

Ignition and Butane

Take the power back... On your provisioning !

Hello!



- Engineer @ Microsoft
- Flatcar maintainer
- Bénévole avec Ingénieur Sans Frontière France

Provisioning



- Configurer une instance
- Configurer une image
- ...

Les outils



...

Ignition?

- Runs only on the first boot (from the initramfs)
- Produces the machine specified or no machine at all
- Configs are declarative
- Configs can be, but normally are not, written by hand

Configuration example

```
{
  "ignition": {
    "version": "3.0.0"
  },
  "storage": {
    "files": [
      {
        "path": "/etc/someconfig",
        "mode": 420,
        "contents": {
          "source": "data:,example%20file%0A"
        }
      }
    ]
  }
}
```

Ce qu'on peut faire avec Ignition

- Configuration / création d'utilisateur
- Définition de service systemd
- Chiffrement / Déchiffrement avec LUKS
- Passer des arguments au Kernel
- ...

"Configs can be, but normally are not, written by hand"

```
variant: flatcar
version: 1.0.0
storage:
  files:
    - path: /etc/someconfig
      contents:
        inline: example file
      mode: 0420
```

```
podman run -i --rm quay.io/coreos/butane:release < config.yml > config.json
```

```
{
  "ignition": {
    "version": "3.0.0"
  },
  "storage": {
    "files": [
      {
        "path": "/etc/someconfig",
        "mode": 420,
        "contents": {
          "source": "data:example%20file%0A"
        }
      }
    ]
  }
}
```


Demo time

- <https://asciinema.org/a/Zfhgr6Zkh8zGERmtYa3fjyj4o>

Going further

- Flatcar: Compatibility v1, v2 and v3
- Flatcar: Not yet clevis support
- Contributions are welcome on Ignition / Butane - we can talk later about that

Merci !

- @tormath1 (IRC, Matrix, github, twitter, etc.)
- <https://carbon.now.sh/>: terminal effect
- <https://coreos.github.io/ignition/rationale/>: Ignition principles
- <https://coreos.github.io/butane/examples/#files>: Butane example
- <https://www.flatcar.org/docs/latest/setup/security/fips/#ignition-provisioning>: Flatcar FIPS example
- <https://www.flatcar.org/docs/latest/installing/#writing-your-first-config-and-testing-it-locally-in-a-qemu-vm>: Flatcar QEMU local example