# YETANOTHER ENWRONMENT

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#### What is an environment?

Runs your code.

Lives for days, weeks, months, or years.

Shared across developers and/or teams.

Periodic releases or continuous delivery.

# The Goal: Deliver Quality Software

# The Problem: How do I know my code works?



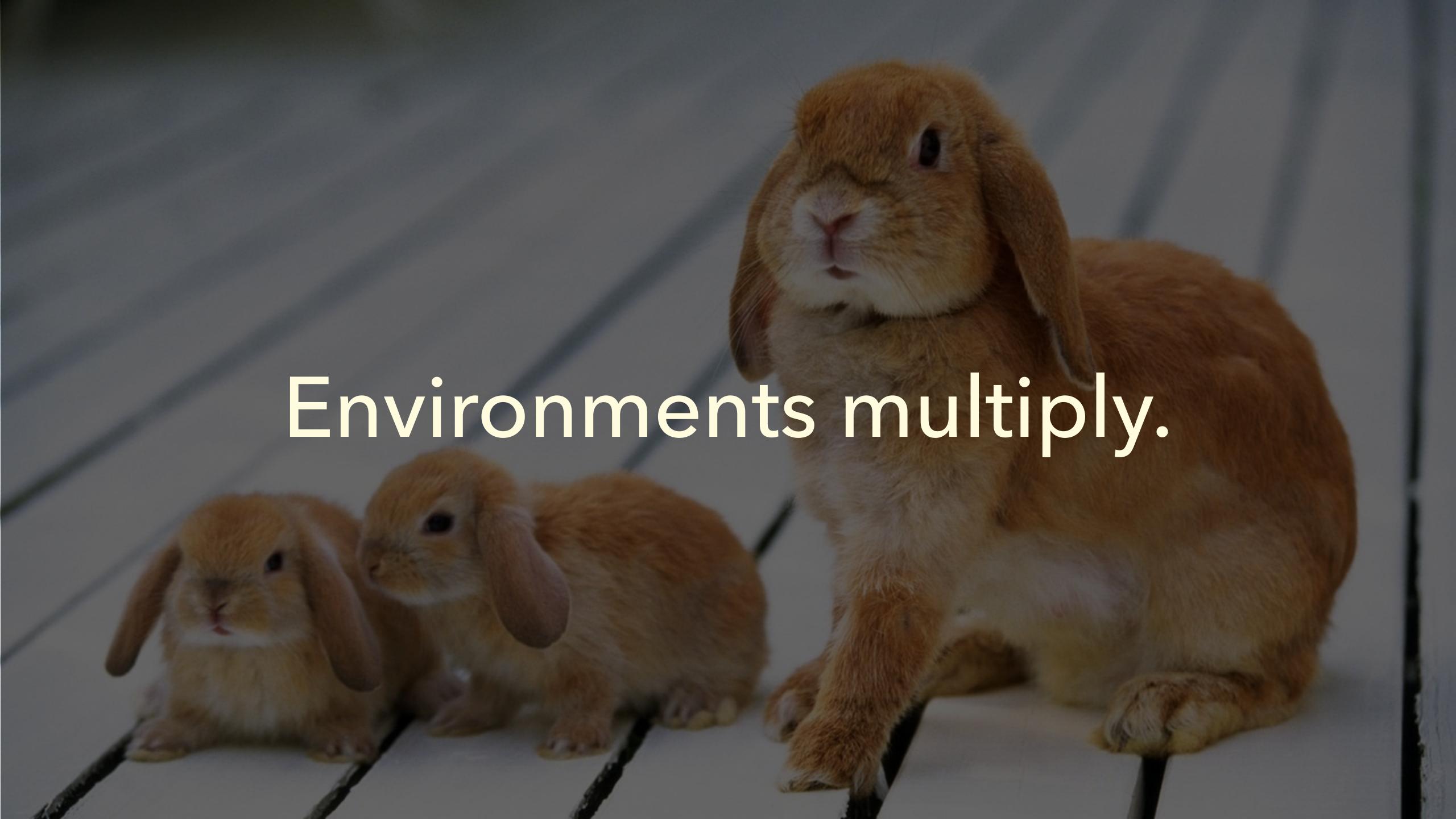




## What's the big deal?









Development DI CI Test Staging Production Stable

Development	DI	CI	Test	Staging	Production	Stable
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## Good News: We have more tools available.

