

Vishal Biyani





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Fission Maintainer

https://github.com/fission/fission

Let's Connect



Kubernetes Pune Meetup Organizer https://www.meetup.com/Kubernetes-Pune/



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https://www.vishalbiyani.com



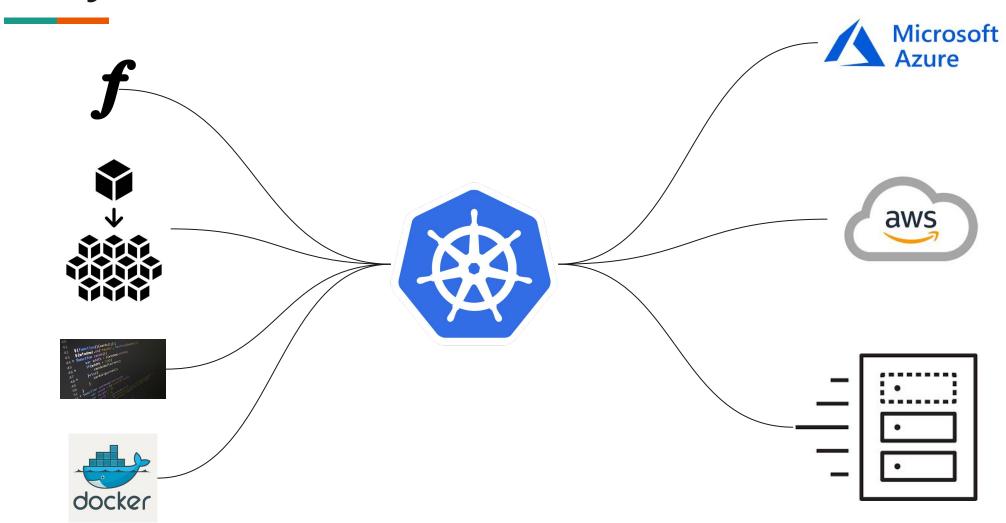


Building event driven apps on Kubernetes with **fission**

March 2021 Github Satellite

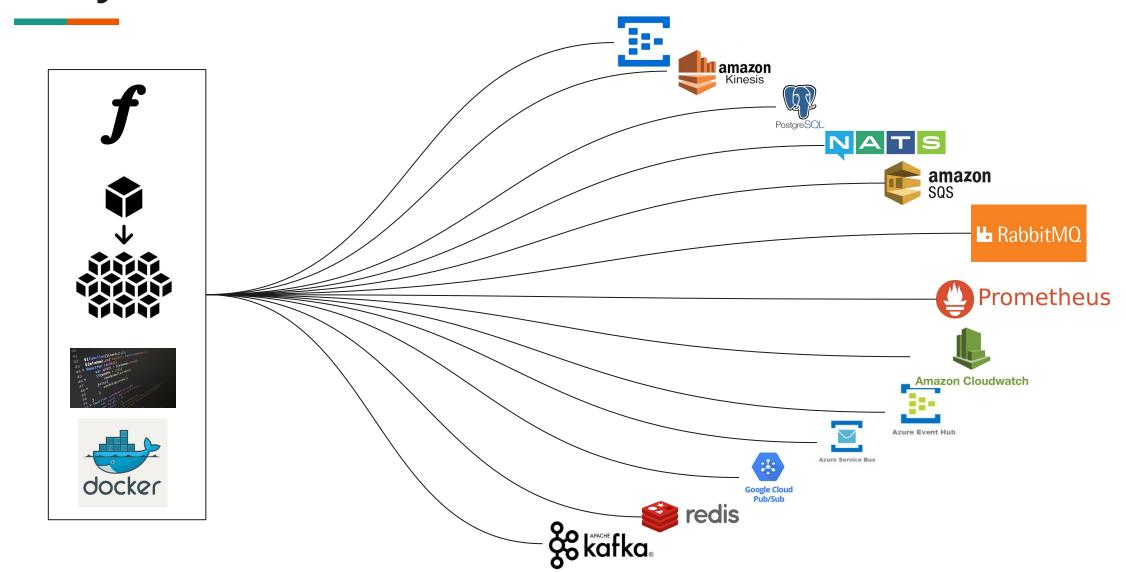


Why FaaS On Kubernetes?





Why FaaS On Kubernetes?





Why FaaS On Kubernetes?

- Control of runtime & underlying infrastructure. (Regulatory or otherwise)
- Fine grained Scaling Controls
- No limits on timeouts etc.
- Any cloud or on premise same experience
- Increased developer productivity
- Developer focuses on code, operator on making it scale!
- Use it alongside microservices in same cluster



When NOT to do FaaS On Kubernetes?

