



fedora™
COREOS

Best host for your containers

 @ksinny
<https://sinny.io/>

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Agenda

- What is Fedora CoreOS
- Features
- Availability
- Why the best host for containers
- Current status
- Getting involved

What is Fedora CoreOS?

Automatically updating, minimal, container-focused Operating System

- Designed for clusters but also operable standalone
- Optimized for Kubernetes but also great without it
- Goal is to provide the best container host to run containerized workloads securely and at scale
- Comes under Fedora Project umbrella
- Upstream for RH CoreOS with broader scope

Contd ...



Grow the user-base while keeping our existing users from Fedora Atomic Host and Container Linux

Features

- Immutable host with read only /usr/
- Atomic update and rollback
 - Uses ostree and rpm-ostree
- Perform initial system configuration with Ignition
- Rolling release
 - Multiple streams for users - stable, testing and next
 - Two Week release cycles for streams
- No Python

Availability

- Bare Metal
- QEMU
- VMware
- Virtual Box
- Different cloud Providers like AWS, Azure, DigitalOcean, GCE, OpenStack, Packet
- Different architectures x86_64, aarch64 (ARM- 64 bit), ppc64le (Power LE)

Why the best host for containers?

- Provides minimal OS optimized to run containers
- Pre-installed Container runtimes like runc, podman and docker
- No need to worry about host as it updates automatically with rollback if needed
- Multiple release streams make it easy to test new features

Current Status

- Fast moving - under heavy development
- Lots of design decision work has already been done
<https://github.com/coreos/fedora-coreos-tracker/blob/master/Design.md>
- Nightly artifacts are getting built at
<https://ci.centos.org/artifacts/fedora-coreos/prod/builds/>
- Very close to No Python
- Preview release targeted soon after Fedora 30
- TODOs, In progress and completed items can be tracked at
<https://github.com/orgs/coreos/projects/82>

Getting Involved

- Coreos-assembler tool that builds artifacts
<https://github.com/coreos/coreos-assembler>
- CoreOS forum at <https://discussion.fedoraproject.org/c/coreos>
- Issues tracker at <https://github.com/coreos/fedora-coreos-tracker>
- Join [weekly](#) or [bi-weekly](#) APAC community IRC meeting
- Hang around on IRC freenode channel #fedora-coreos
- Join Mailing List -
<https://lists.fedoraproject.org/archives/list/coreos@lists.fedoraproject.org/>

Thanks!

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