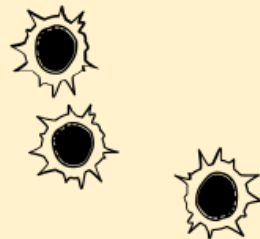# CI/CD WITH KUBERNETES

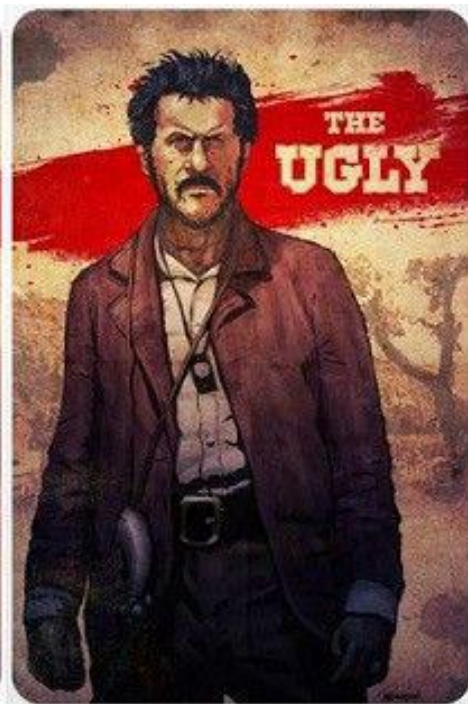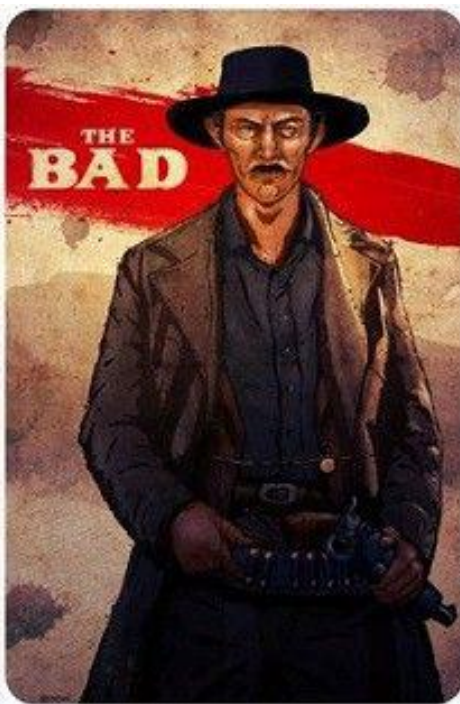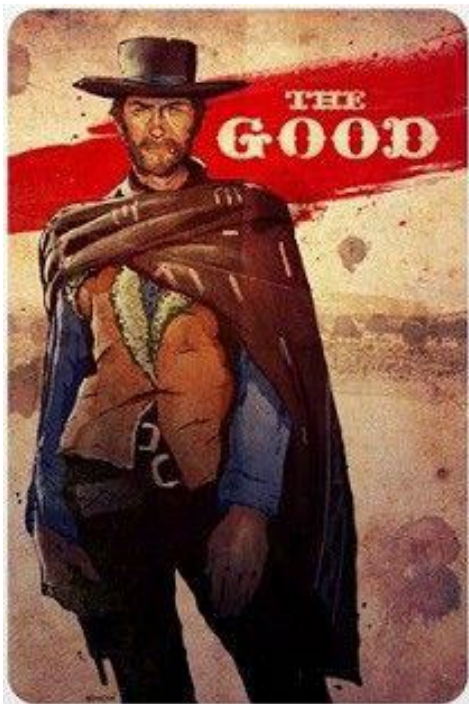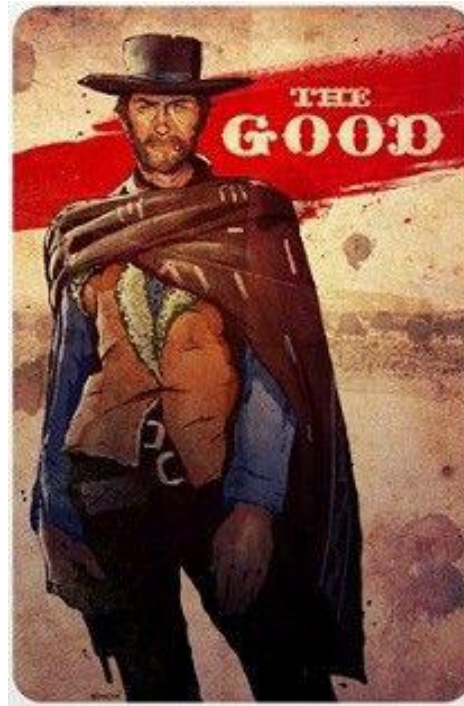## THE GOOD, THE BAD AND THE UGLY

