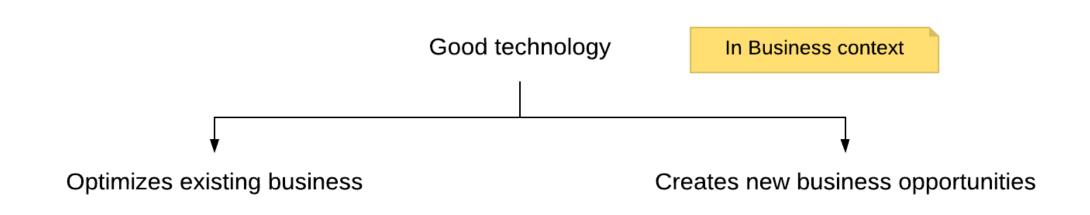
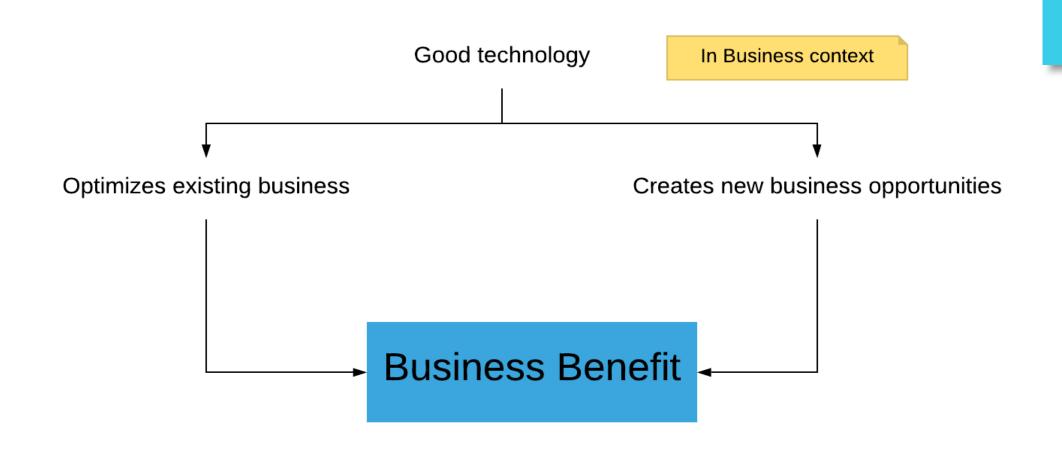
Giri Reddy

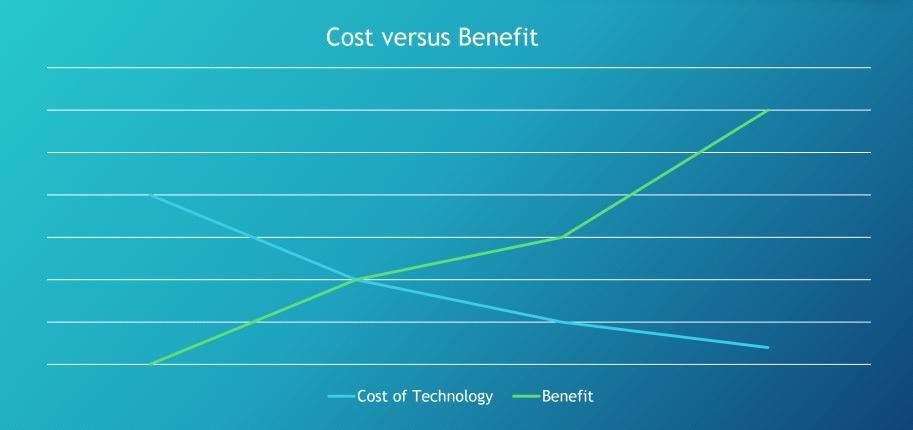
Agility, Autonomy and Speed to Market with Spring Cloud Config Server

What is a good technology for Business?





