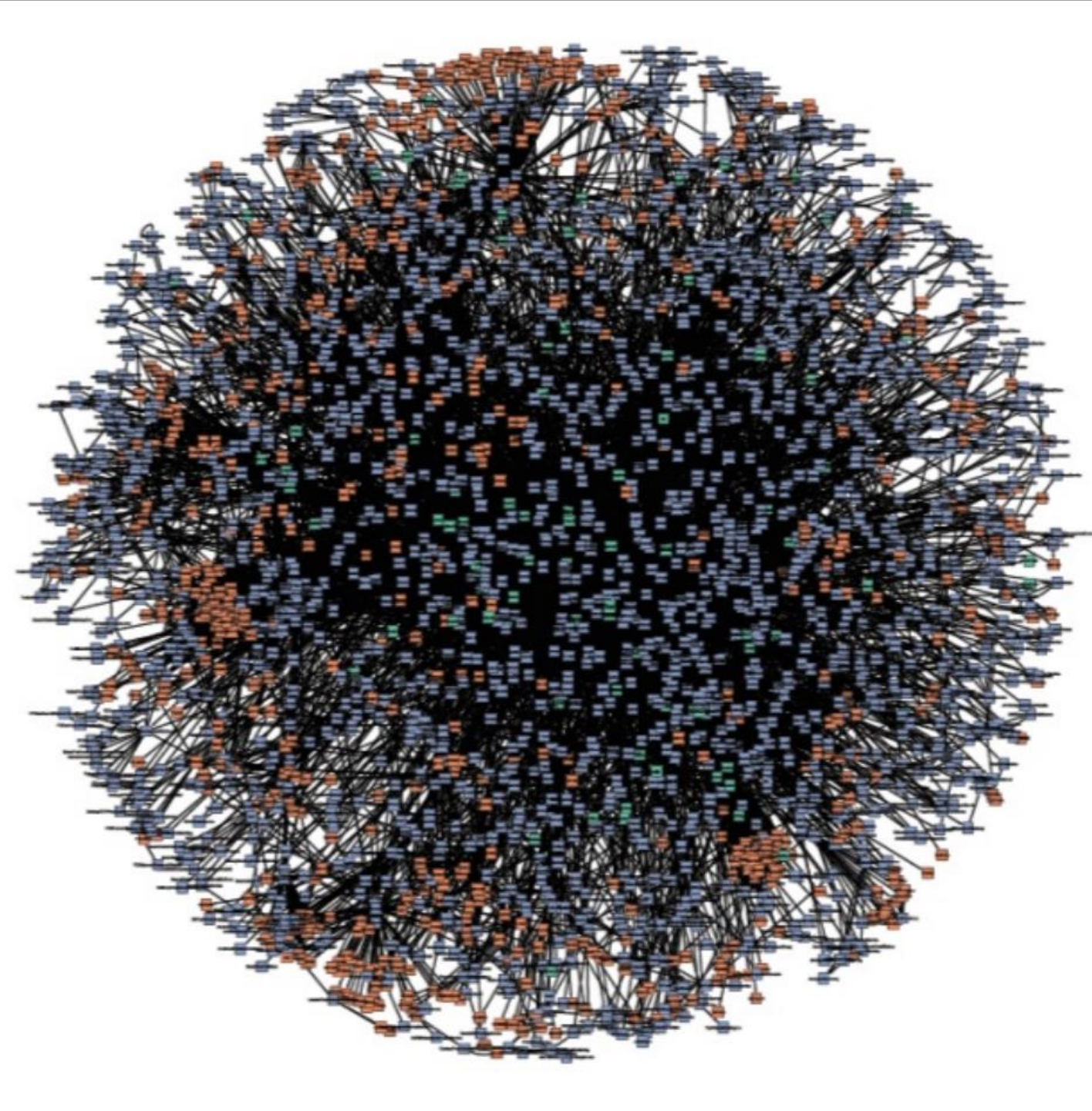




AWS CodeDeploy

Prelude



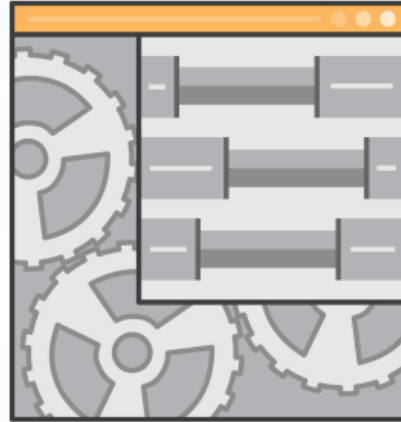


- Service-Oriented Architecture (SOA)
- Everything gets a service interface
- Primitives
- “Microservices”

Why use a deployment service?



