

Elastic BeanStalk

Today's Agenda

- Intro about Elastic BeanStalk
- Deployment Types
- Demo

Elastic BeanStalk

- PAAS
- User provided Code & EB handles the environment
- Low infrastructure overhead
- Fully Customisable - Doesn't come entirely Free
- Built in Languages and Docker

EB Deployment Architecture

An Elastic Beanstalk **application** is a **collection of things** relating to an **application** - a **container / folder**

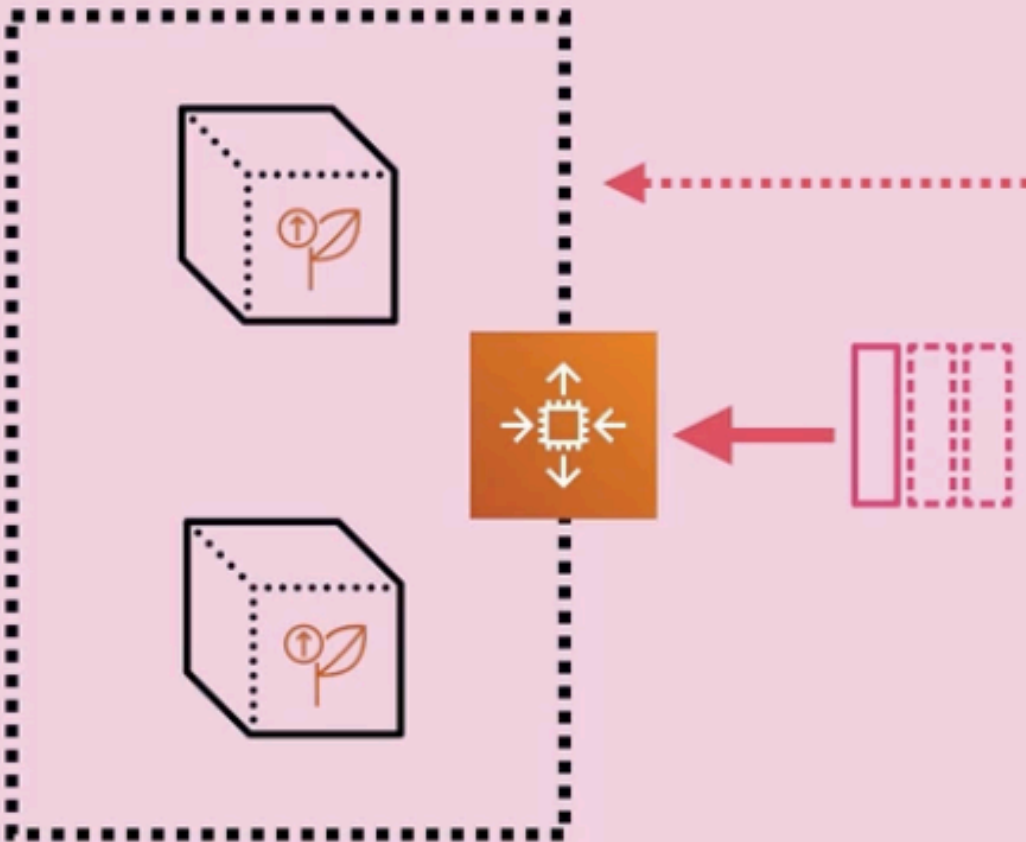


Application Versions are a **specific labeled version of deployable code** for an **application**. The source bundle is stored on S3

Elastic Beanstalk **Application**

Web and Worker tiers communicate via SQS Queues. Worker tiers scale based on queue messages

