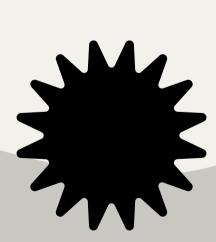
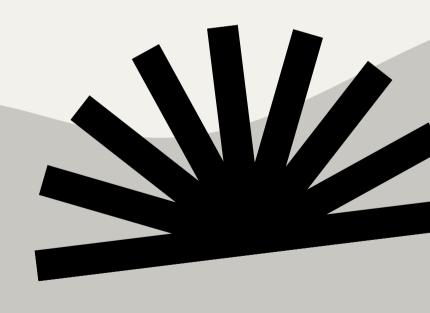


A sneak peek into the realm of immutable Linux distributions.





Opportunity Open Source

What is a Linux distribution?

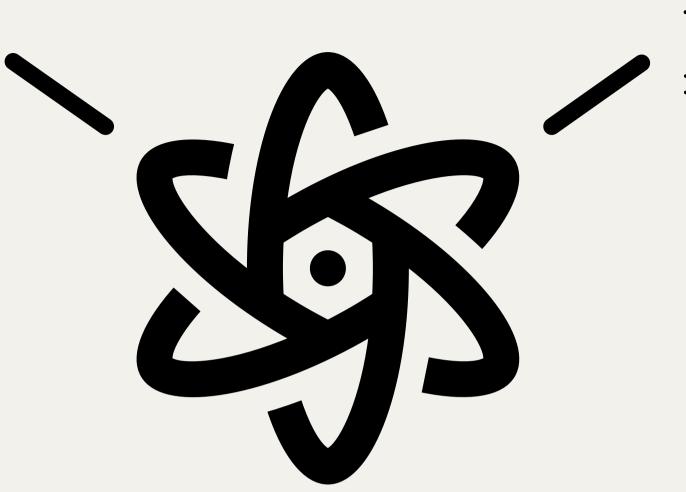
The issues with classic Linux distributions

`rm -rf /` still works in 2023.

You can expect to encounter system breakages all the time.

Inability to install apps with conflicting dependencies

Not allowing for a classic rm -rf /



Updates that don't necessitate reboots

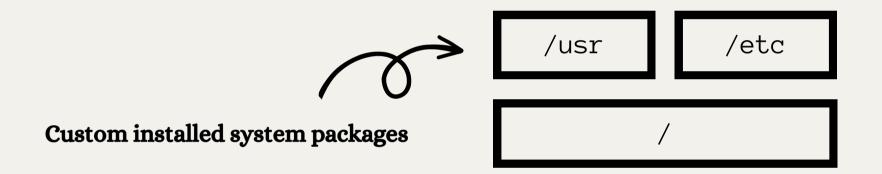
What's immutability and atomicity?

v1

- Used file attributes for immutability, using code from snapd.
- Lacked support for atomic updates, requiring immutability to disabled for updates.
- Slowed down boots for toggling the immutability bit on files in parallel.

Our original implementation





overlaufs

↓ Latest ISO downloaded with zsync. (~50MBs)

% Overlays for custom-install system packages rebuilt.

System replaced on next boot using initramfs hook.

Atomic updates

Thank you!

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Rudra Saraswat

Ubuntu Unity & Unity7 Project Lead/Maintainer **blendOS Project Lead**

rs2009 on Telegram/Libera.Chat/Discord
RudraSaraswat1 on X
@ruds@social.ruds.io on Mastodon