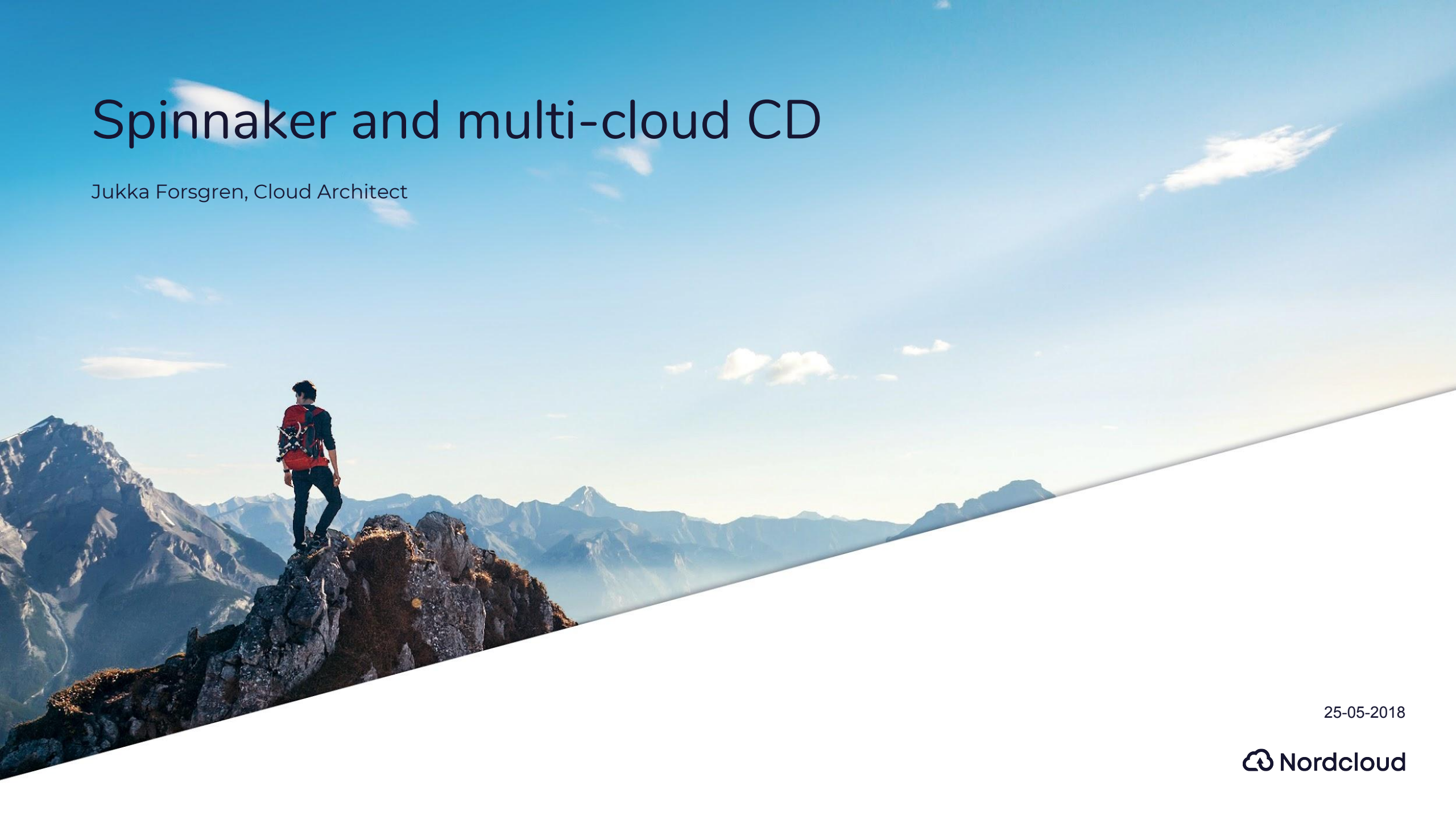


# Spinnaker and multi-cloud CD

Jukka Forsgren, Cloud Architect



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# About myself

# Software deployments in legacy IT

- Slow
- Fragile
- Manual
- Bureaucratic

# Benefits of a CI/CD pipeline

- Automated
- Increased velocity
- Better developer experience
- More productive also for Ops team

