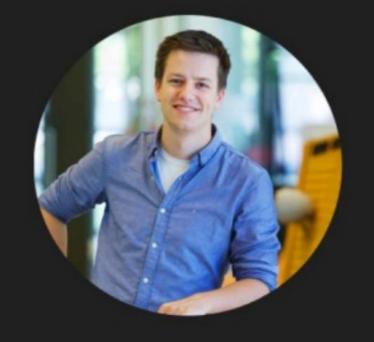
Automating Flink deployments to Kubernetes

ING Wholesale Banking Advanced Analytics

Niels Denissen & Marc Rooding







Marc Rooding

Niels Denissen



Wholesale Banking Advanced Analytics (WBAA)





Imagine a cluster with a stateful job



We need to update it

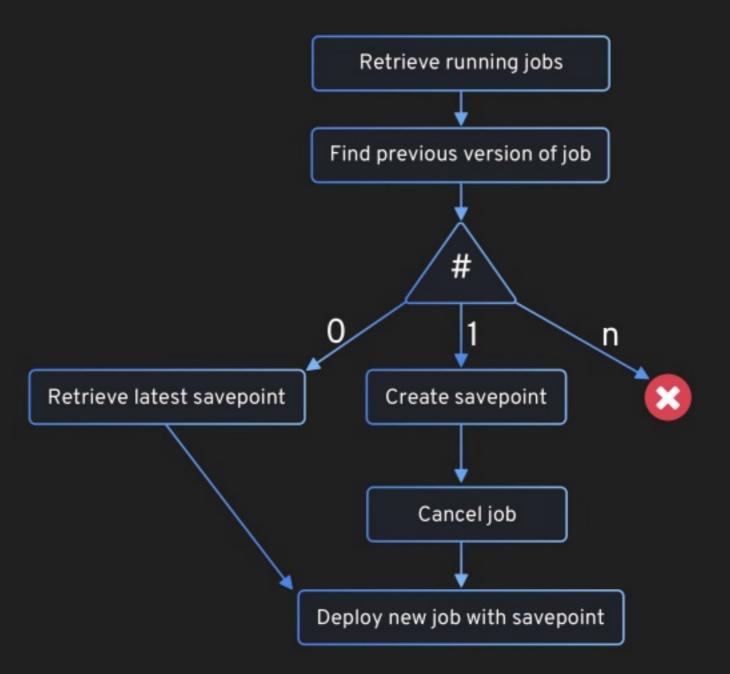


Updating is a multi step process



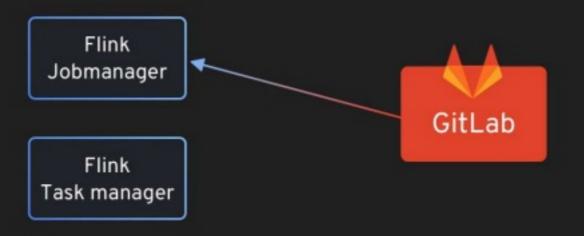
Don't do it manually











Introducing: the Flink job deployer



We want it to be:

Automated



- Automated
- Tested



- Automated
- Tested
- Reliable



- Automated
- Tested
- Reliable
- Maintainable



- Automated
- Tested
- Reliable
- Maintainable
- Small footprint



How do we interface with Flink?



CLI

ING 🔊



CLI

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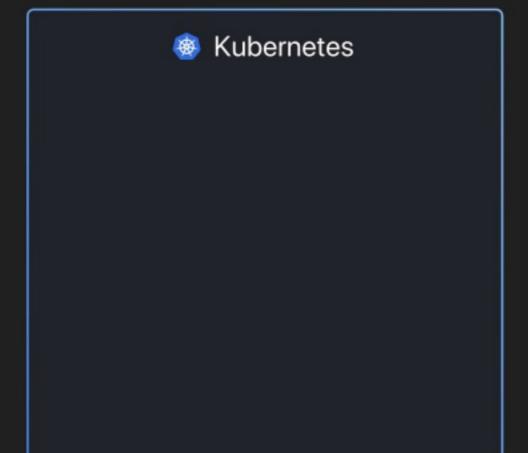
REST



So, we're done?



