



# **Flatcar Container Linux Monthly Community Meeting**

19 October 2021

# Agenda

Welcome

News

Spotlight: Flatcar dev mini-projects

Status update: ARM64

Q&A / Discussion



**Welcome!**  
(please say "hi")

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# News

## The latest on Flatcar Linux



# NEWS - public build infrastructure

Last ~2w: urgent unscheduled build infrastructure work

- Over-use of a google bucket which serves both CI and public builds
- Bucket is now private, impacting both CI/releases and public builds

## Current Status

- <https://mirror.release.flatcar-linux.net/> for release binaries.
- <https://bucket.release.flatcar-linux.net/> for CI / nightlies.

## Next steps

- Updates to all channels (+ Mantle) later this week.
- No release planning in today's call, dedicated call next week.





# Hacktober 20 fest 21

Presented by



# Hacktober 20 fest 21

Go to file

Add file ▾

Code ▾

df63e60 4 days ago

🕒 4,515 commits

lo/use-new-bincache-mirror 12 days ago

14 months ago

DOWNLOAD\_ROOT\_SDK 4 days ago

2 months ago

2 years ago

SDK location 17 months ago

## About

image build and composition scripts for Flatcar Container Linux

[github.com/flatcar-linux/flatcar/issues](https://github.com/flatcar-linux/flatcar/issues)

hacktoberfest

flatcar

flatcar-linux

📖 Readme

📄 BSD-3-Clause License

# Flatcar dev



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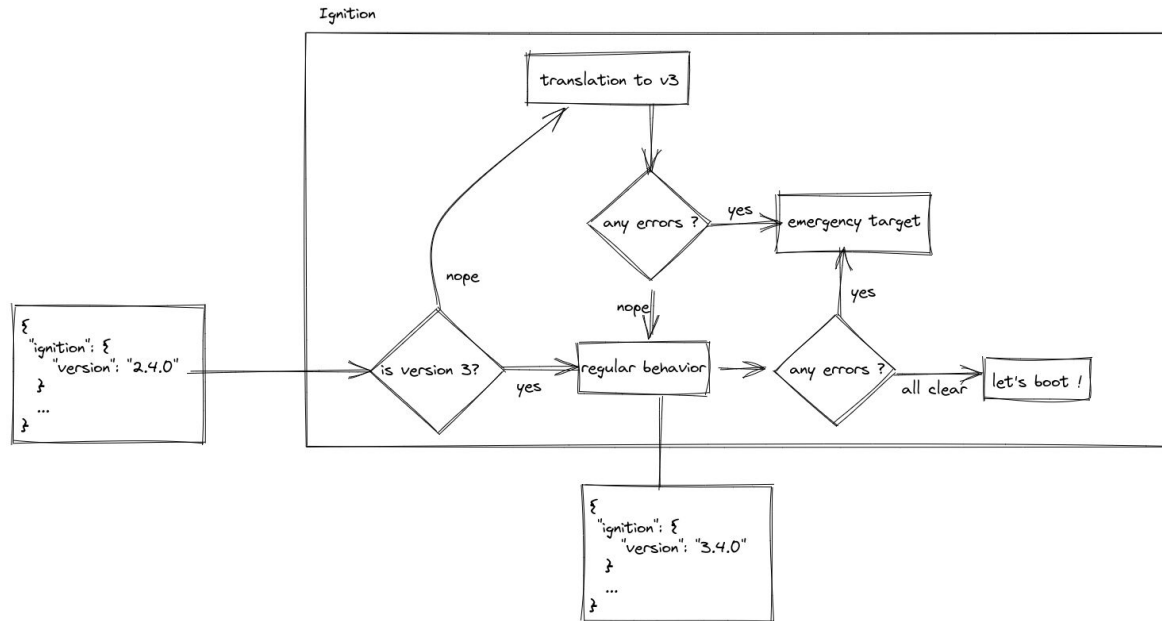
# Ignition V3 support - introduction

- One time and early boot provisioning mechanism
- Use JSON configuration

```
{
  "ignition": { "version": "2.2.0" },
  "storage": {
    "files": [{
      "filesystem": "root",
      "path": "/etc/hostname",
      "mode": 420,
      "contents": { "source": "data:,core1" }
    }]
  }
}
```

# Ignition V3 support - concept

- Mitigate breaking changes



# Ignition V3 support - status

- PRs opened:
  - [flatcar-linux/ignition#23](#)
  - [flatcar-linux/coreos-overlay#249](#)
- Upstream PR + 1 to come:
  - [coreos/ign-converter#28](#)
- CI is OK except for Ignition Version 1
- To test it locally: build with the SDK + rebuild the initramfs



# Showcasing flog

## Flog

For "Fetch (Change)Log" is a tool to centralize various changelog from different providers, from different locations into one single place.

### Supported connectors

- `github`

### Example

Starting with a fresh configuration, it's possible to inspect the available entries:

## Changelog aggregator

- Linux: [5.10.67](#)
- OpenSSL: [3.0.0](#)
- flatcar-linux/mantle: [v0.17.0](#)
- kubernetes/kubernetes: [v1.22.2](#)

[new entry](#)

## flatcar-linux/mantle - v0.17.0

### Security

- go: update github.com/gogo/protobuf to v1.3.2 ([#229](#))

#### Added

- kubeadm proper support for ARM64 ([#217](#))
- docker logs forwarding to journald for kubeadm. \* tests ([#228](#))
- OEM ignitions tests ([#235](#))
- --json-key to cork/create and cork/download subcommands ([#239](#))
- --sdk-url to allow passing a SDK location ([#240](#))

#### Changed

- Enabled SELinux for ARM64 ([#222](#))
- Enabled docker.selinux test for ARM64 ([#225](#))
- Fixed amd64 checksums for Kubernetes v1.21.0 tests ([#226](#))
- Used clic to set enable\_v2 option ([#227](#))
- Used ignition instead of clic to provision instance in raid test ([#234](#))
- Bumped CiliumCLI version to pull Cilium-1.10.4 ([#230](#))
- Certificate generation for coreos.locksmith.tls test ([#237](#))

#### Removed

- Duplicated etcd-member in the kubeadm. \* config ([#232](#))

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# SDK container

- Make Flatcar modifications easier
- Emulate existing environment (cork SDK)
- Ease CI integration / custom automated builds
- WIP branch / PR:  
<https://github.com/flatcar-linux/scripts/pull/147>
- Consider this a proof of concept for now



# SDK container

Demo





# Status update: ARM64

# Release tests status

- Kola Test Failure modes ([#474](#))
  - ☐ Polkit PR ([#1263](#)) merged!
- Timeframe for release (assuming no major breakage surfaces):
  - ☐ Beta in late October/early November
  - ☐ Stable in December





# Status and WIP items

- ARM64 questions?

Ping me on IRC/Matrix, nick “wrl”



**Jump aboard!**

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# Calls to Action

Spread the word

Become a contributor ([github.com/flatcar-linux/Flatcar](https://github.com/flatcar-linux/Flatcar))

Join the community ([Matrix, email list](#))

Join us for the next community call

Share your feedback - how can we better support and grow the community? What should we cover in future community calls?



# Q&A / Discussion

# Thank you!

Github: [flatcar-linux/flatcar](https://github.com/flatcar-linux/flatcar)

Twitter: [flatcar\\_linux](https://twitter.com/flatcar_linux)

