#### Group 1

## Minik8s, but Rust 🤲 🤲

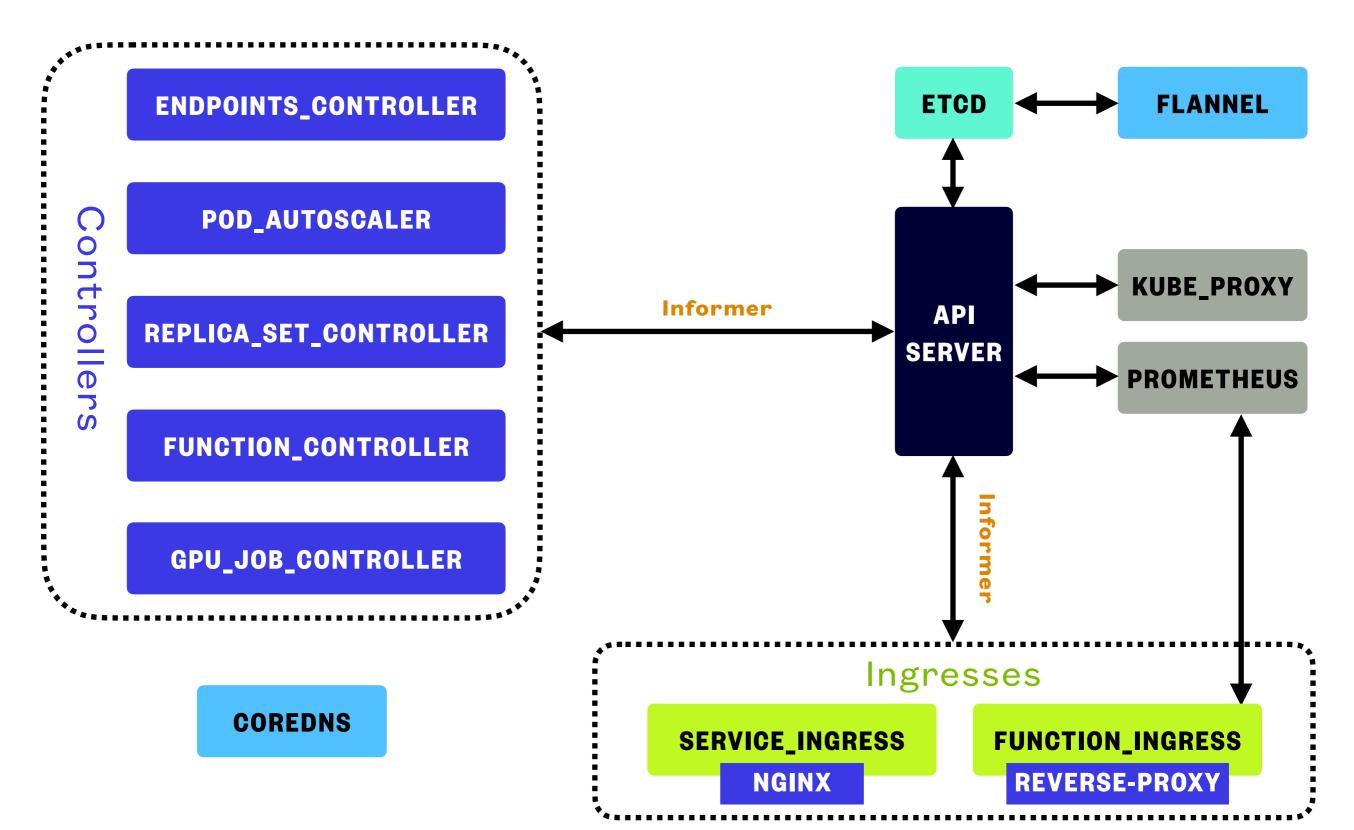




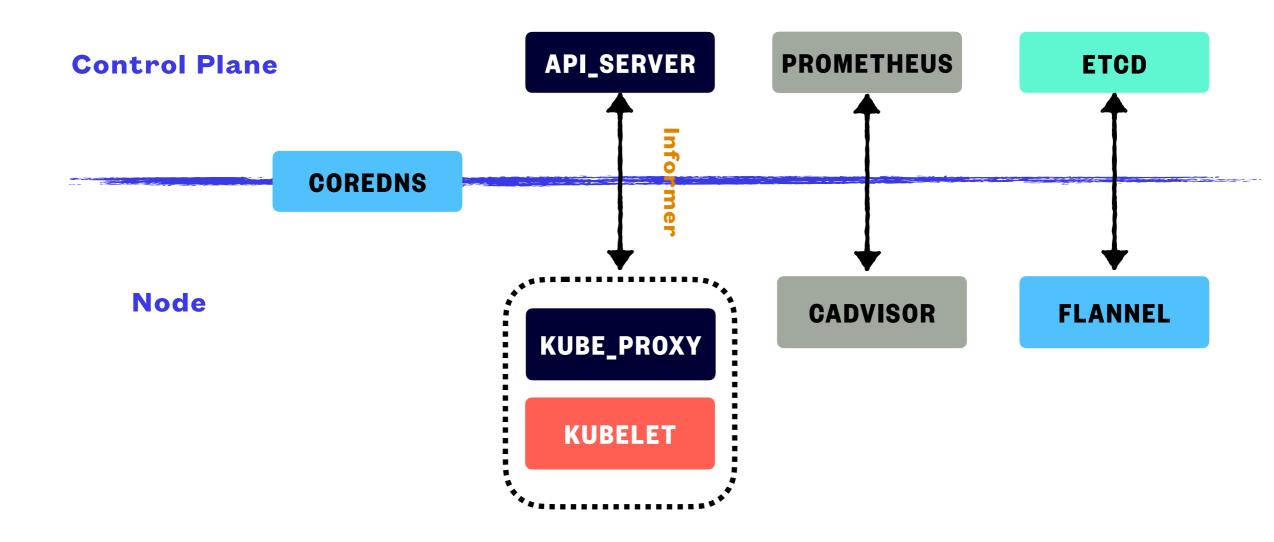




## **Control Plane**







### Others

#### Dependencies

```
1 anyhow = {version = "1.0.56", features = ["backtrace"]}
2 async-trait = "0.1.53"
3 axum = {version = "0.5.1", features = ["ws", "multipart"]}
4 axum-macros = "0.2.0"
5 bollard = "0.12.0"
6 chrono = "0.4.19"
7 chrono-humanize = "0.2.1"
8 clap = {version = "3.1.8", features = ["derive"]}
9 config = {version = "0.13.1", features = ["yaml"]}
10 dashmap = "5.3.3"
11 deadpool = {version = "0.9.3", features = ["rt_tokio_1"]}
12 dotenv = "0.15.0"
13 enum_dispatch = "0.3.8"
14 etcd-client = "0.9.0"
15 futures = "0.3.21"
16 futures-delay-queue = "0.5.2"
17 futures-intrusive = "0.4"
18 futures-util = "0.3.21"
19 iptables = "0.5.0"
20 lazy_static = "1.4.0"
21 nginx-config = "0.13.2"
22 parking_lot = "0.12.0"
23 prometheus-http-api = "0.2.0"
24 \text{ rand} = "0.8.5"
25 reqwest = {version = "0.11", features = ["blocking", "json"]}
26 serde = {version = "1.0.136", features = ["derive"]}
27 serde_json = "1.0.79"
28 serde_vaml = "0.8.23"
29 strum = {version = "0.24", features = ["derive"]}
30 tokio = {version = "1.17.0", features = ["full"]}
31 tokio-tungstenite = "0.17.1"
32 tokio-util = "0.7.2"
33 tower-http = {version = "0.3.3", features = ["fs"]}
34 tracing = "0.1.32"
35 tracing-subscriber = "0.3.10"
36 uuid = {version = "0.8", features = ["serde", "v4"]}
```

#### 工程细节

- 全程使用Jetbrains Space作为开发平台
- Code Review X 31



- CI/CD
  - 使用Jetbrains Space Automation
  - Clippy: Lint for static code analysis,自动化静态代码分析
  - Cargo test自动测试
  - 自动构建
    - 构建包缓存
    - Docker Image自动构建并发布至minik8s.xyz自建Registry
    - 二进制可执行文件自动上传至FileServer发布



• Rust带来的好处: 少Debug,代码质量下限高,并发正确性,后期开发效率高

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