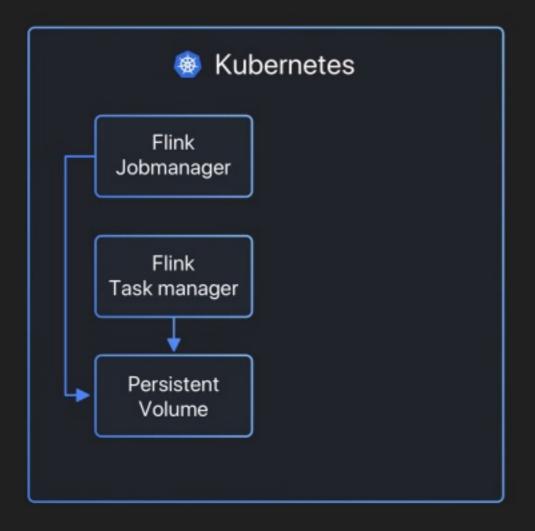




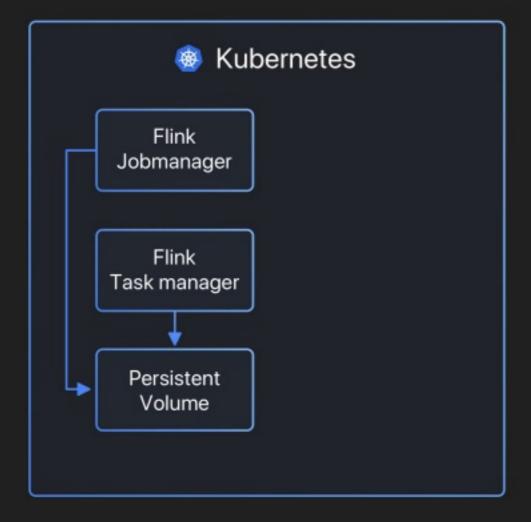




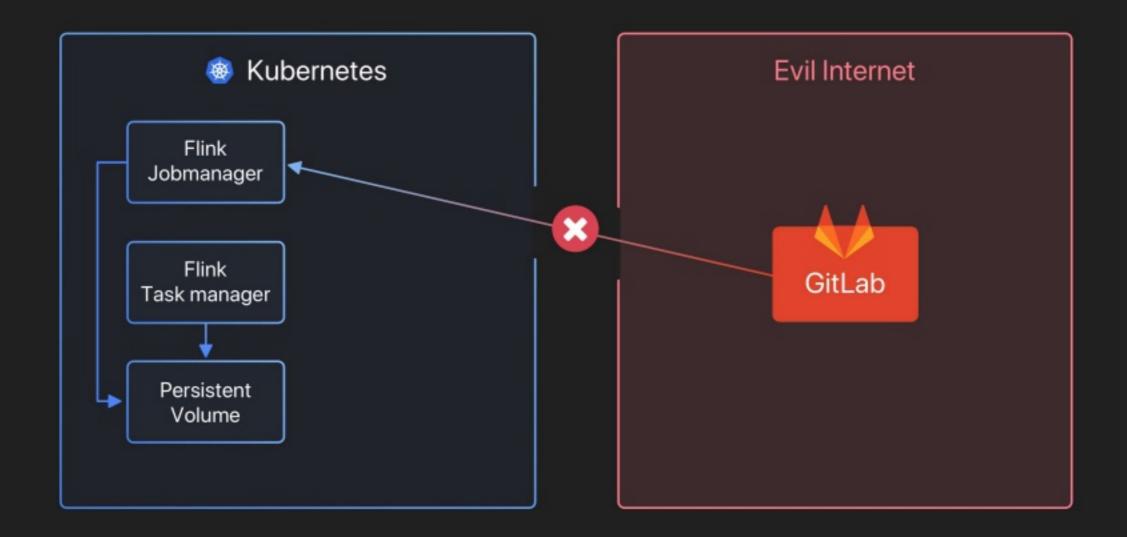