# Customer project - winter 2018

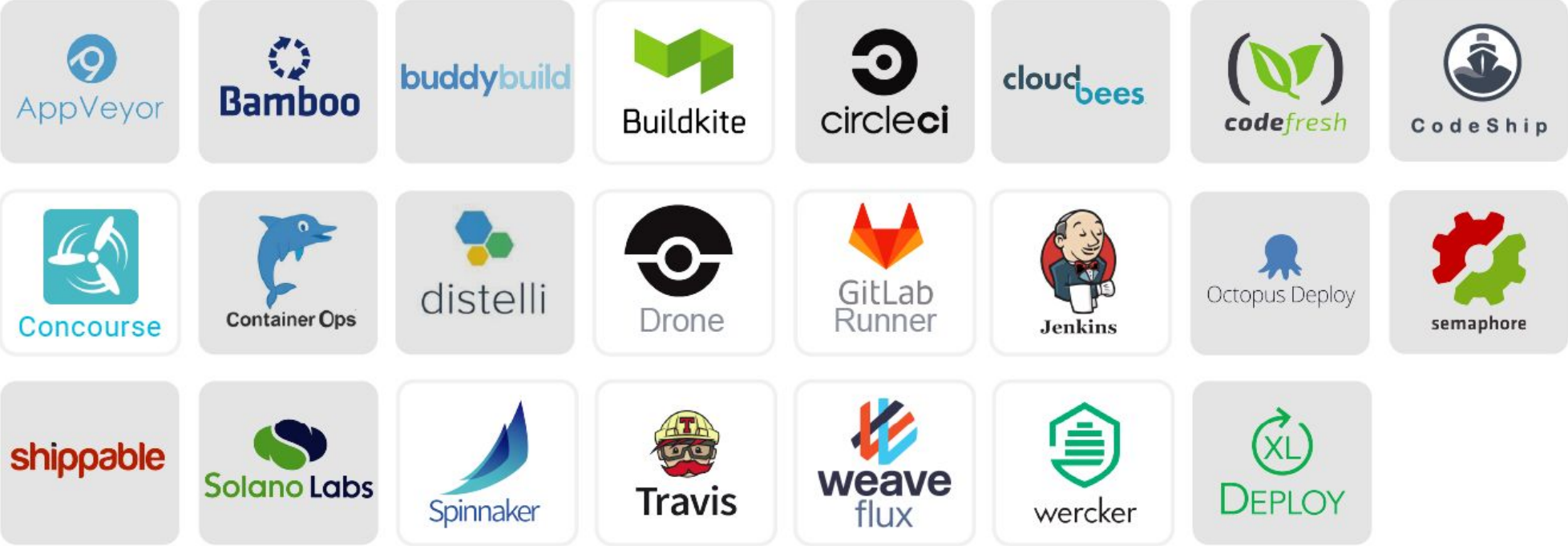
- Replace old deployment mechanism
- Use an established product/project
- Provide more visibility and control to developers
- Must support all cloud providers
- Must support ASG based deployments
- Must support containers



# Spinnaker

- Netflix, Google, Microsoft, Pivotal
- Open-sourced in 2015
- Microservices implementation
- Part of CNCF landscape

