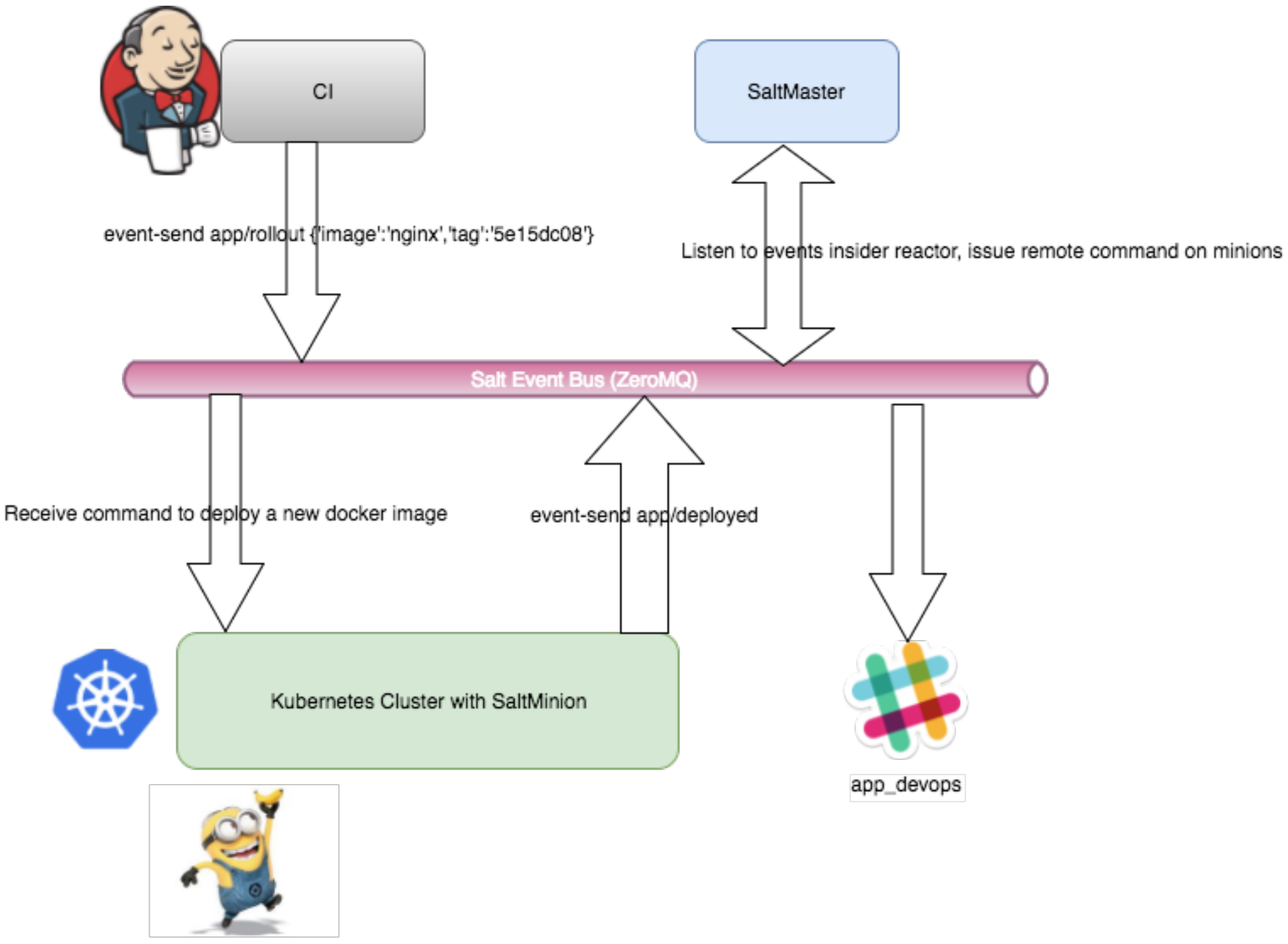
EVENT DRIVEN INFRASTRUCTURE

CONTINUOUS DELIVERY ON KUBERNETES AND ECS

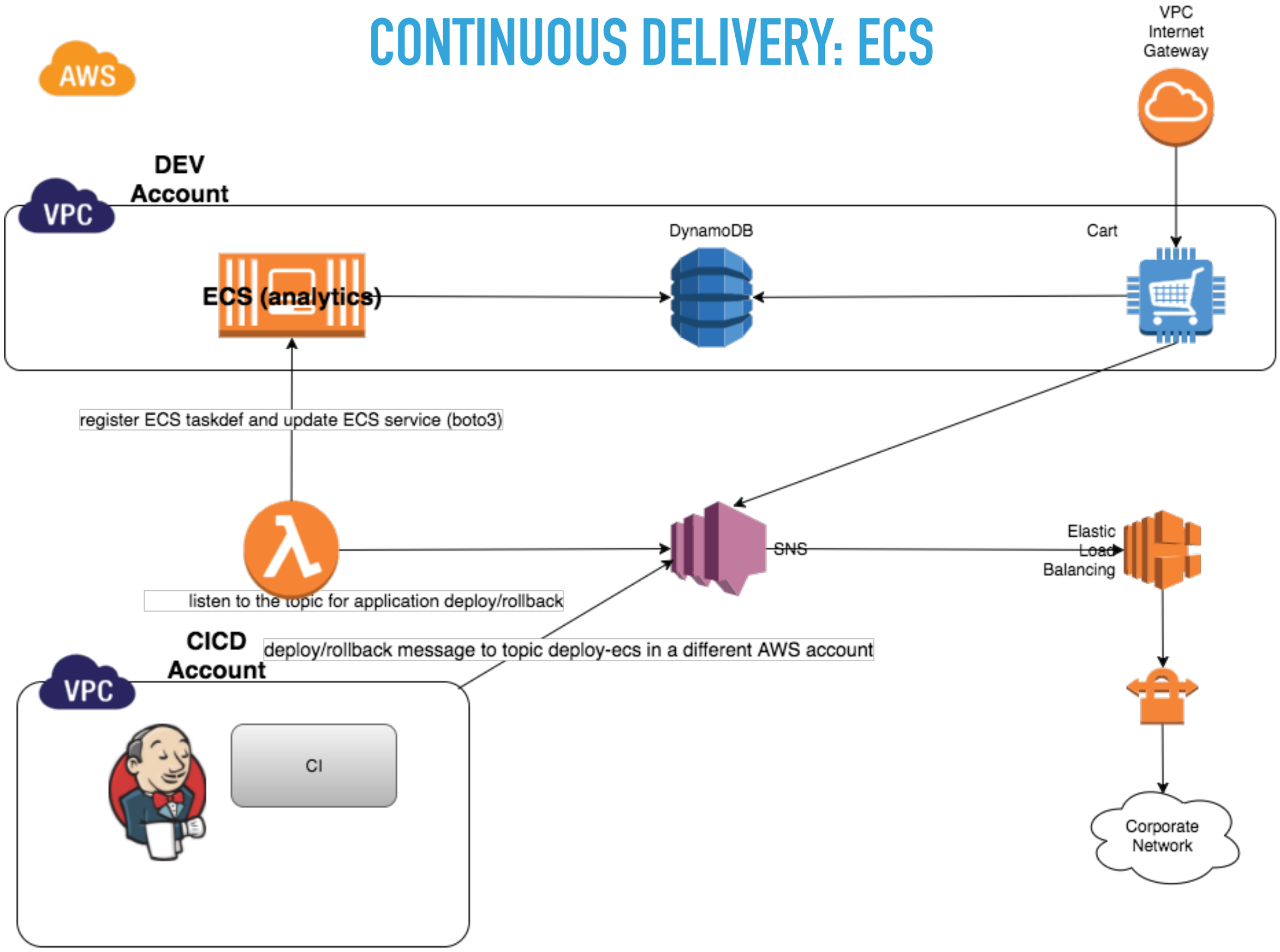
AGENDA

- Victor Yang @pydevops
- Kubernetes example with CD
- ECS example with CD
- Benefits
- Downside

CONTINUOUS DELIVERY: KUBERNETES



CONTINUOUS DELIVERY: ECS



BENEFITS

- For system that is asynchronous and reactive, feel more **natural** and **intuitive** by decoupling deploy logic (event subscriber) from CI (event publisher).
- Can be extended to treat PaaS (platform as service) ‘s application life cycle such as rollback, creation and destroy as events too.
- The architecture pattern can be applied in the cloud, on premise, Kubernetes or ECS.
- Minimize the IAM policies between CI and application deployer. For example, only pushing message to SNS topic IAM role is granted across the accounts.

DOWNSIDE?

- More complex to troubleshoot. Best practice is to integrate with a centralized logging and monitoring such as CloudWatch(aws), Xray(aws) ,Stack Driver(google cloud), OpenTracing.

SAMPLE CODE

- https://github.com/pydevops/eventdriven-cd