Business benefit



Cost of technology

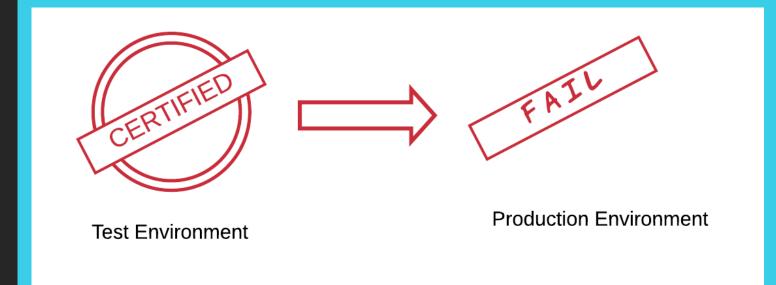


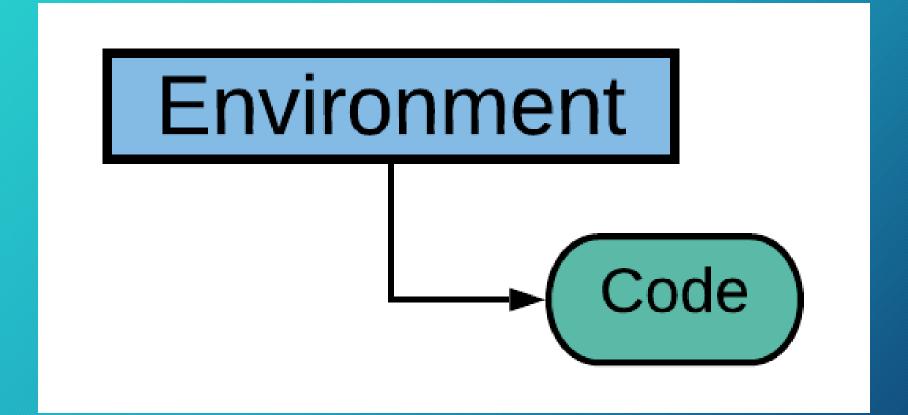
Cost of operations

Business benefit

Why software fails when released to production?

Why?





