





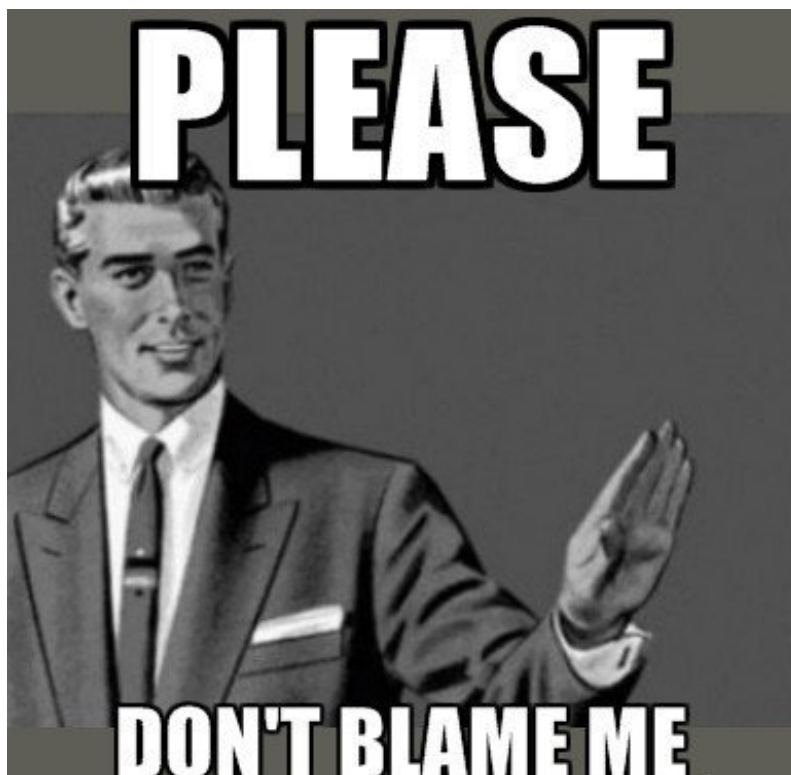
# AGENDA

- Brigade
- Gateways
- Secrets
- Code - GitLab
- Storage
- Minio
- Links

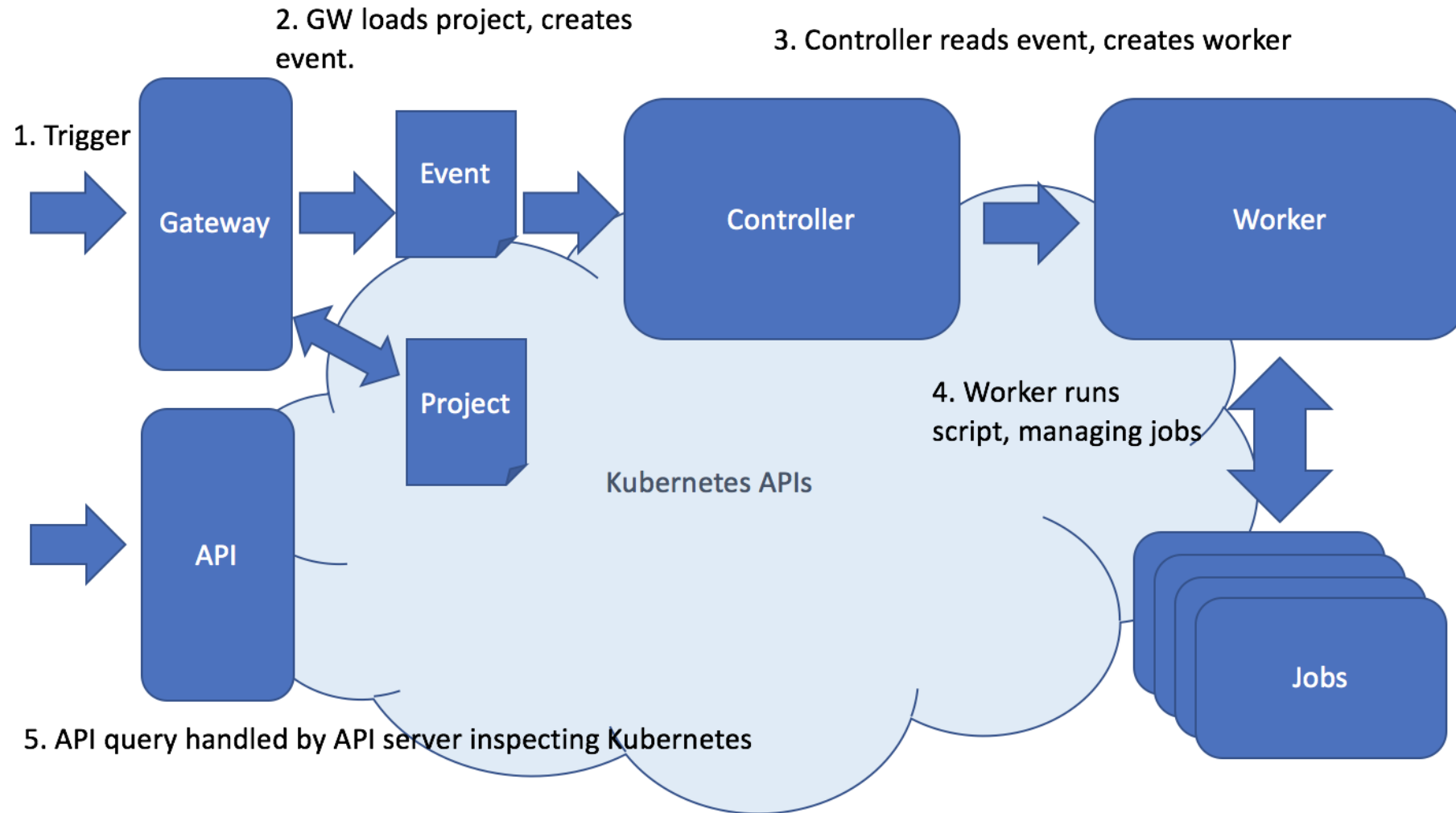


# WHAT IS BRIGADE?





# BRIGADE ARCHITECTURE





# GATEWAY

- a gateway is an entity that generates events
- out of the box Brigade ships with GitHub and DockerHub gateways
- other examples, **brig** CLI tool behaves as a gateway with a `brig run`
- Anything could be a source of events, we want you to contribute



# KUBERNETES SECRETS

- Secrets are namespaced objects; exist in the context of a namespace
- You can access them via a volume or an environment variable from a container running in a pod
- The secret data on nodes is stored in tmpfs volumes



- A per-secret size limit of 1MB exists
- The API server stores secrets as plaintext in etcd
- All **data** fields must be base64 encoded



```
apiVersion: v1
kind: Secret
metadata:
  name: mysecret
  labels:
    app: myapp
type: Opaque
data:
  username: YWRtaW4=
  password: Qm91bGRlcgo=
```



```
$ kubectl create -f ./secret.yaml  
secret "mysecret" created
```



# Decode

```
$ echo "Qm91bGRlcgo=" | base64 -D  
Boulder
```

# BRIGADE SECRETS

- **Events** are **Secrets**
- Using the Kubernetes Secret API, Brigade events are specially labeled Secrets



# SAMPLE BRIGADE SECRET

```
apiVersion: v1
kind: Secret
metadata:
  name: example
  labels:
    heritage: brigade
    project: brigade-1234567890