Automate
deployments



Manage
complexity



Avoid
downtime

AWS CodeDeploy

Coordinate automated deployments, just like Amazon

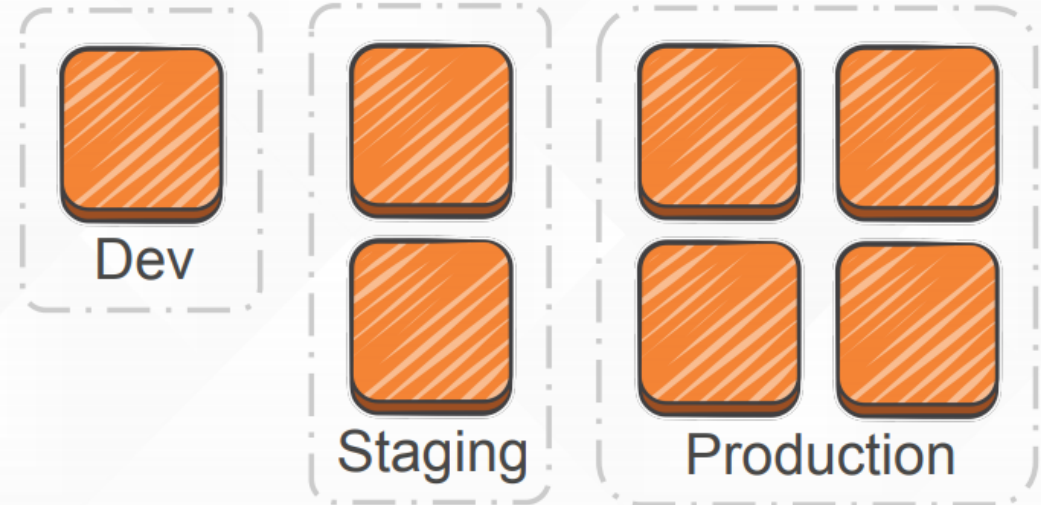
Application
Revisions



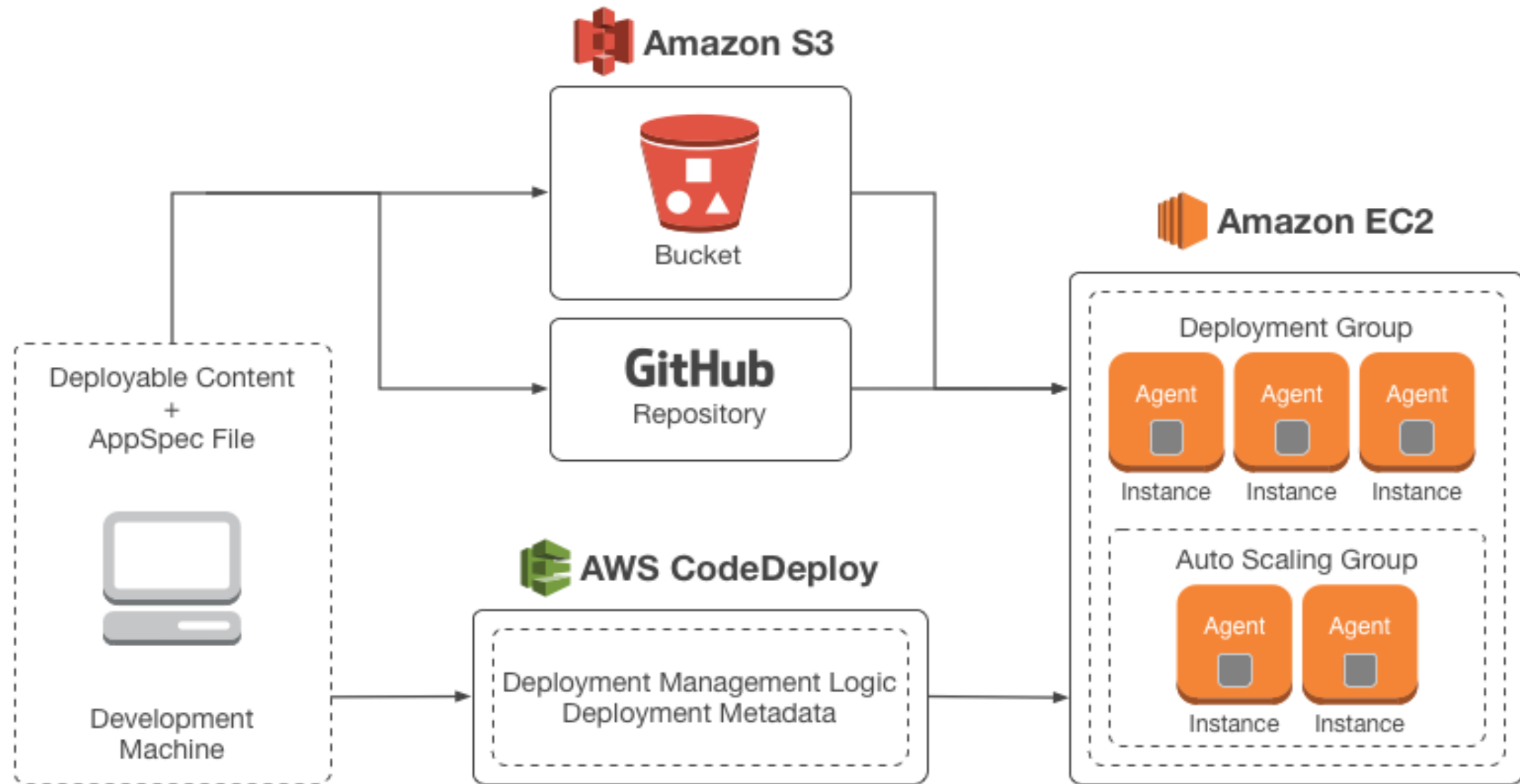
v1, v2, v3



Deployment Groups



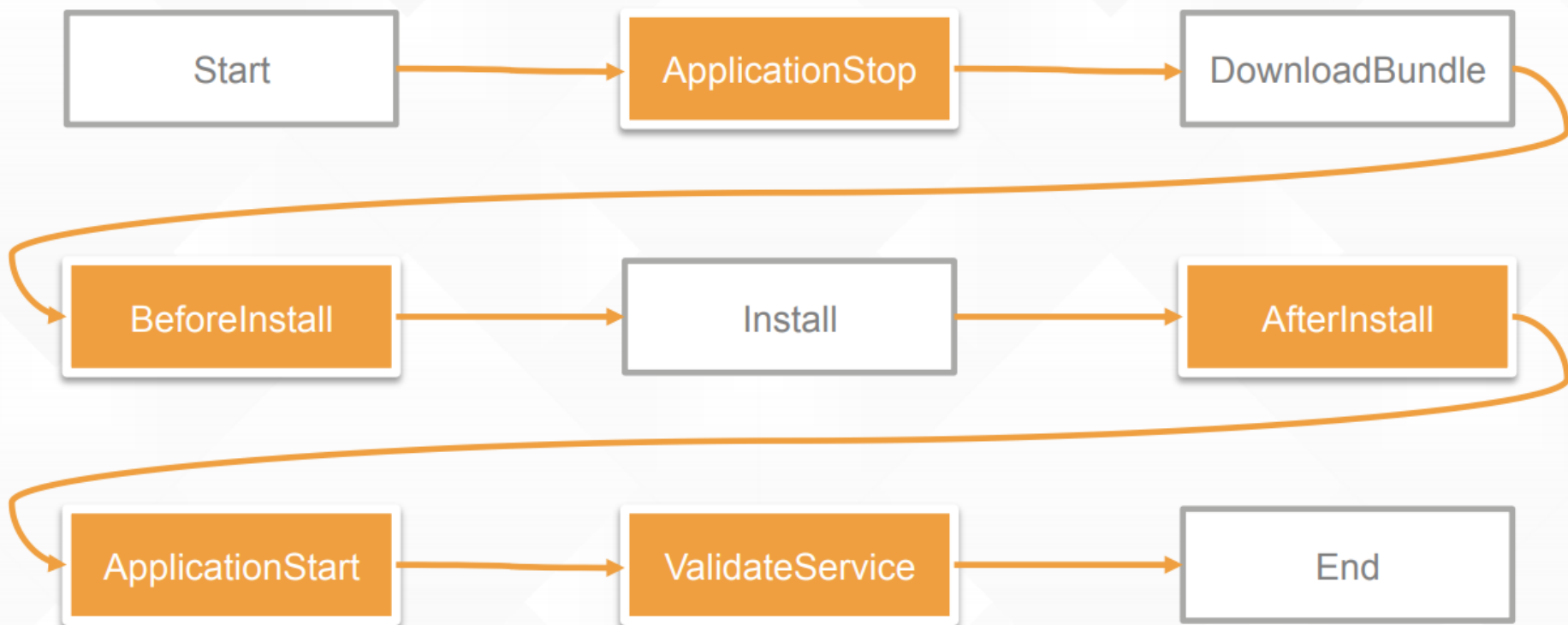
- Scale from 1 instance to thousands
- Deploy without downtime
