KubeCon

CloudNativeCon

Europe 2018

Building Event-Driven Pipelines with Brigade

Who am I?

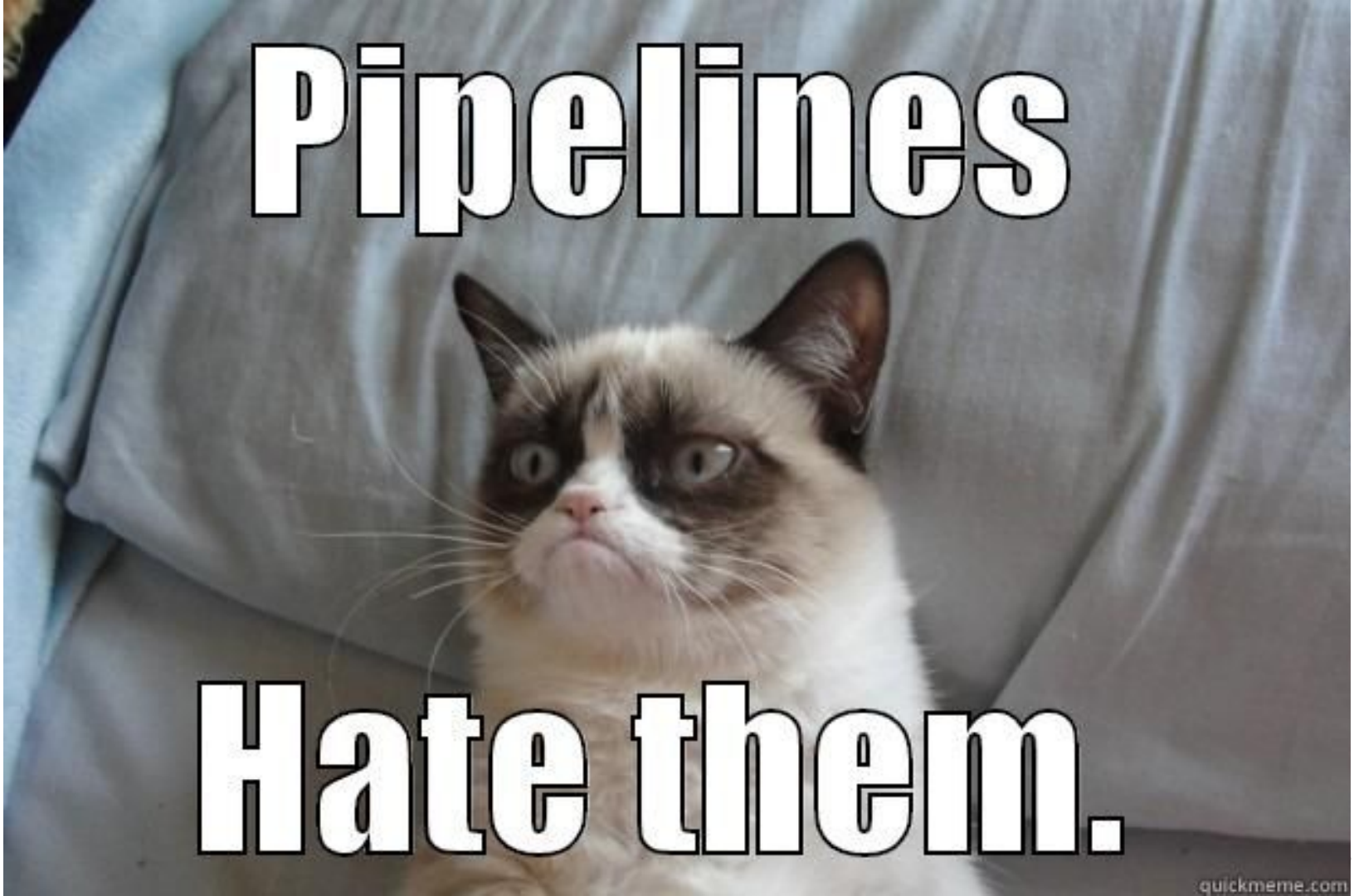
Brian Redmond

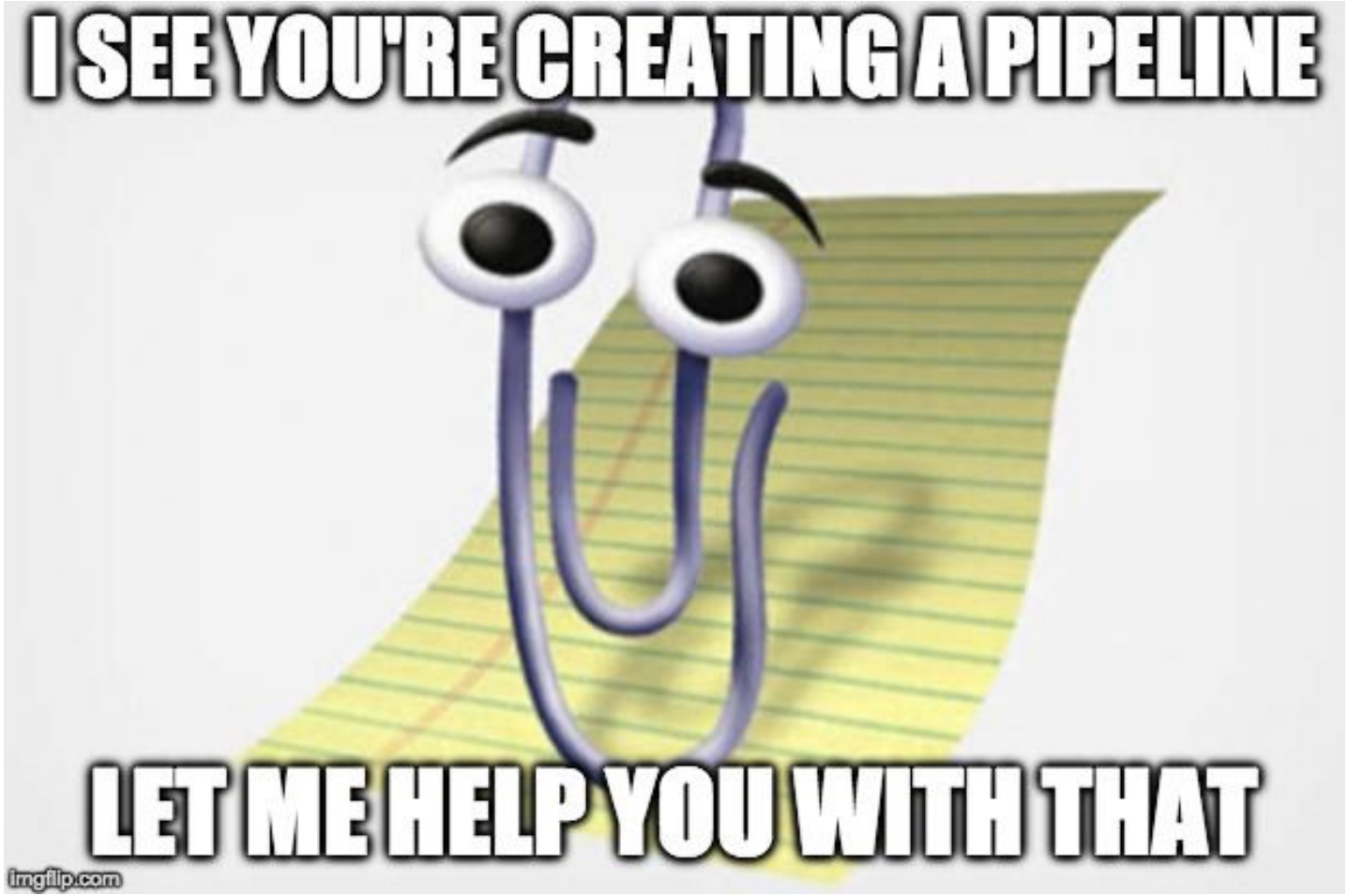
Cloud Architect @ Microsoft

Azure Global Black Belt Team

17 years and counting at Microsoft

Twitter: **@chzbrgr71**


Pipelines