    build: 01C1R2SYTYAR2WQ2DKNTW8SH08
    component: build
type: brigade.sh/build
```



```
data:
  event_provider: github
  event_type: push
  revision:
    commit: 6913b2703df943fed7a135b671f3efdafd92dbf3
    ref: master
  build_name: example
  project_id: brigade-1234567890
  build_id: 01C1R2SYTYAR2WQ2DKNTW8SH08
  payload: "{ 'foo': 'bar' }"
  script: "console.log('hello');"
```



# **GITLAB GATEWAY**

[github.com/lukepatrick/brigade-gitlab-gateway](https://github.com/lukepatrick/brigade-gitlab-gateway)



# Gateway Executable

```
package main

import (
    "flag"
    "fmt"
    "log"
    "os"
    "strings"

    "github.com/Azure/brigade/pkg/brigade"
```

# Gateway Secret writer

```
package webhook

import (
    "log"

    "github.com/Azure/brigade/pkg/brigade"
    "github.com/Azure/brigade/pkg/storage"
)

const (
    brigadeJSFile = "brigade.js"
```

# DEMO





# REFERENCES

- [kubernetes.io/docs/concepts/configuration/secret](https://kubernetes.io/docs/concepts/configuration/secret)
- [github.com/lukepatrick/brigade-gitlab-gateway](https://github.com/lukepatrick/brigade-gitlab-gateway)
- [github.com/lukepatrick/brigade-bitbucket-gateway](https://github.com/lukepatrick/brigade-bitbucket-gateway)
- [github.com/lukepatrick/minio-brigade](https://github.com/lukepatrick/minio-brigade)
- [github.com/Azure/brigade](https://github.com/Azure/brigade)

# QUESTIONS?

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