- Centralize deployment control and monitoring
- On-Premises support



1) Package your application (with an AppSpec)

```
version: 0.0
os: linux
files:
  - source: chef/
    destination: /etc/chef/codedeploy
  - source: target/hello.war
    destination: /var/lib/tomcat6/webapps
hooks:
  ApplicationStop:
    - location: deploy_hooks/stop-tomcat.sh
  BeforeInstall:
    - location: deploy_hooks/install-chef.sh
  AfterInstall:
    - location: deploy_hooks/knife-install.sh
  ApplicationStart:
    - location: deploy_hooks/chef-solo.sh
  ValidateService:
    - location: deploy_hooks/verify_service.sh
```

1) Package your application (with an AppSpec)



2) Set up your target environments



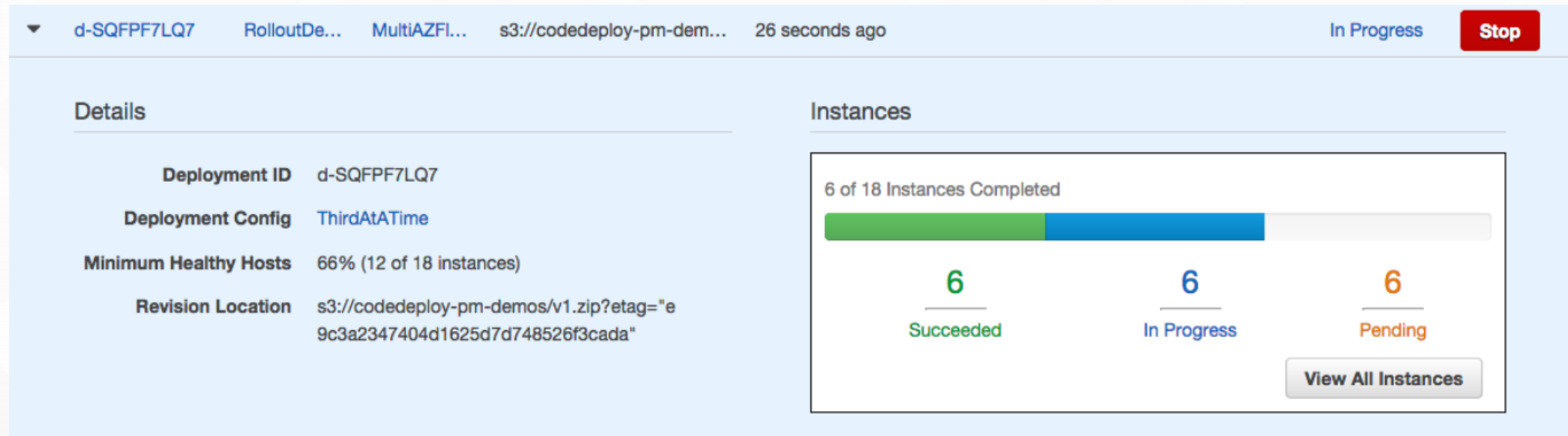
Group instances by:

