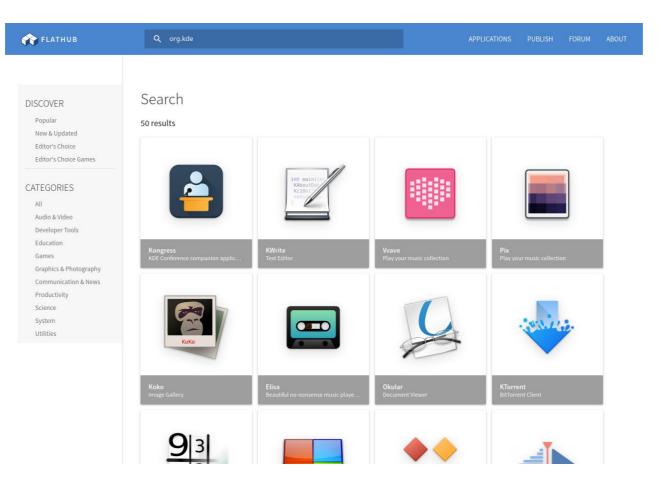
Flatpaks from Flathub

- A lot of non-KDE apps already available
- Quickly expanding list of KDE Apps on Flathub
 - <u>https://flathub.org/apps/search/org.kde</u>
 - Closely follows latest upstream stable releases
- Best place to fix apps close to **upstream** to make them **fully compatible** with Flatpak sandboxing
- Lots of small and easy tasks for beginners in
 - Flatpak packaging of existing apps
 - KDE Apps development to fix incompatibility issues

Apps on Flathub



KDE Apps on Flathub (search org.kde)



What's the future for Fedora Kinoite?

Our plans for the future

- Be the best platform to try the **next version** of
 - **KDE Plasma**: versions with Plasma Beta releases
 - KDE Apps: make nightly Flatpaks accessible
- Testing and multiple delivery streams
 - Classic Stable (latest two Fedora) and Rawhide streams
 - Automated testing before release (OpenQA)
 - Stable+Beta/Nightly Plasma releases
 - Enable manual testing by early adopters

Logo missing here (in progress too!)

• Join us!

- <u>https://fedoraproject.org/wiki/SIGs/KDE</u>
- <u>https://pagure.io/fedora-kde/SIG/issues</u>
- Weekly meetings on Monday 1800 UTC
- Try out official builds (development, Fedora Rawhide)
 - <u>https://discussion.fedoraproject.org/t/how-to-test-fedora-kinoite/30405</u>
- Try out <u>unofficial</u> builds (stable, Fedora 34)
 <u>https://fedoramagazine.org/discover-fedora-kinoite/</u>

£

Demo time!

Travier@redhat.com

