



Toolbx - where we are?

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Who am I?

I wear many hats, but I love Fedora the most :)

Sumantro Mukherjee

Fedora (QE,Council,packager)

Google (Product Expert, Local Guide, Summer of Code Org Admin)

Outreachy Co-ordinator #Fedora

Sumantrom @ libera (#fedora-qa,#fedora-join,#fedora-admin,#fedora-kernel,#fedora-devel)

BUT... I am always will be a student!



A little background... Linux Distributions

Historically, package based

- *.deb, *.rpm, ...
- Difficult to Test
- Broken Updates (loss of power, disk space shortage)
- No separation between OS and Apps

Next gen OS comes in ..

- OSTree based OS
ostree.readthedocs.io
- Containers (Flatpak, Podman, ...)
for apps

OSTree based OSes

- No apt, No DNF
- Read-only /usr

OSTree based OSes

- How do you set up a development environment?
Compilers, debuggers, editors, SDKs, ...

OSTree based OSes

- What about command line? And good ol' vim ?
- Many development environments aren't in flatpak yet....
- Layering works .. but then restarts required!!



What is Toolbox?

- Create Containers with **\$ toolbox create container0 -y**
- List with **\$ toolbox list**
- Create RHEL UBI with **\$ toolbox -y create --distro rhel --release 9.1**

Any GUI ?

- **Toolbx — what works ...**
- **\$ export XDG_CURRENT_DESKTOP=GNOME**
- **\$ toolbox enter**
- **◆\$ sudo dnf install flatpak **
gnome-backgrounds gnome-shell
- **◆\$ dbus-run-session gnome-shell --wayland**
- **[sumantrom@toolbox ~]\$ dbus-run-session gnome-shell --wayland**
- **libmutter-Message: 08:56:46.219: Running GNOME Shell (using mutter 44.4) as a**
Wayland display server

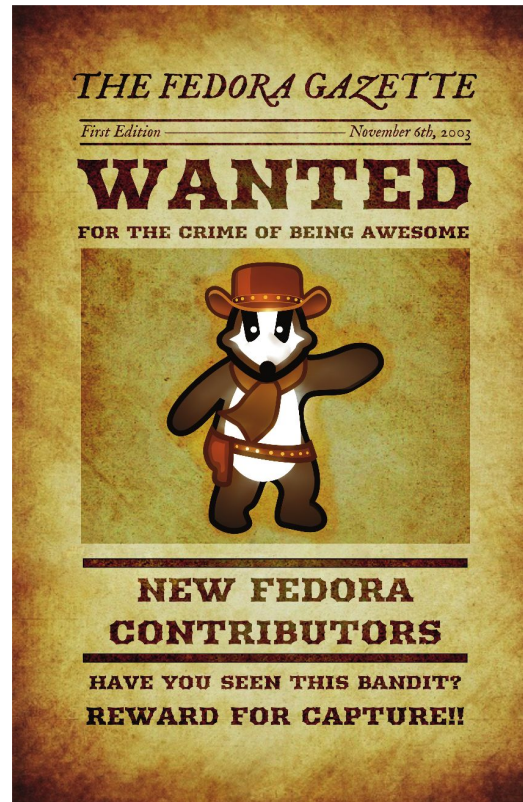
Toolbx Primary goals...

- Restore the usual command-line on OSTree based OSes for development & debugging
- Crucial for adoption of these OSes
- Well tested code base
250 tests and growing
- CentOS Stream 9, all supported Fedoras and Rawhide, Ubuntu 22.04

Toolbx <3 Contributors

We are focused on:

- Increasing more test coverage
- Evangelism
- Docs gardening
- RCA issues with latest fedora



Questions?

Thank you!