- Auto Scaling group
- EC2 tag
- On-premises tag

3) Deploy!

AWS CLI & SDKs
AWS Console
CI / CD Partners
GitHub

```
aws deploy create-deployment \
  --application-name MyApp \
  --deployment-group-name TargetGroup \
  --s3-location bucket=MyBucket,key=MyApp.zip
```





Demo

Deployment Config – Choose speed

One-at-a-Time



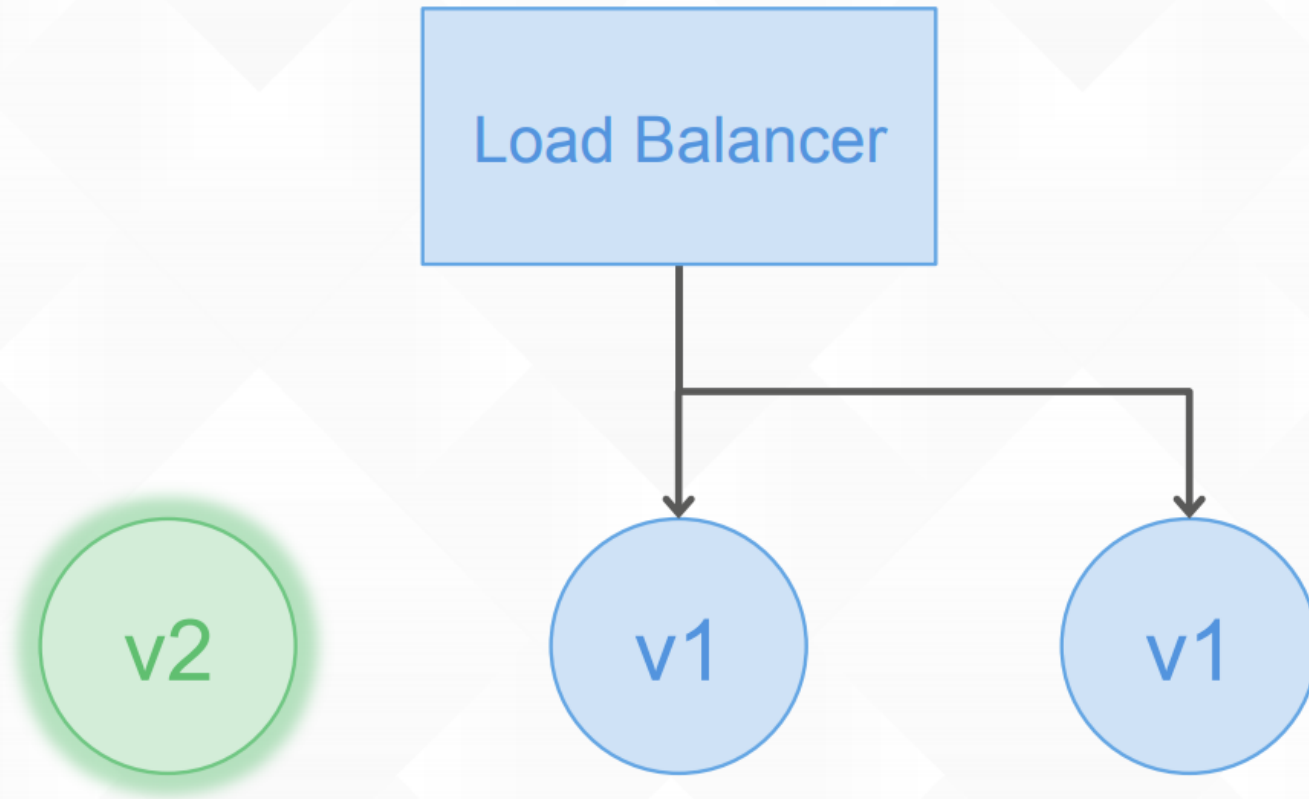
Half-at-a-Time



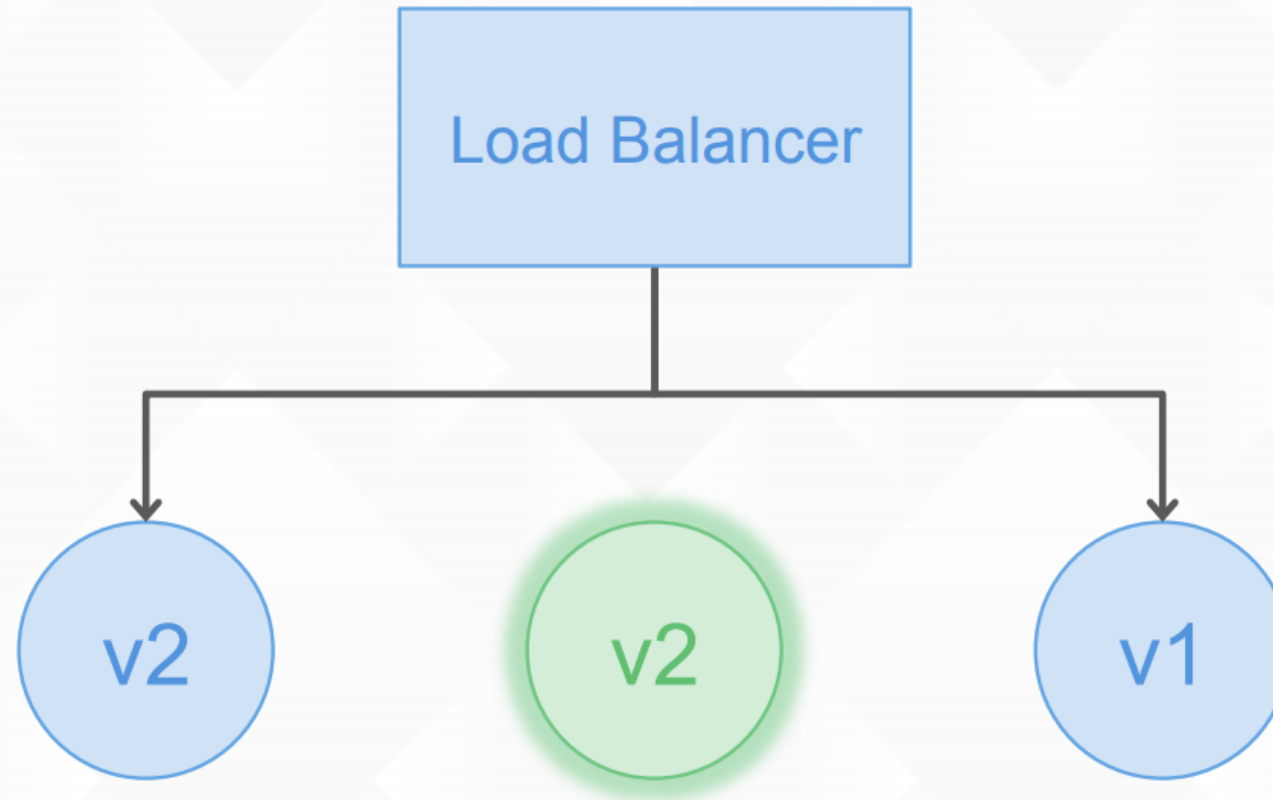