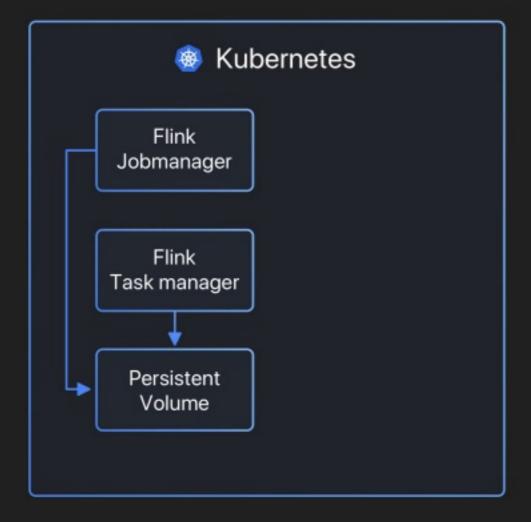








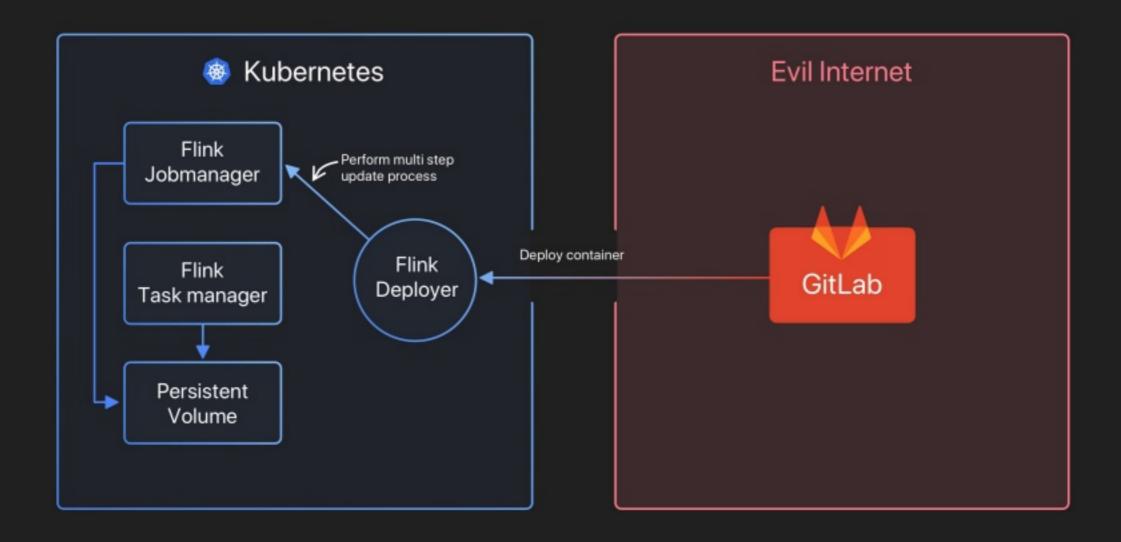








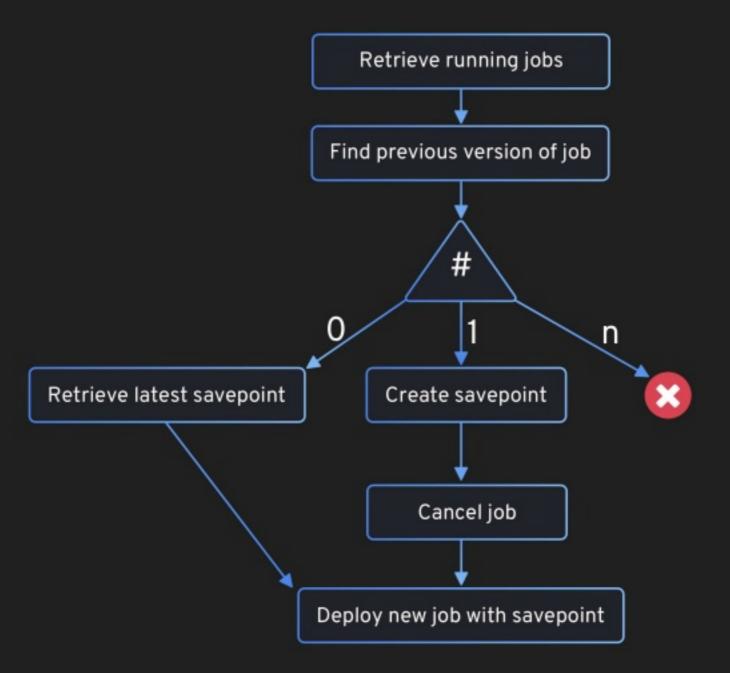






So, we're done?