Code

Code

DB structure

Inputs

Outputs

Requests

Responses

File structure

Integrations

Environment Code data

Environment Code data Infrastucture

Environment Code data Infrastucture app configs

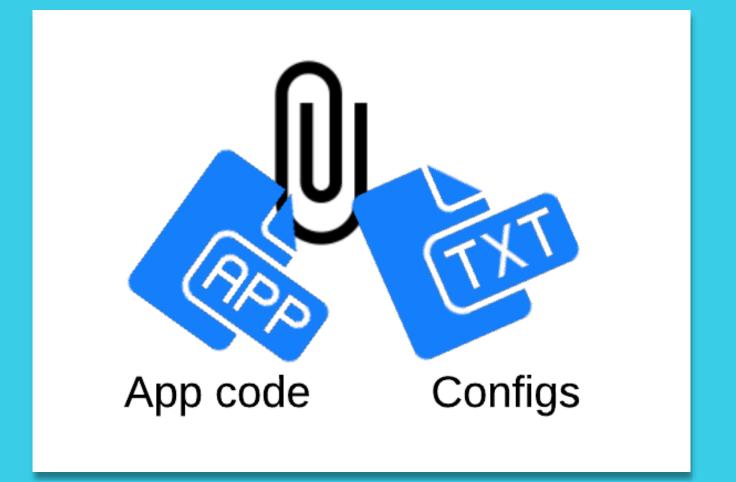
Configs

Plain text

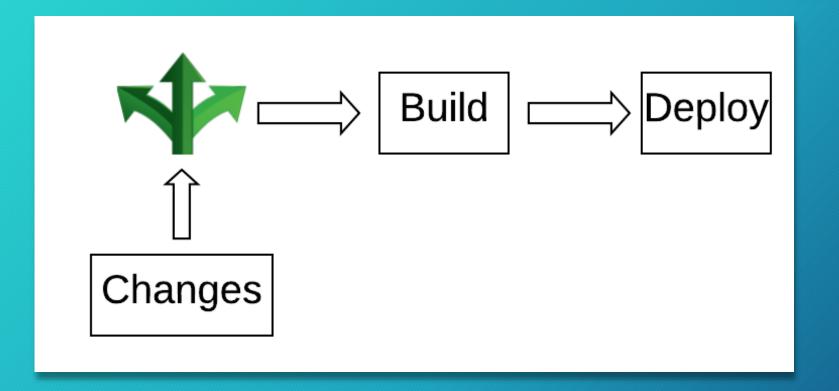
Secrets



Bundled in to code

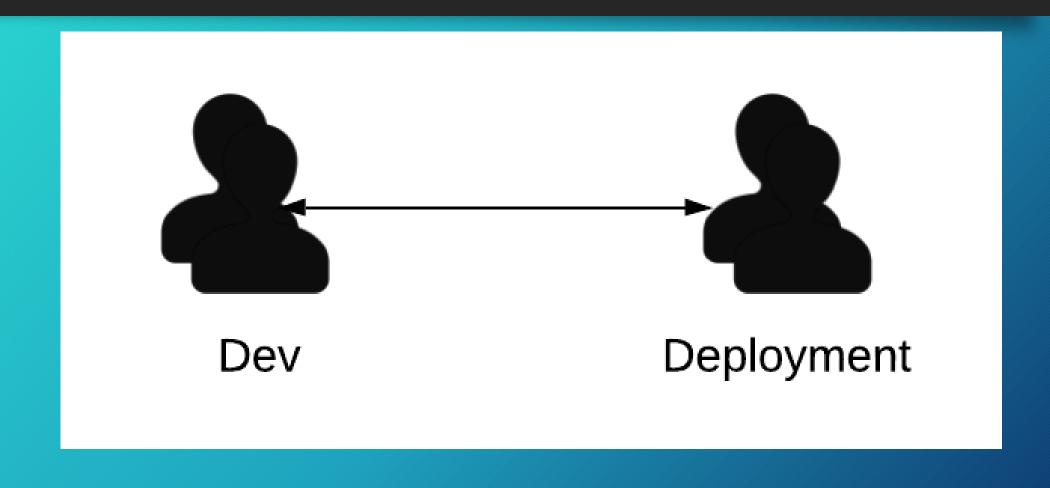


Bundled in to code

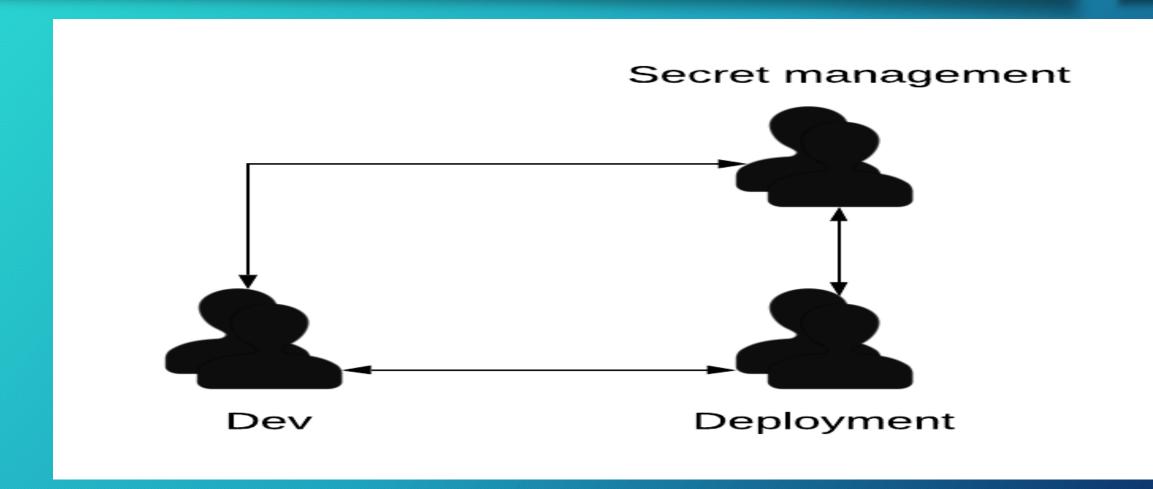




Bundled in to code - team dependencies



Bundled in to code - team dependencies



File system



Configs in file system





DB, Vaults, application containers

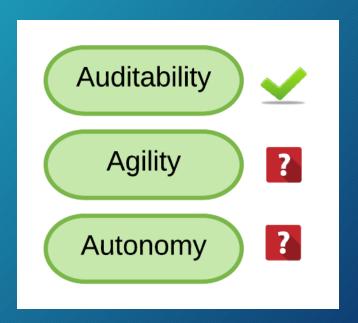




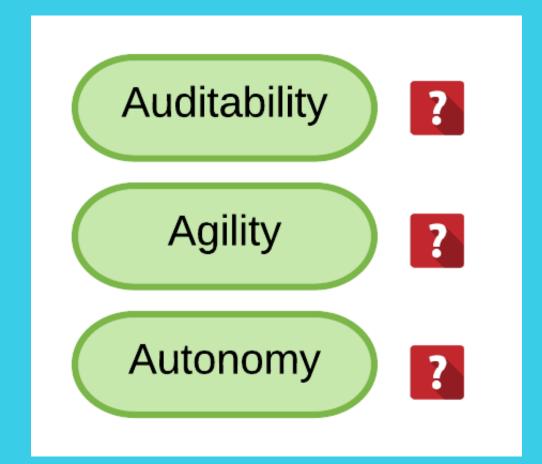


Configs in DB, Vaults, application containers





Environment variables, JVM properties