All-at-Once



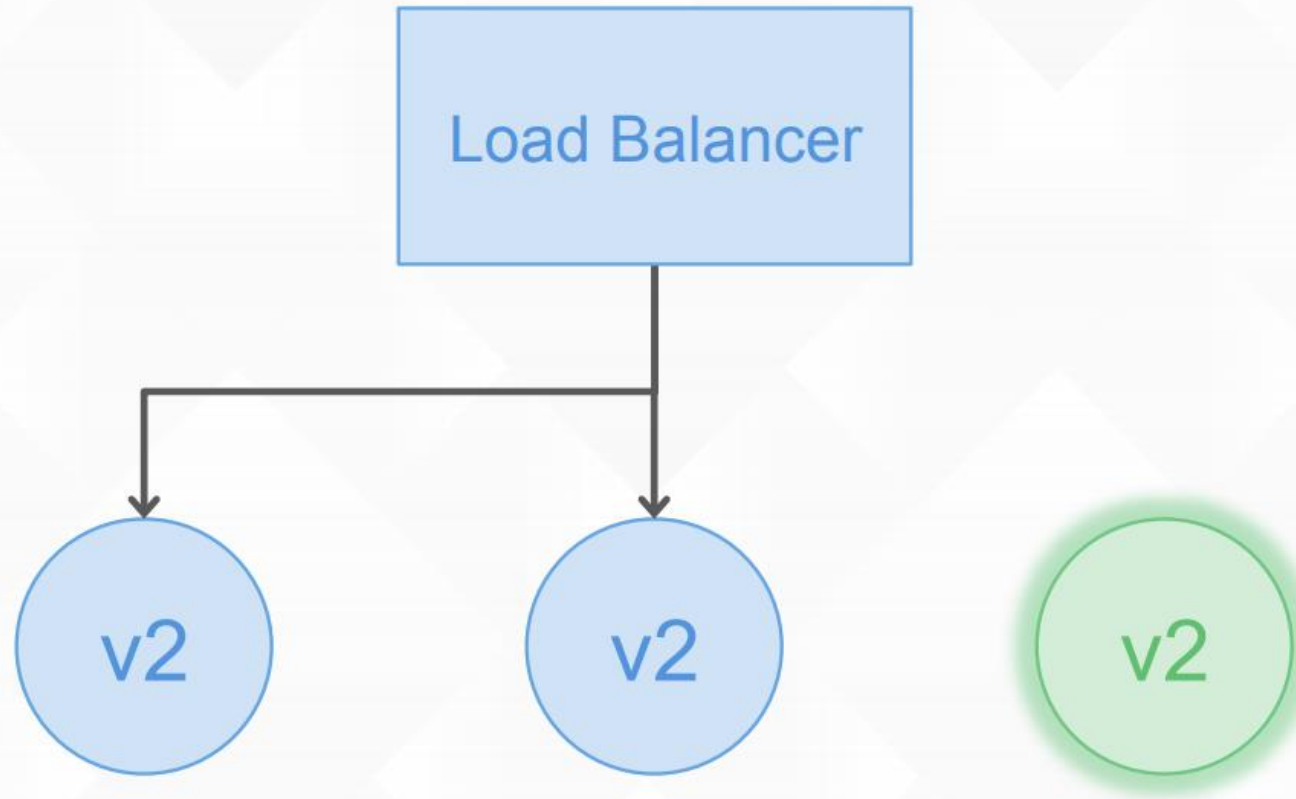
Rolling Update – Deploy without downtime



Rolling Update – Deploy without downtime



Rolling Update – Deploy without downtime



Thank You