# CI/CD





# Spinnaker - Supported providers

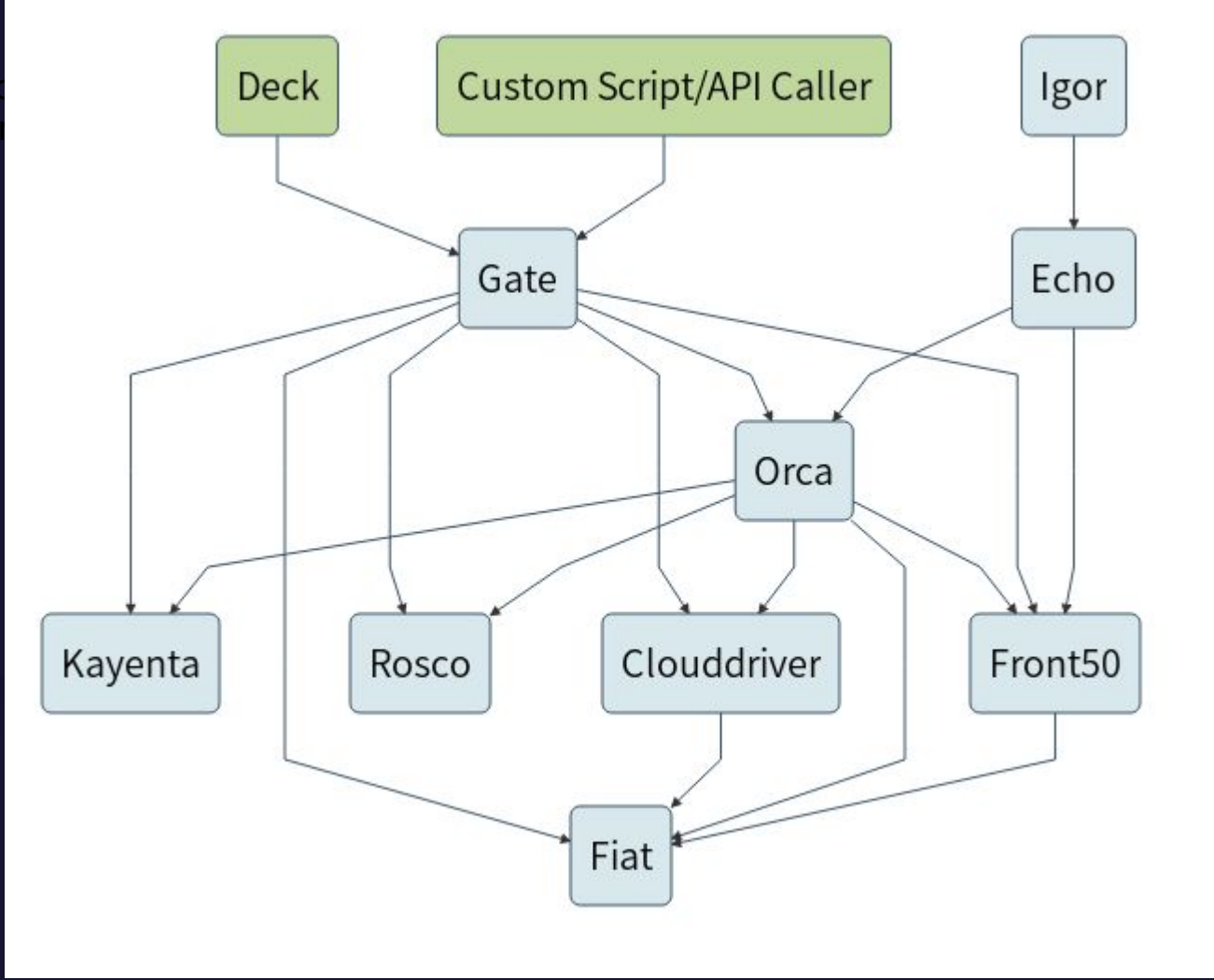
- Google App Engine
- AWS
- Azure
- DC/OS
- Docker v2 registry
- Google Compute Engine
- Kubernetes
- OpenStack