Hate them.
quickmeme.com


I SEE YOU'RE CREATING A PIPELINE
LET ME HELP YOU WITH THAT
imgflip.com

KEEP
CALM
AND
CROSS YOUR
FINGERS

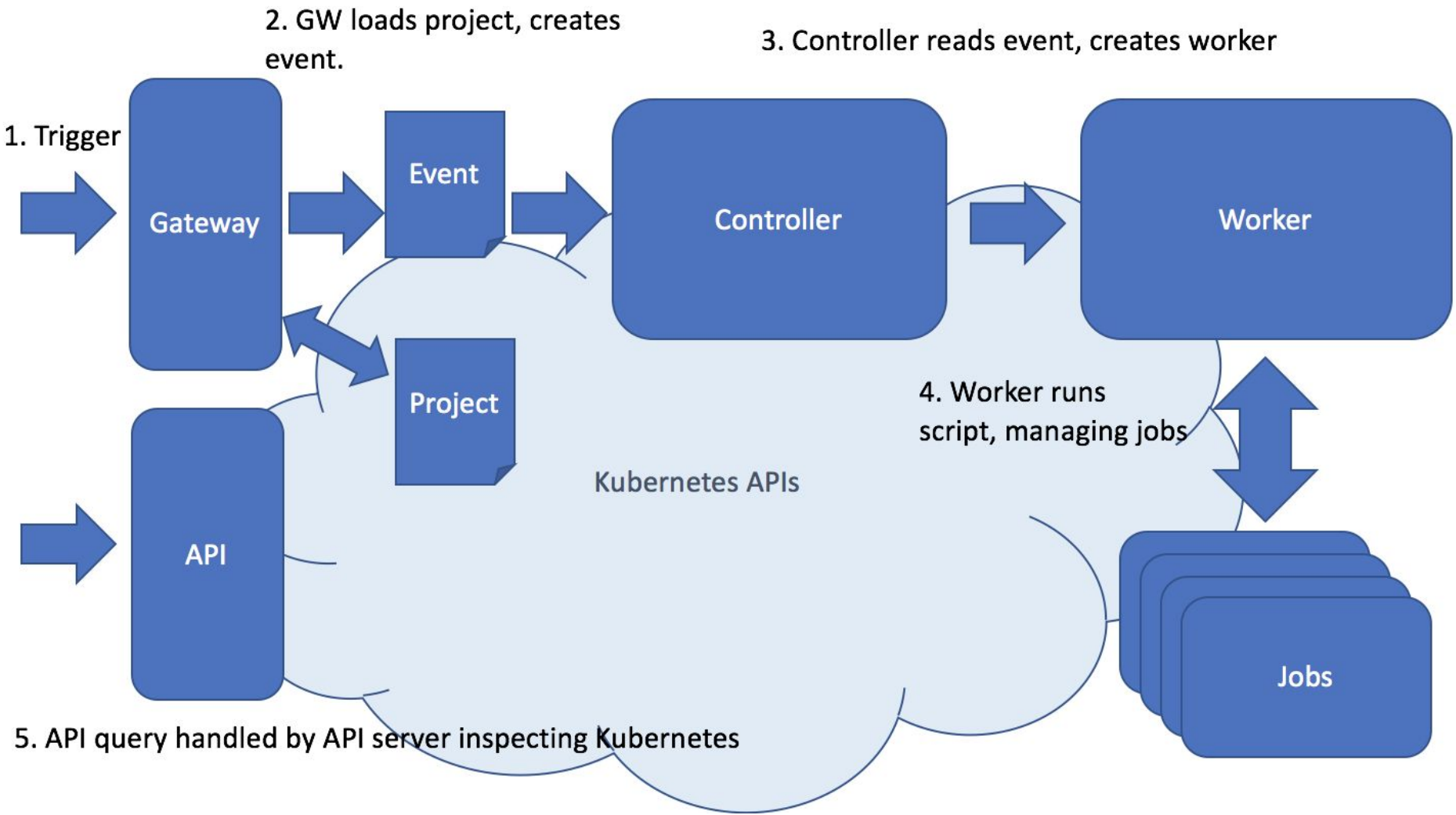
3 Golden Rules for Pipelines

1. Pipelines as code
2. Never store credentials in the code
3. Testing built in

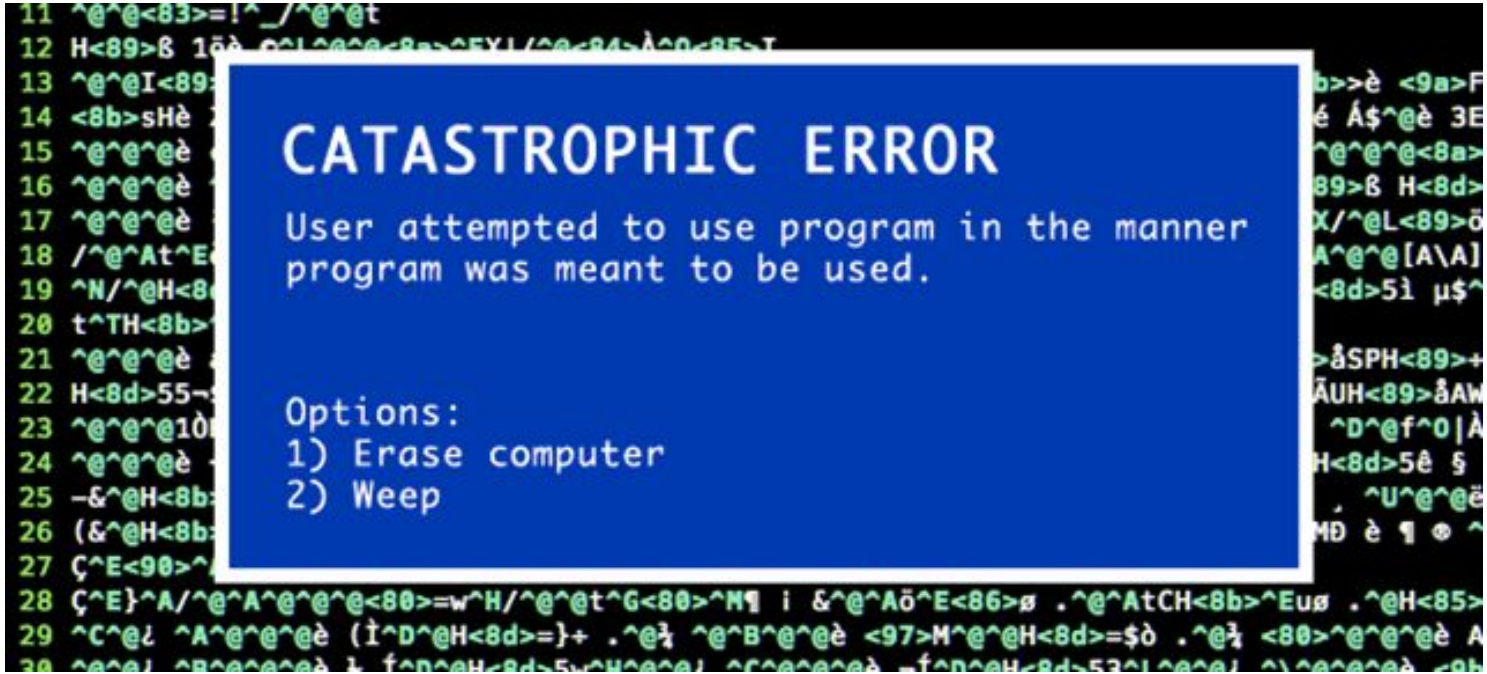
What is Brigade?

brigade = event-driven scripting for kubernetes

- ❏ encapsulate functions in containers
- ❏ run in parallel or serial
- ❏ trigger workflow from Github, Docker registry, etc.
- ❏ javascript (pipeline as code)
- ❏ project config stored as secrets
- ❏ well suited for CI/CD pipelines


2. GW loads project, creates event.
3. Controller reads event, creates worker
1. Trigger
Gateway
Event
Controller
Worker
Project
4. Worker runs script, managing jobs
Kubernetes APIs
API
Jobs
5. API query handled by API server inspecting Kubernetes

Time for live coding...



Questions

you can find me at

- @chzbrgr71
- brian.redmond@microsoft.com