- The cost of function execution is much less than maintaining a K8S cluster
- You are on single cloud & don't plan to move in near future.
- The workload is all static and you don't expect variation
- Workload is not event driven at all.



Introducing Fission - Faas for Kubernetes

- Fast & Simple Functions for Kubernetes
- Kubernetes Native Serverless Framework
- You only write code Docker & Kubernetes is abstracted for you
- Performance 100ms Cold Start with warm pool
- Code can be built in the cluster
- Supports integration with various "event sources"



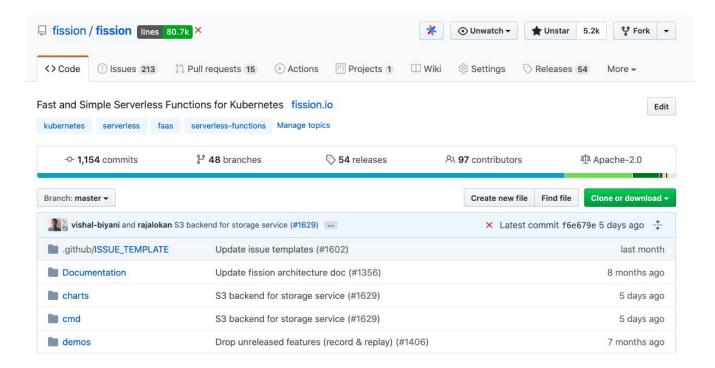


Fission on GitHub: Star & Show



You can Star & show Where

https://github.com/fission/fission

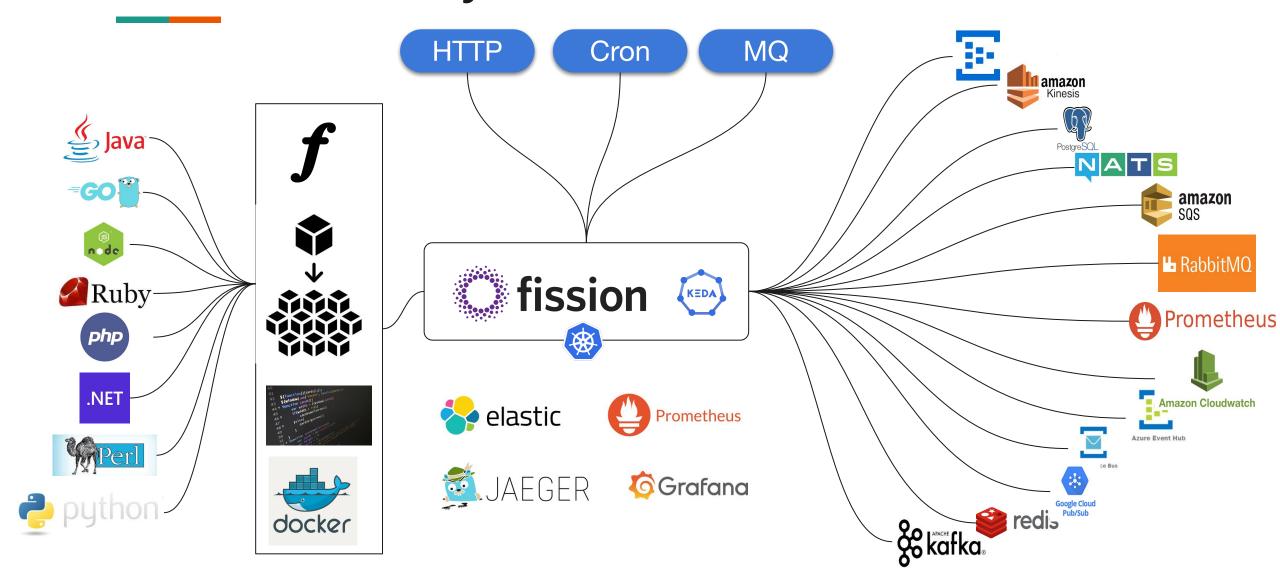


https://docs.fission.io/docs/

https://blog.fission.io



Fission - What can you do?