HAGAI BAREL

ABOUT ME

- Father of two and husband of one

- Cloud Engineering team lead at Nuvo Group

- AWS Certified Solutions Architect (Associate)

- Container and Orchestration Specialist

- Expert in Distributed, Containerized, Scalable

  Applications and CI/CD Pipelines

- Instructor and lecturer

@hagaibarel

AGENDA

@hagaibarel

THE GOOD

THE GOOD

- Namespaces allow for soft multi-tenancy

- Complete instances of the whole environment can reside on different namespaces to allow parallel

  e2e/qa/integration testing

- Cluster-autoscaler can provision additional compute capacity to meet demands and scale down

  underutilized nodes when they're no longer needed

- Job executors can run inside pods and be dynamically created (no more static build servers)
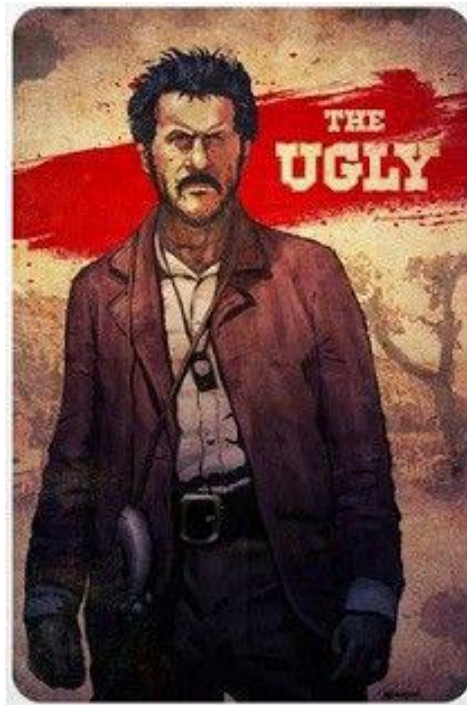
@hagaibarel

THE GOOD
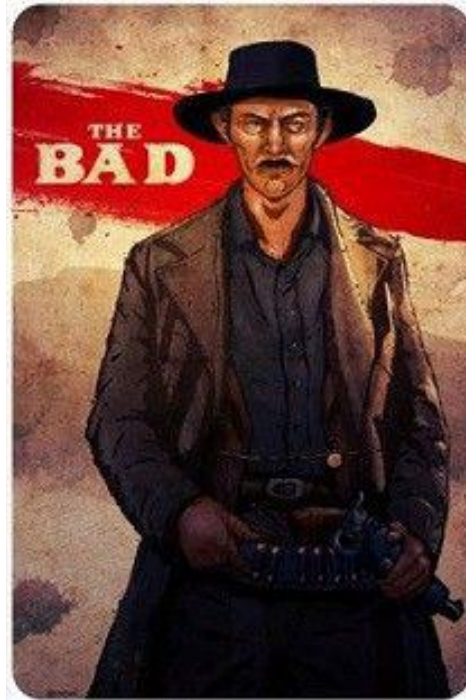
THE BAD

THE BAD

- Few tools today were built with kubernetes as a first class citizen

- Integration is usually achieved with plugins and extensions which are hard to configure and maintain

- The tools landscape is extremely fragmented

- Don't go down the DIY path...

THE UGLY

THE UGLY

- Multi cluster permissions can get messy

- Unchecked resource consumption can cannibalize existing workloads

- Dynamic provisioning == dynamic billing

DEMO