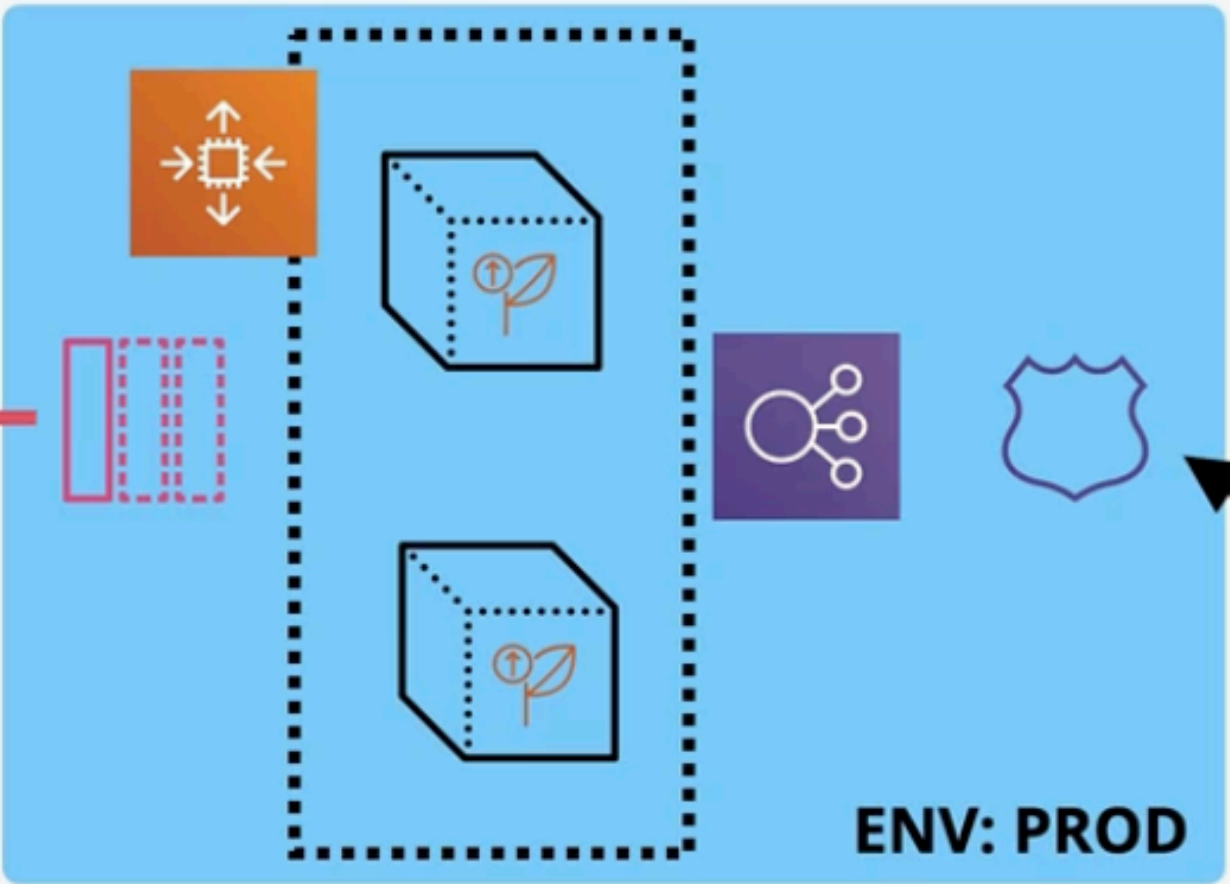
App Versions can be deployed to **environments**