# Spinnaker - Components

<https://screenshots.firefox.com/1IHSm9qaD9gGcSVB/www.spinnaker.io>

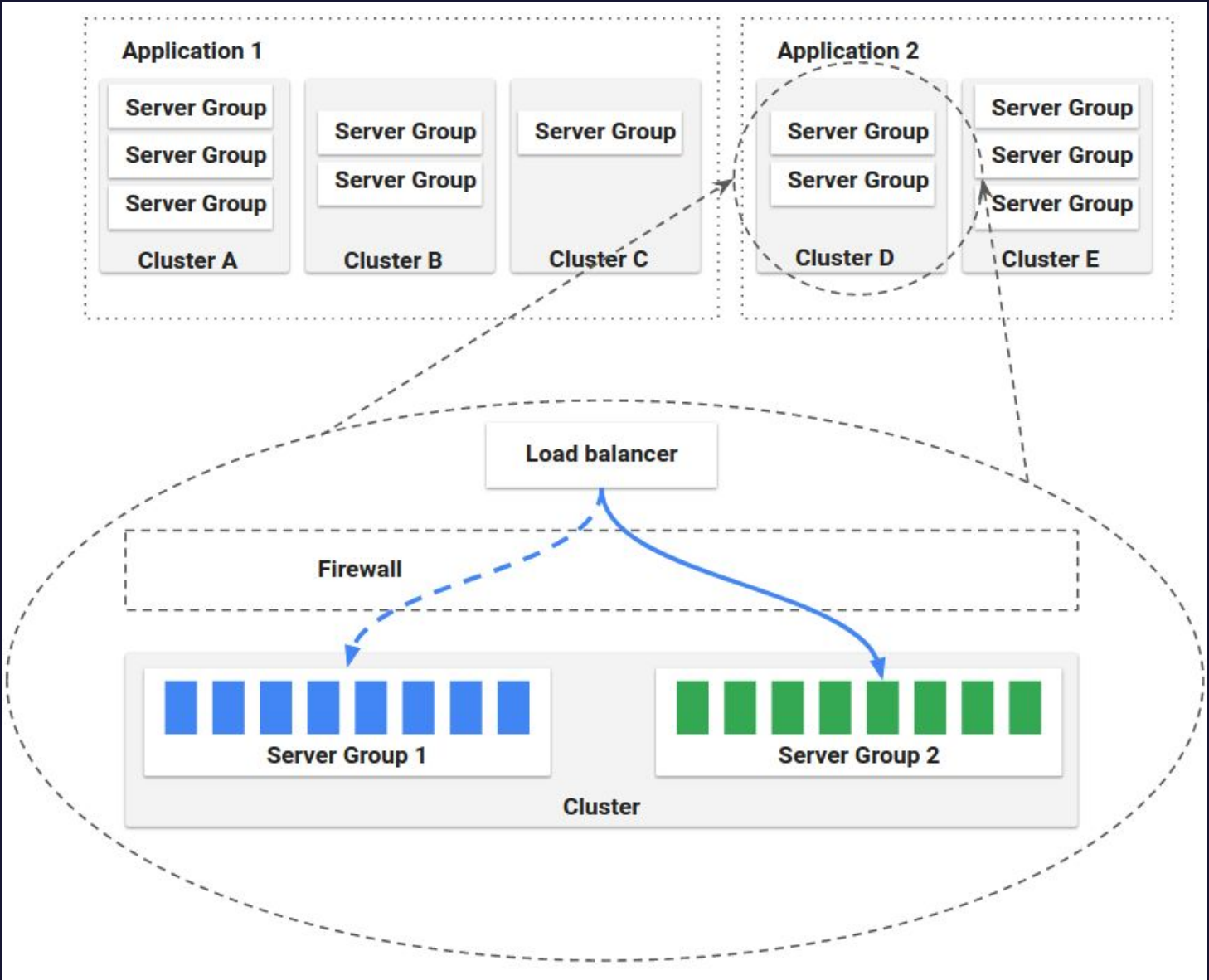
- deck (browser based UI)
- orca (internal orchestration engine)
- igor (integration with Jenkins, Travis CI, etc.)
- gate (API gateway)
- echo (eventing bus for notifications)
- rosco (image bakery)
- fiat (authentication service)
- front50 (persist all Spinnaker metadata)
- kayenta (canary deployments)

