Introducing Fedora Kinoite

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Agenda

- Fedora?
- Why?
- Apps?
- Future?
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**
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**
System Information

Fedora 35
Kinoite
http://fedoraproject.org/

Software
KDE Frameworks Version: 5.83.0
Qt Version: 5.15.2
Kernel Version: 5.13.0-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: Ivinpipe
Current status

- **Official support** in progress in Fedora, **planned for F35**
  - [https://pagure.io/fedora-kde/SIG/issue/4](https://pagure.io/fedora-kde/SIG/issue/4)

- **Official development builds** available (Rawhide)
  - [https://discussion.fedoraproject.org/t/how-to-test-fedora-kinoite/30405](https://discussion.fedoraproject.org/t/how-to-test-fedora-kinoite/30405)

- **Unofficial stable builds** available (Fedora 34)
  - [https://fedoramagazine.org/discover-fedora-kinoite/](https://fedoramagazine.org/discover-fedora-kinoite/)
  - 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**
  - Keeps all your Flatpak apps **as-is**
  - Easy rollback to a previous **known good version**

- Can try nightly / development **Flatpaks** in parallel
  - Keep stable applications **available** as fallback
  - Try Flatpaks built from **PRs** (see [GitHub action](https://github.com/actions/actions))
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**
  - [https://pagure.io/fedora-kde/SIG/issue/13](https://pagure.io/fedora-kde/SIG/issue/13)
  - 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
  - [https://flathub.org/apps/search/org.kde](https://flathub.org/apps/search/org.kde)
  - 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

Apps for Linux, right here

Welcome to Flathub, the home of hundreds of apps which can be easily installed on any Linux distribution. Browse the apps online, from your app center or the command line.

Popular Apps

New & Updated Apps
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

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Logo missing here (in progress too!)

- **Join us!**
  - [https://fedoraproject.org/wiki/SIGs/KDE](https://fedoraproject.org/wiki/SIGs/KDE)
  - [https://pagure.io/fedora-kde/SIG/issues](https://pagure.io/fedora-kde/SIG/issues)
  - Weekly meetings on Monday 1800 UTC

- **Try out official builds (development, Fedora Rawhide)**
  - [https://discussion.fedoraproject.org/t/how-to-test-fedora-kinoite/30405](https://discussion.fedoraproject.org/t/how-to-test-fedora-kinoite/30405)

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Demo time!