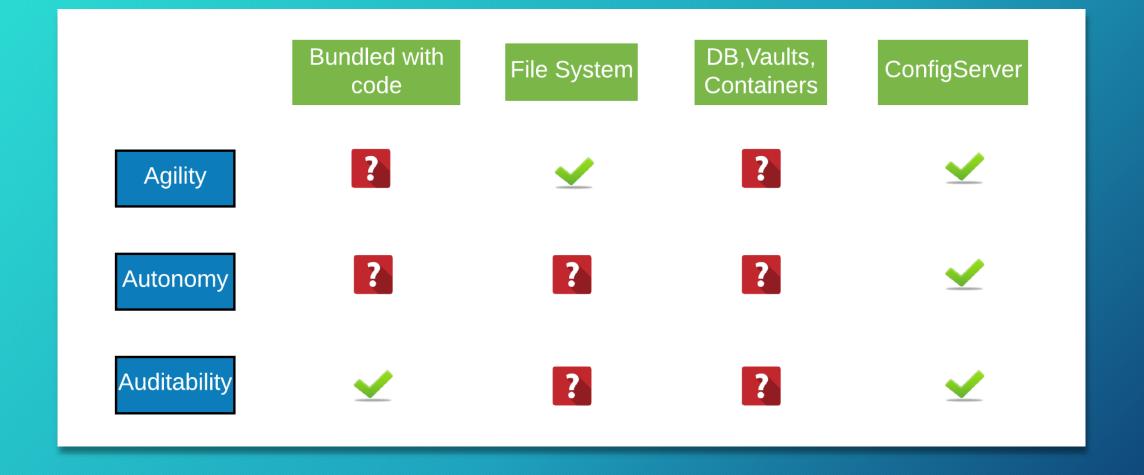
Helm



Lets revisit

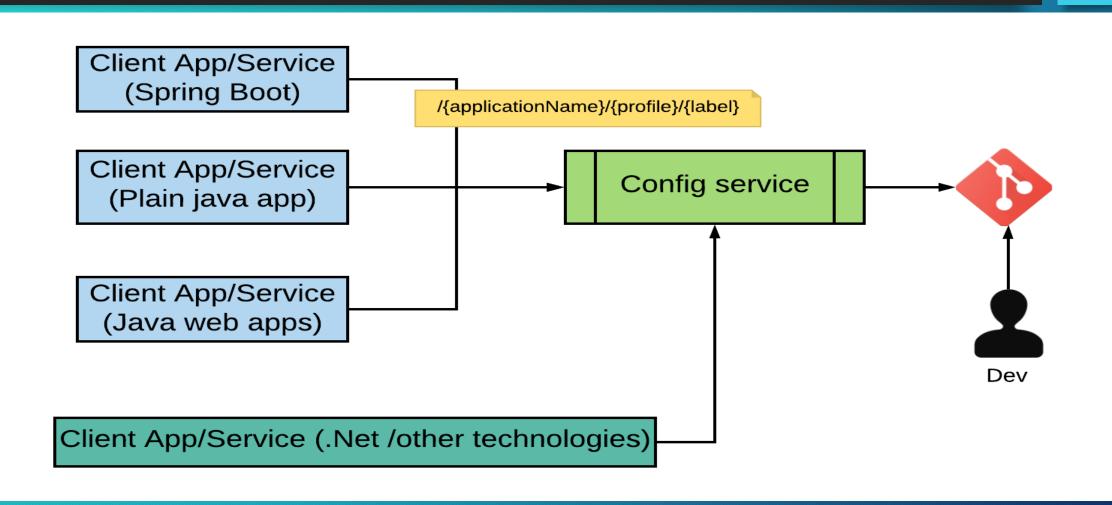
Spring Cloud Config Server

Demo



Config server

Config server - High level



https://configserver.giri.com/<u>foo/production/master</u>

Live Demo

@EnableConfigServer

-Dspring.config.name=configserver

@RefreshScope

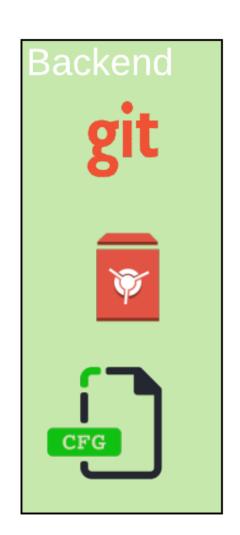
Config server

REST Service

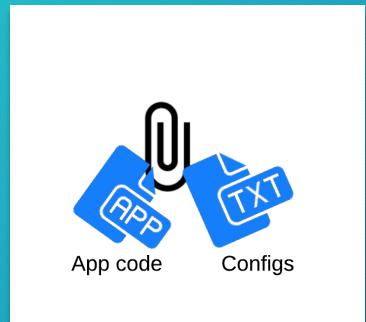
Centralized

Client side support

Secret management



Config



Secrets?





Config server - Secrets

Encryption

Asymmetric

Config server -Secrets (Symmetric encryption)

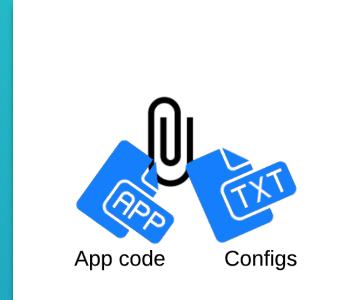
e488d768de8957f5210ce030d6f74df3de 9c016b5c54c4c5214b2ccc1331b595cf6d dd205453fb30bbaec9b2ee05c06685378 7961c1fb662f3cd7a32cfc00eee

Config server -Secrets (Asymmetric encryption)

