What’s new for Silverblue, Kinoite, Sericea and Onyx in Fedora 39

Timothée Ravier
Fedora Silverblue & Kinoite maintainer

Joshua Strobl
Budgie developer & Fedora Onyx maintainer

Fedora 39 Release Party 🎉
What’s new?
Welcome to Fedora Onyx!

- Using the Budgie desktop, with a (nearly) stock experience.
- Follows up on Fedora Budgie Spin introduced in 38.
- Similar to other Fedora atomic desktops. Ships toolbx out-of-the-box and access to Flatpaks.
- Hopeful rebrand from Onyx to “Fedora Budgie Atomic”.
- Aspirational: Have atomic variant be the “Fedora Budgie” and have the “mutable” spin be rebranded. 👍
Fedora Atomic Desktops

- New Special Interest Group focused on (rpm-)ostree based desktop variants of Fedora:
  - Silverblue, Kinoite, Sericea, Onyx
  - https://fedoraproject.org/wiki/SIGs/AtomicDesktops
- New name still pending approval by the Fedora Council:
  - https://fedoraproject.org/wiki/Changes/AtomicDesktops
- Will centralize work and issues in a GitLab namespace:
  - SIG: https://gitlab.com/fedora/ostree
  - Issues: https://gitlab.com/fedora/ostree/sig/-/issues
What’s new in Silverblue?

- Latest GNOME 45 release!
- Loupe replaces Eye of GNOME (EOG)
- Flatpaks for ppc64le available and included in the installer
- See also What’s new in Fedora Workstation 39 on the Fedora Magazine
What’s new in Kinoite?

● Still on Plasma 5.27 (Plasma 6 coming for Fedora 40!)
● A subset of KDE Apps now available as Flatpaks
  ○ Built from Fedora RPM sources and build options
● Available for all Fedora releases
● Thanks to Yaakov Selkowitz and the Flatpak SIG!
● Applications removed from the base image
  ○ Okular, Gwenview, Kcalc
What’s new in Sericea?

- No major changes this release 😊
rpm-ostree unified-core

- Builds now using with rpm-ostree unified-core
- Stricter build mode for rpm-ostree images
- Should be completely transparent to users
- Required for bootupd support
- Step towards ostree native container images
What’s next?
bootupd support

- Will let users finally easily update their bootloader
- Needed rpm-ostree unified core mode (landed in F39)
- Now waiting on Anaconda installer fixes (in progress!)
- Hopefully lands in Fedora 40 🤞
Ostree Native Containers (I)

- Package ostree commits as OCI containers
- Main benefits:
  - Easier to manage, deploy, mirror
  - Create derived images via a Containerfile/Dockerfile
  - Inspect the content, scan it or run it like a container
  - Signing via cosign/sigstore
- Examples:
  - https://github.com/coreos/layering-examples
  - https://github.com/travier/fedora-kinoite
Ostree Native Containers (II)

- Work in progress to add support to build via Pungi
- Initially built alongside the current ostree commits
- Currently planned for Fedora 40:
  - [https://fedoraproject.org/wiki/Changes/OstreeNativeContainerStable](https://fedoraproject.org/wiki/Changes/OstreeNativeContainerStable)
  - The change page needs to be updated / rewritten
- Looking at transition to containers only in a future release
Universal Blue, Bluefin and Bazzite

- Builds on the Ostree Native Containers format
- All defined via Containerfiles/Dockerfiles
- Lots of options, images, additional fixes, platform support, UX fixes, etc.
- General project: [https://universal-blue.org/](https://universal-blue.org/)
- Developer focused: [https://projectbluefin.io/](https://projectbluefin.io/)
- Gaming focused: [https://github.com/ublue-os/bazzite/](https://github.com/ublue-os/bazzite/)
Support for Asahi Linux?

- Help us make that happen!
- https://github.com/OSInside/kiwi/issues/38
- https://fedora-asahi-remix.org/
Call for contributors!
Where to reach us?

- Atomic Desktops SIG:
  - Wiki: Atomic Desktops
  - Tracker: gitlab.com/fedora/ostree/sig
  - #atomic-desktops:fedoraproject.org
- Desktop SIGs:
  - Workstation Working Group, KDE SIG, Sway, Budgie
- Matrix rooms:
  - #silverblue:fedoraproject.org
  - #kinoite:fedoraproject.org
  - #sway:fedoraproject.org
  - #budgie:fedoraproject.org