#### Feature Flags

```
if feature.IsEnabled("newWidget") {
  widget := widget.New()
} else {
  widget := widget.Old()
widget.render()
```

#### Team Shipping

```
if user.IsInGroup("my-team") {
  widget := widget.New()
} else {
  widget := widget.Old()
widget.render();
```

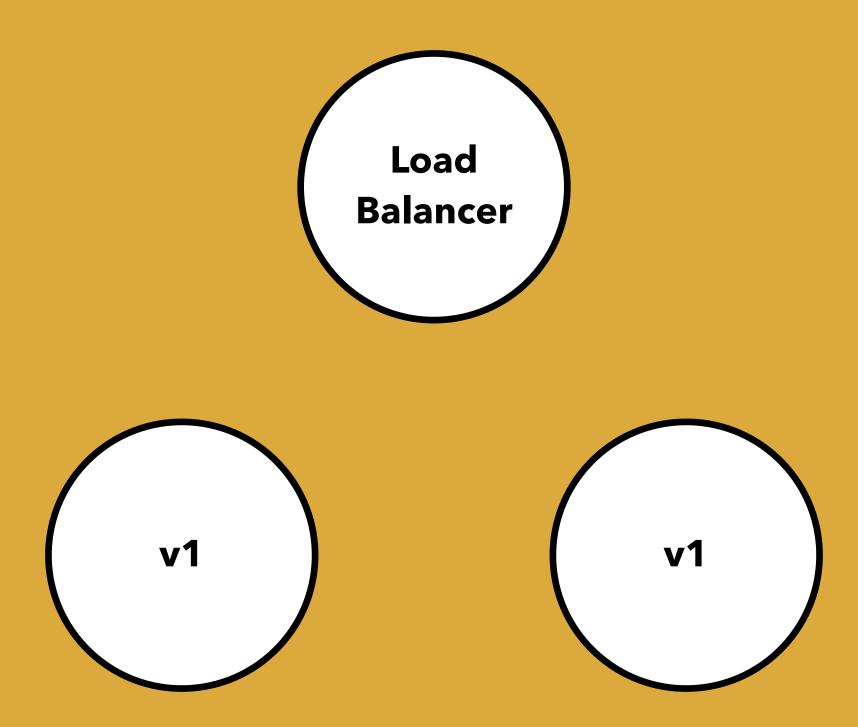
#### Phased Rollout

```
if user.IsInPercentage(10) {
  widget := widget.New()
} else {
  widget := widget.Old()
widget.render();
```