AQBMFbA+9aRKzjE9I4UR53RhfndD90tP UNjcSPj4jLe1Z6C6OUIj9BtVQbfXAbOMT QqR38E//uvTm92cEb122DW3p3Ui0pF6 Bflpy4vdQRfOqbWTvA2B0WyFBulCdNoi 6f3yDBWCIyMUwRXelzJBkfYHODpVMtsR TfT3alNDdxfEF/MBTWfPc6pN51gppPsX2 +ZDJfEKNclagH5I65WeXQaDYx+IlQrDygn NJNkCmEcApf4cUP/0MIjfulbq1JLSYRwV 2Jk0OqldyFT7ENXEFAPf9NEoNEFOmxKk 9y/IN4Bj1ryHlzCxaiELiBx84I6RU+55pAfz YvOu3ARZItkc8I18Y6HA8t93MldSh6fNU+ 2Ffj7rol2bOKfPluwIdhftMP+GFHO64im5 ugvHU8lTYdxRcRhtcjxYt3B1bVUu7nvtD

W==

Config









Config server vs Helm

Config Server

Helm

Technology agnostic





Refresh at runtime





Few more

Consistency

Performance

Security

Simplicity

Business Value

Non critical apps

configs don't change much

Simple apps

Not many configs

Business Value



Critical apps

Configs change often

Complex apps

Many configs

Questions