

TOOLBX Recent updates

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l am ...

- rishi
- Red Hat Display Systems Team (formerly Desktop Team)

- Fedora Silverblue & Workstation
- GNOME



• Unfortunately, I have a conflict so I will be leaving earlier today

• Feel free to reach out through other channels



https://containertoolbx.org/

- https://containertoolbx.org/articles/
- Formerly Toolbox or Fedora Toolbox



- Changes/ToolbxReleaseBlocker for Fedora 39
- https://fedoraproject.org/wiki/Changes/ToolbxReleaseBlocker

- "Up to date fedora-toolbox OCI images must be published on registry.fedoraproject.org as release-blocking deliverables ..."
- "... there must be release-blocking test criteria to ensure usable toolbox RPMs."



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- Improve the quality of the Toolbx environments on Fedora
- Make them as reliabile as similar environments running directly on Fedora hosts



- Changes/ToolbxReleaseBlocker for Fedora 39
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- Toolbx integrates with too many parts of the OS
 - Removable devices
 - SSH agent socket
 - Wayland sock



- Changes/ToolbxReleaseBlocker for Fedora 39
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- Toolbx integrates with too many parts of the OS
 - Needs more formal testing



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- Toolbx has two parts an OCI image, which defaults to fedora-toolbox on Fedora hosts, and the toolbox RPM
 - The images could be stale



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- fedora-toolbox images are built by the nightly composes
 - fedora-kickstarts, pungi-fedora
 - Image Factory



- Changes/ToolbxReleaseBlocker for Fedora 39
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- fedora-toolbox images are built by the nightly composes
 - No more Dockerfile
 - No more OpenShift Build Service



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- fedora-toolbox images are built by the nightly composes
 - Built as a separate base image
 - No more layered images



- Changes/ToolbxReleaseBlocker for Fedora 39
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- fedora-toolbox images are built by the nightly composes
 - No need to unminimize the base fedora image



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- Negatives:
 - Container/Dockerfile was easier for upstream Cl
 - Image Factory is also considered uncool
 - RHEL/UBI images still defined as Dockerfile



• Built-in support for OSes outside the Fedora family

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• \$ toolbox create --distro

- Arch Linux
- Ubuntu

• Built-in support for OSes outside the Fedora family

- Hard to do CI with non-Ubuntu hosts
- Software Factory for CentOS Stream 9 and Fedora
- Impossible to provide first-class support without upstream Cl



- Better integration with the terminal emulation stack in GNOME and Fedora
- https://boxi.dev/
- https://gitlab.gnome.org/chergert/prompt/

• tcgetpgrp(3) doesn't work across nested PTY pairs



- Explore using a OCI library instead of Podman
 - More control over how things are set-up
 - Better backwards compatibility
 - Better error handling and progress reporting

https://containertoolbx.org/