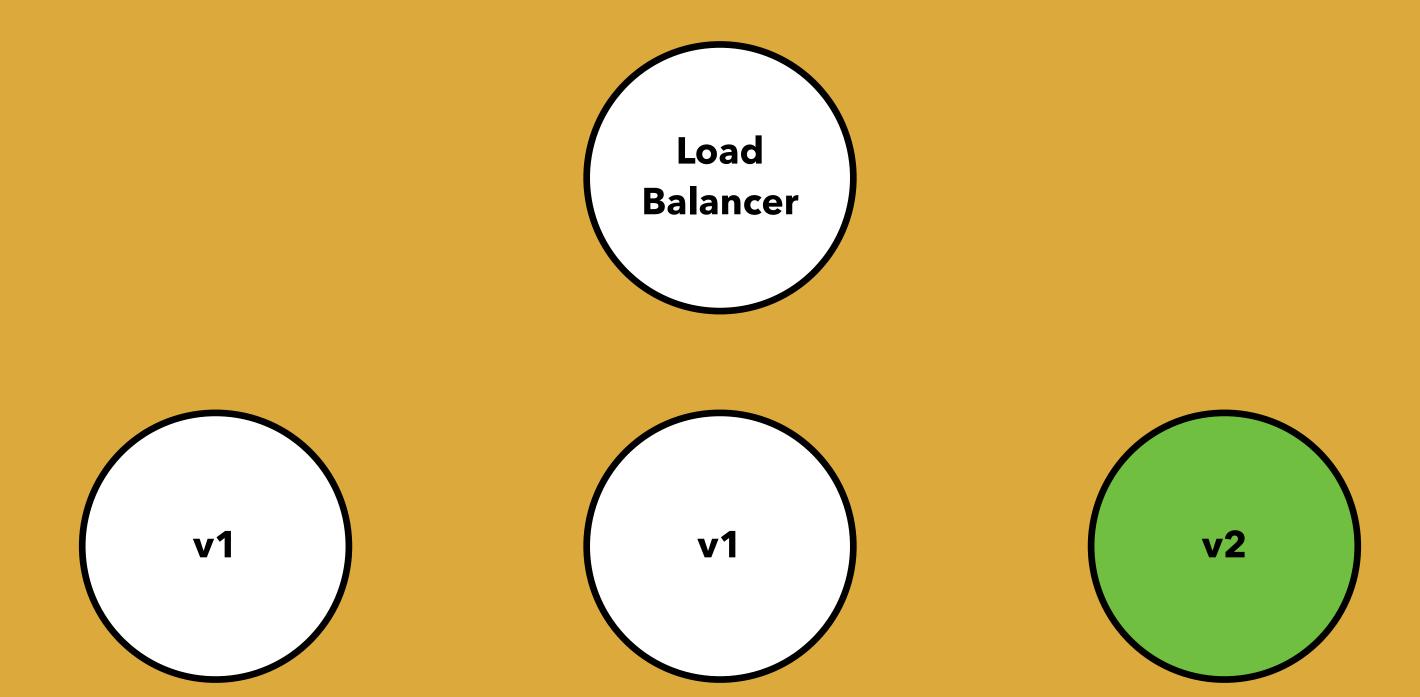
#### Gold Master Testing

```
// Write to v1 and v2, read from v1.
stats.Time("myservice.operation.v1", func() {
 operation.VersionOne()
stats.Time("myservice.operation.v2", func() {
 operation.VersionTwo()
```

