

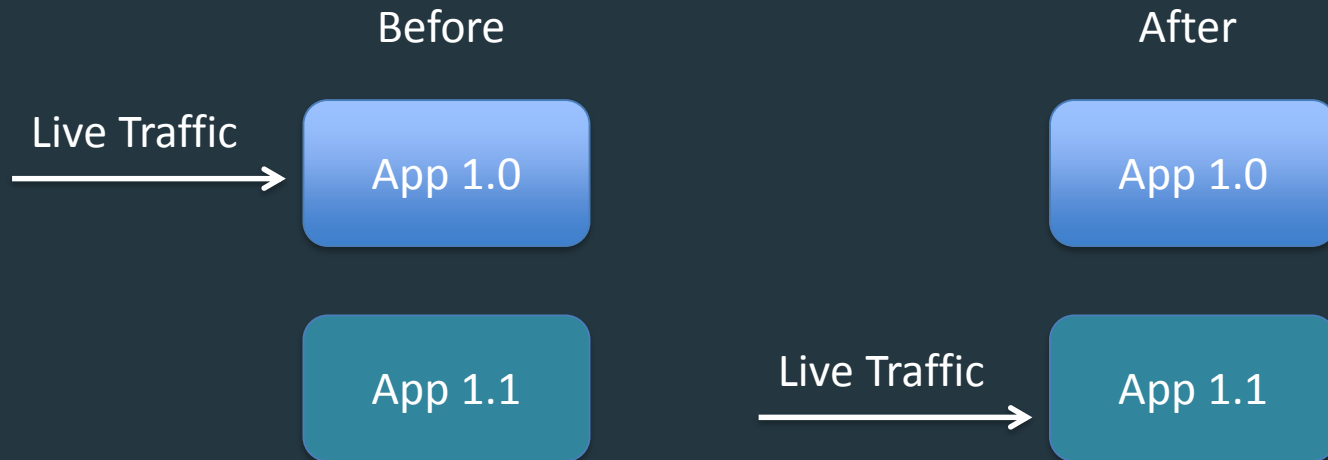
Blue-Green Deployments

Agenda

1. Blue-Green Routing
2. Implications on App Design

Blue-Green Deployment

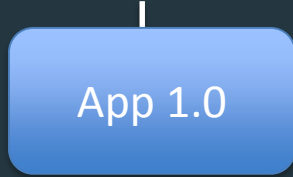
Zero downtime when upgrading can be accomplished with blue-green deployments.



Blue-Green Deployment

Before

`myapp.cfapps.io`



App 1.0

`myapp-temp.cfapps.io`



App 1.1

Blue-Green Deployment



Blue-Green Deployment



Agenda

1. Blue Green Routing
2. Implications on App & Data Model Design

Serializing Objects

If using serializing objects, don't make destructive changes.

e.g. don't remove fields, do have a
`serialVersionUID`

The 12 Factors

Codebase

Dependencies

Config

Backing
Services

Build, release,
run

Processes

Port binding

Concurrency

Disposability

Dev/prod parity

Logs

Admin Processes

Admin Processes

Run admin/mgmt tasks as one-off processes.

e.g. migrating data

Database

Do make changes idempotent.

e.g. copy data to a new field (don't delete data)

Database

No destructive database changes allowed.

e.g. don't drop a column

Database

Do have backwards compatible changes.

e.g. nullable fields

A dark, atmospheric photograph of the Golden Gate Bridge in San Francisco. The bridge's iconic red-orange towers and suspension cables are visible, partially obscured by a thick layer of fog or mist that fills the background and the lower part of the frame. The bridge spans a deep, rocky gorge, with the rugged cliffs visible in the foreground. The overall mood is mysterious and iconic.

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