<https://screenshots.firefox.com/Sm9qaD9gGcSVB/www.spil>  
o



# Spinnaker - Concepts

- Account
- Application
- Cluster
- Server group
- Pipeline
- Stage
- Trigger

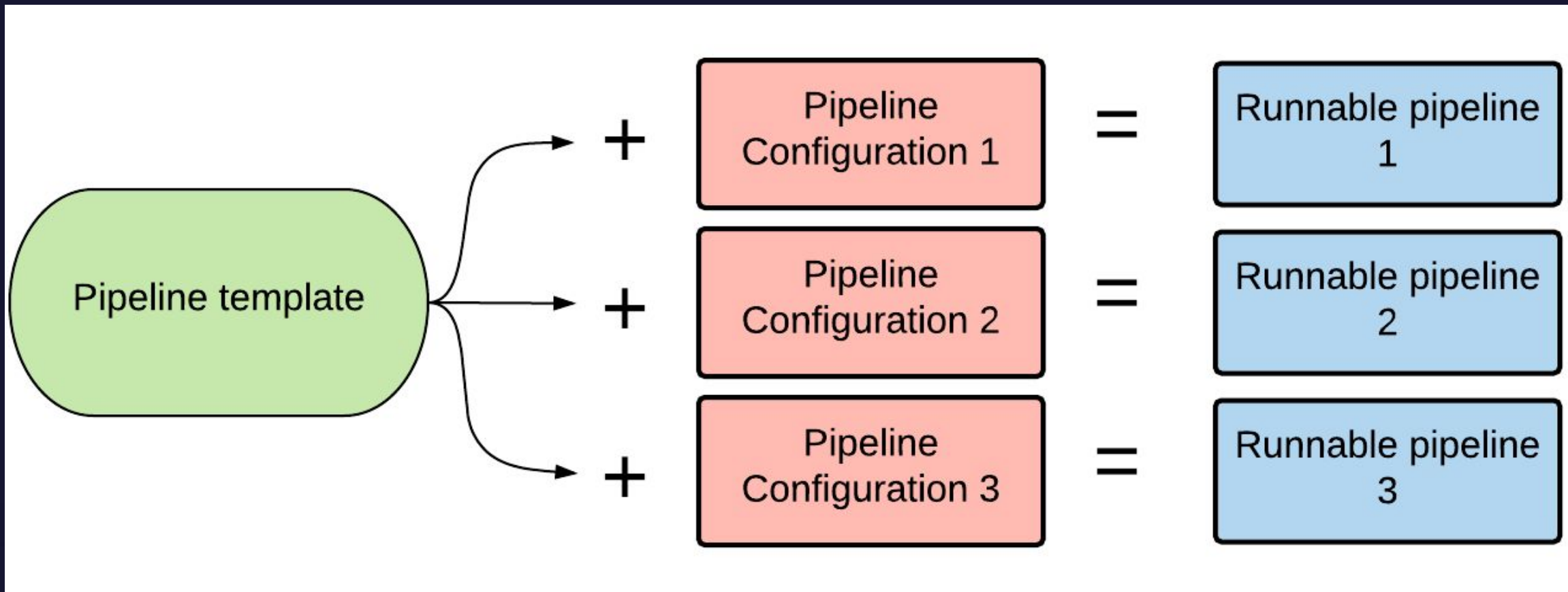


# Spinnaker - Deployment types

- Highlander
- Red/black
- Custom
- Rolling red/black (experimental)
- Canary (with Kayenta)

# Spinnaker - Templated pipelines

- YAML
- Jinja2
- roer CLI tool
- Spinnaker API (gate)





# Spinnaker - Installation options

- Halyard
- Helm Chart
- AWS Quickstart

# Spinnaker advantages

- Tailor made for multi-cloud CD
- No need for scripting or plugins
- Nice UI into cloud accounts and deployments
- Tightly integrated with packer

# What's wrong with Jenkins?

- Made before cloud became a thing
- Too many plugins
- Not designed for containers

# Lessons learned

- Have OSS mindset
- Allocate enough time and resources
- Read also [armory.io](https://armory.io)'s documentation

Thank you