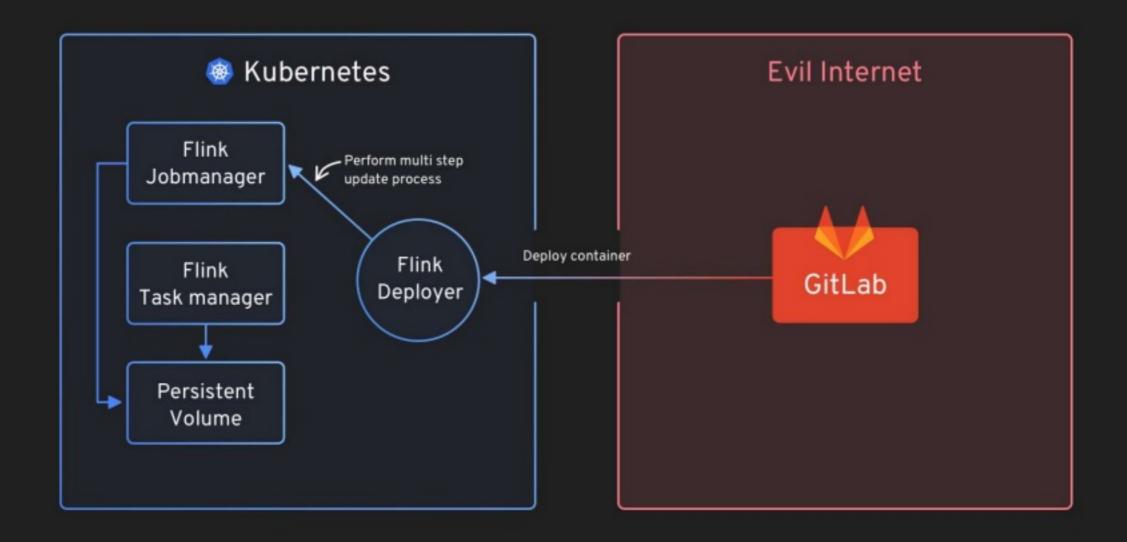




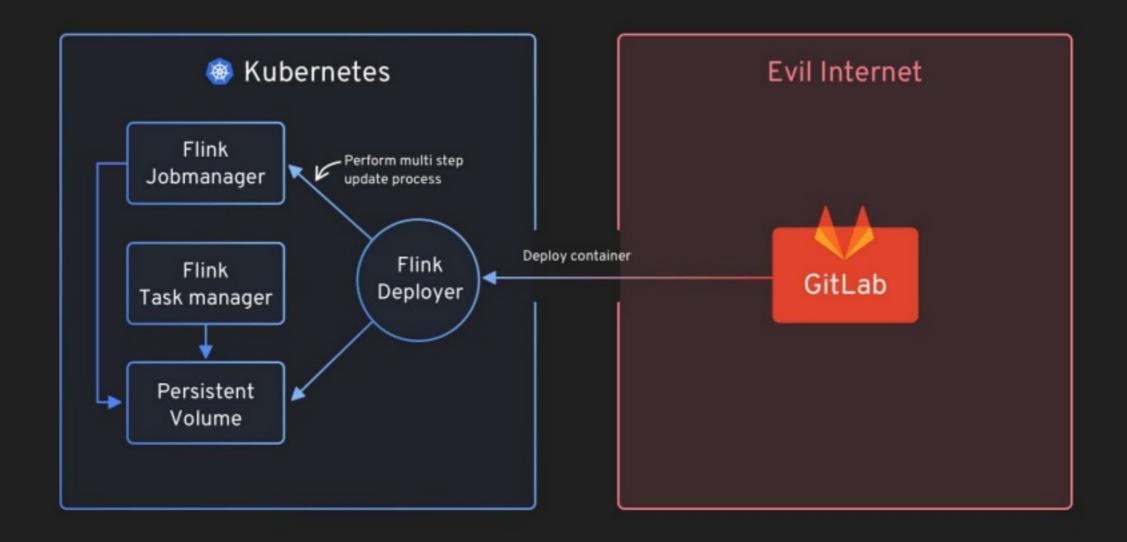


How do we find the latest savepoint?











So, we're done?



We need you!



Wrapping up

We built a Dockerised open-source application in Golang



github.com/ing-bank/flink-deployer



medium.com/wbaa/flink-deployer-8c0db4c94fe4

