Using Fedora CoreOS to Ship Your FOSS Project

You can easily self-host your projects!
Who am I...

- Joe Doss (jdoss)
- 23 year Linux user
- Fedora package maintainer and Fedora Cloud / CoreOS SIG member
- Former Director of Engineering Operations at Kenna Security, Inc (now Cisco)
- Principal Systems Architect at Forem (FOSS software behind dev.to)
And what is Forem?

- FOSS for building communities
  - https://github.com/forem/forem
  - 17k+ Stars on GitHub
  - Powers dev.to
- Monolithic Ruby application
  - Puma
  - Sidekiq
- Requirements
  - PostgreSQL
  - Redis
  - imgproxy
Forem Self-Host Goals

- Affordable
- Provider agnostic
- Reproducible deployments
- Easy to deploy/update Forem code
- Safe updates for the underlying OS
- Modern tooling but not Enterprise tooling (but... why not k8s???)
- Features from Forem Cloud easy to translate to Self-Host (and vice versa)
- Not a bunch of services shoved into a single container
- More than just the code
Why Fedora CoreOS?

- Immutable
- Secure
- Container Centric
- Rolling Release
- Updates and Rollbacks
- Define configuration at boot
- Modern system tooling
  - systemd
  - Podman
- Great cloud provider coverage
- Bare metal support
Forem Self-Host Repo

- FCOS Ansible Role
- Butane Ansible Role
- Three different Cloud provider playbooks
  - DigitalOcean
  - AWS
  - Google Compute
- QEMU Playbook for local development
- Butane Template for setting up Forem
  - systemd-oomd
  - swap-on-zram
  - Python 3 support
Ansible

The rubber stamp
Butane / Ignition

Configuration on boot!
systemd + podman

A “not terrible” way to run services
“The next five years are going to be full of amazing self-hosted solutions for all sorts of things, pretty excited to see this.”

- @deathbypapercut
Self hosting FOSS applications securely and easily is something everyone can do with Fedora CoreOS!
Thanks!

Contact me! or don’t…
I am not your sysadmin!

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github.com/jdoss

Super cool URLs…

github.com/forem/selfhost

getfedora.org/en/coreos