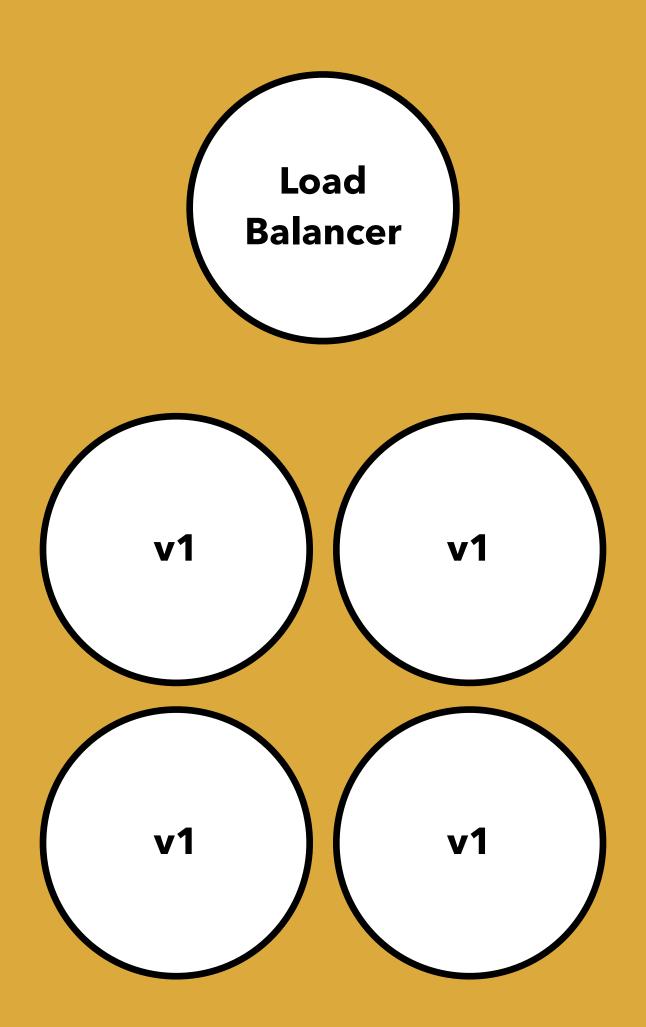
## Canary



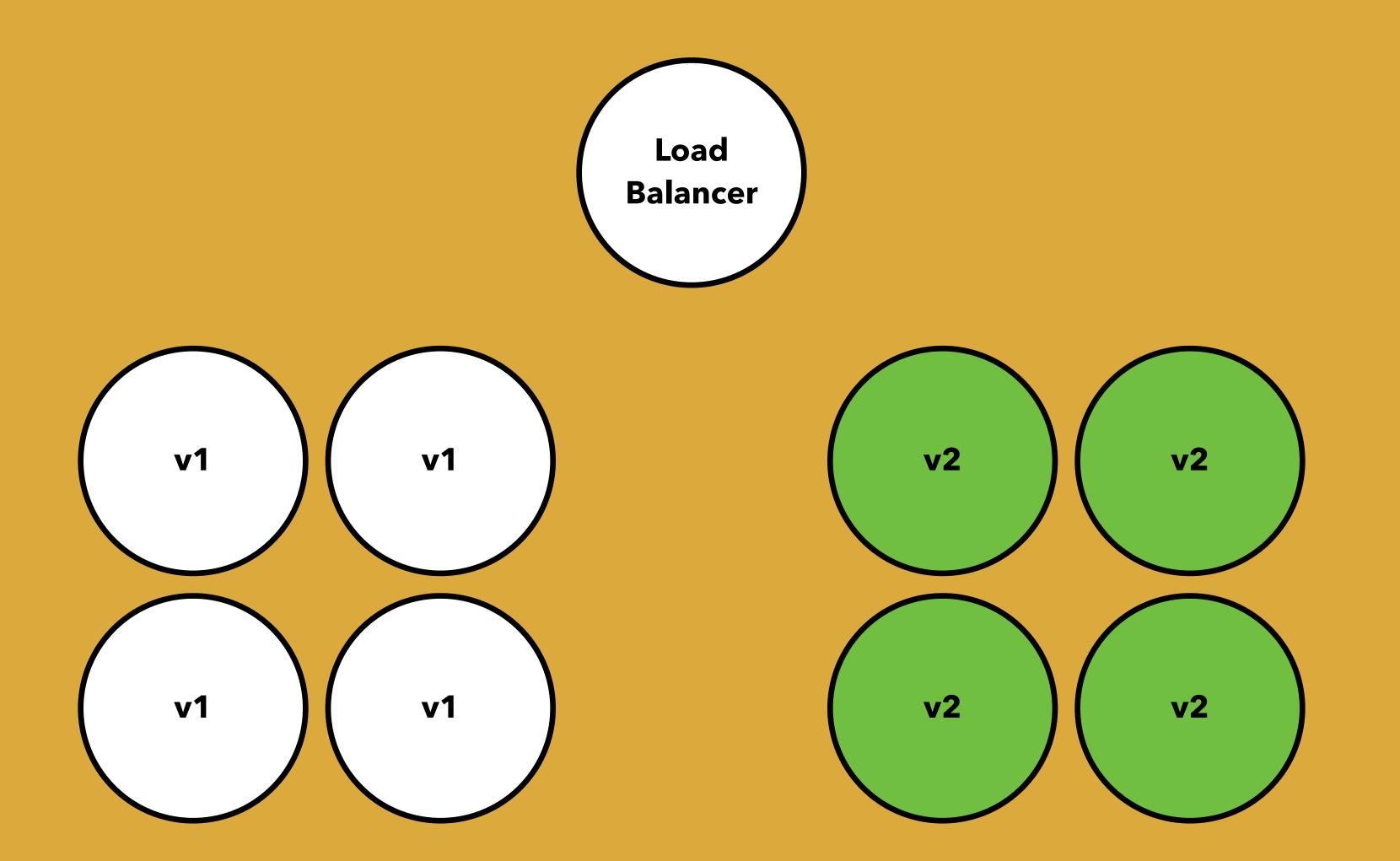
## Canary



### Blue-Green Deployments



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#### No Free Lunch

Automated deployment pipeline.

Centralized logging and metrics.

Discoverable infrastructure.

#### Happy Accidents

Everything is automated.

Experimentation is built-in.

Disaster recovery is built-in.

# YETANOTHER ENWENT

#### Questions?