Demo

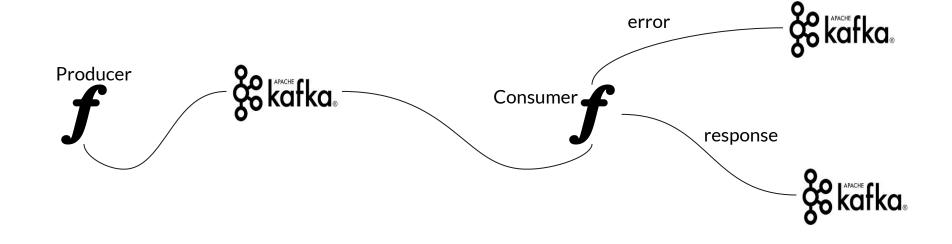
"Hello World" - Fission version

```
$ fission env create --name nodejs --image fission/node-env
$ fission fn create --name hellojs --env nodejs --code
https://raw.githubusercontent.com/fission/fission/master/ex
amples/nodejs/hello.js
```

\$ fission function test --name hello Hello, world!



A simple event driven App

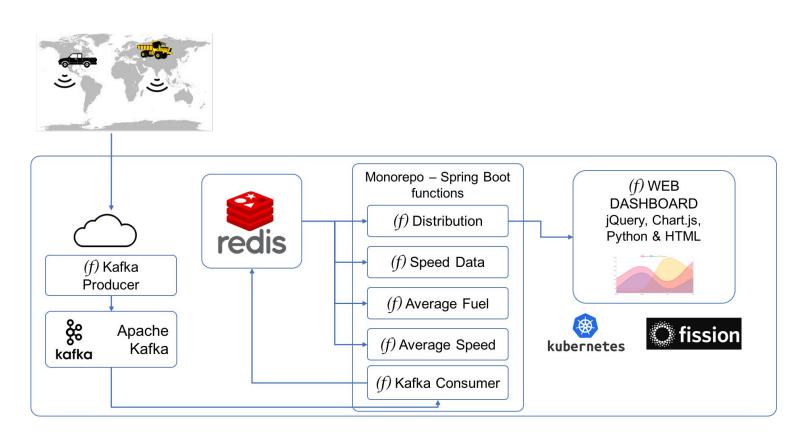






Another real world example (Try on your own)

- 6 functions covering
 - A function for UI
 - Function for MQT
 - Reading/Writing to DB
 - Multiple Languages





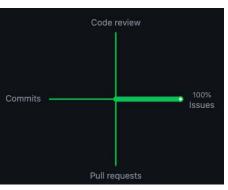
Contributing





My journey - Software & Open Source





Saltstack workshop with hands on demo. The workshop sets you up with a running Saltstack cluster on your laptop and walks through key concepts with practical demos. configuration-management



2004-10 2010-11 2012-14 2015-16 2017-now

Learning Software Engineering

- Mechanical Engineer by education
- Enterprise for initial years

Discovery!

Discovered CloudFoundry, open source & systems engineering!

Watching from sidelines

Raise small PRs and issues in repos

Baby steps

Small utilities, tutorials & self projects on Github.

Fission

Learnt Go on job, started with small issues & features in Fission - to being a maintainer today





Start open source contribution journey

Start here https://docs.fission.io/docs/contributing

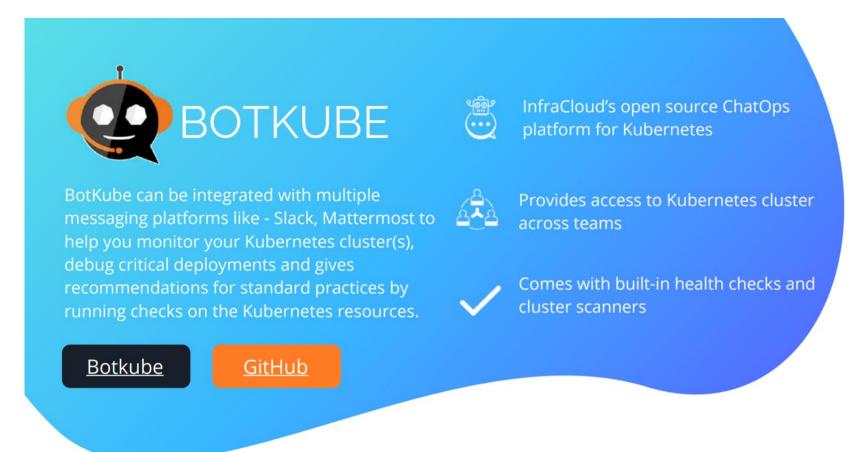
Ask Questions on Slack

Work with a friendly and helpful community





http://botkube.io/



https://github.com/infracloudio/botkube



Questions?



આભાર!

ধন্যবাদ!

Dank je!

Kiitos!

धन्यवाद!

Grazie!

Je vous remercie!

ありがとうございました! ਤੁਹਾਡਾ ਧੰਨਵਾਦ!

நன்றி!

ధన్యవాదాలు!

നന്ദി!

THANK YOU!