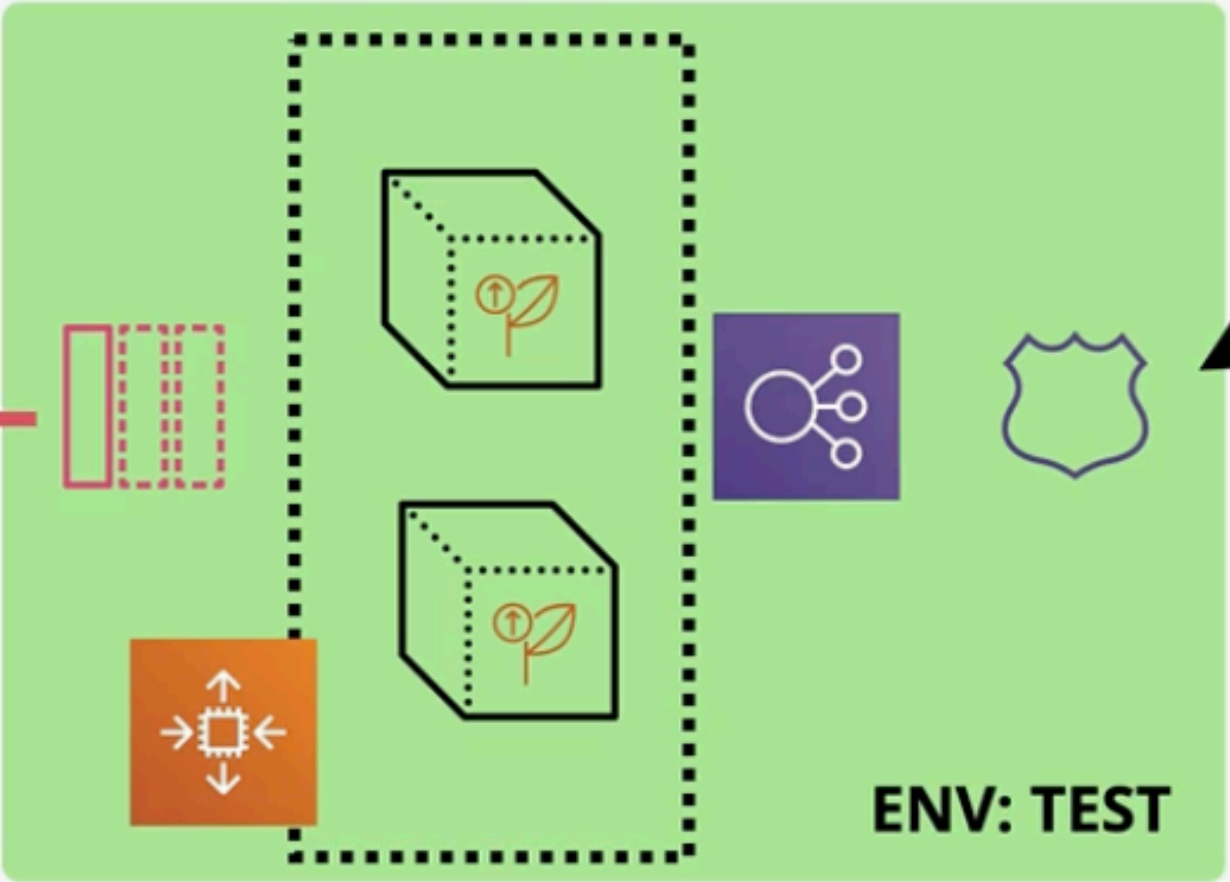
ENV: PROCESSING

Environments are **containers of infrastructure and configuration** for a specific **application version**

Each **environment** is either a **web server tier** or a **worker tier**. This controls the **structure & function of the environment**

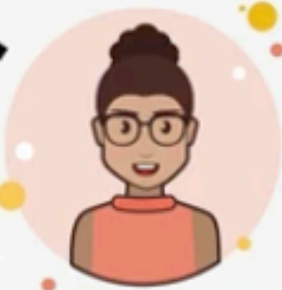


ENV: PROD

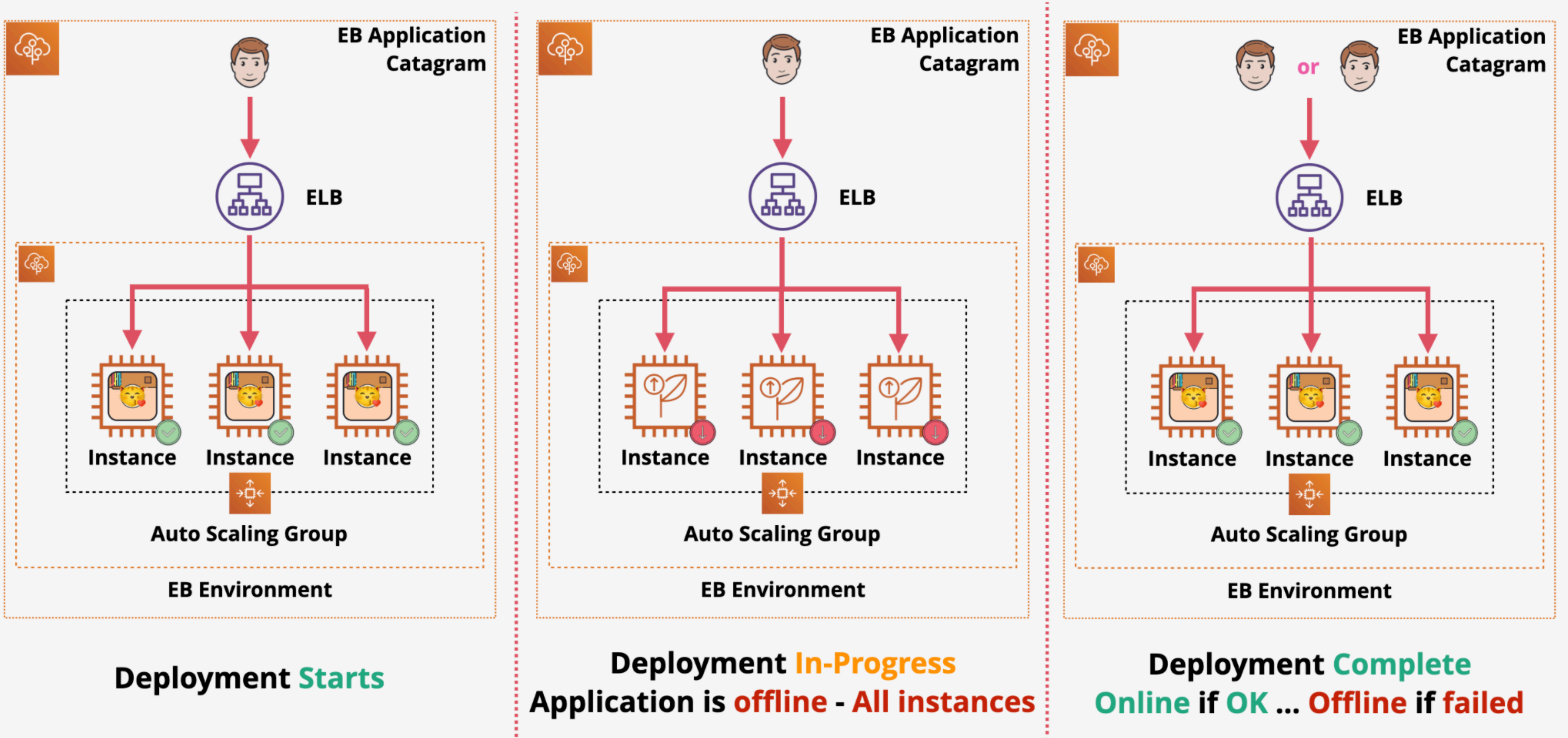


ENV: TEST

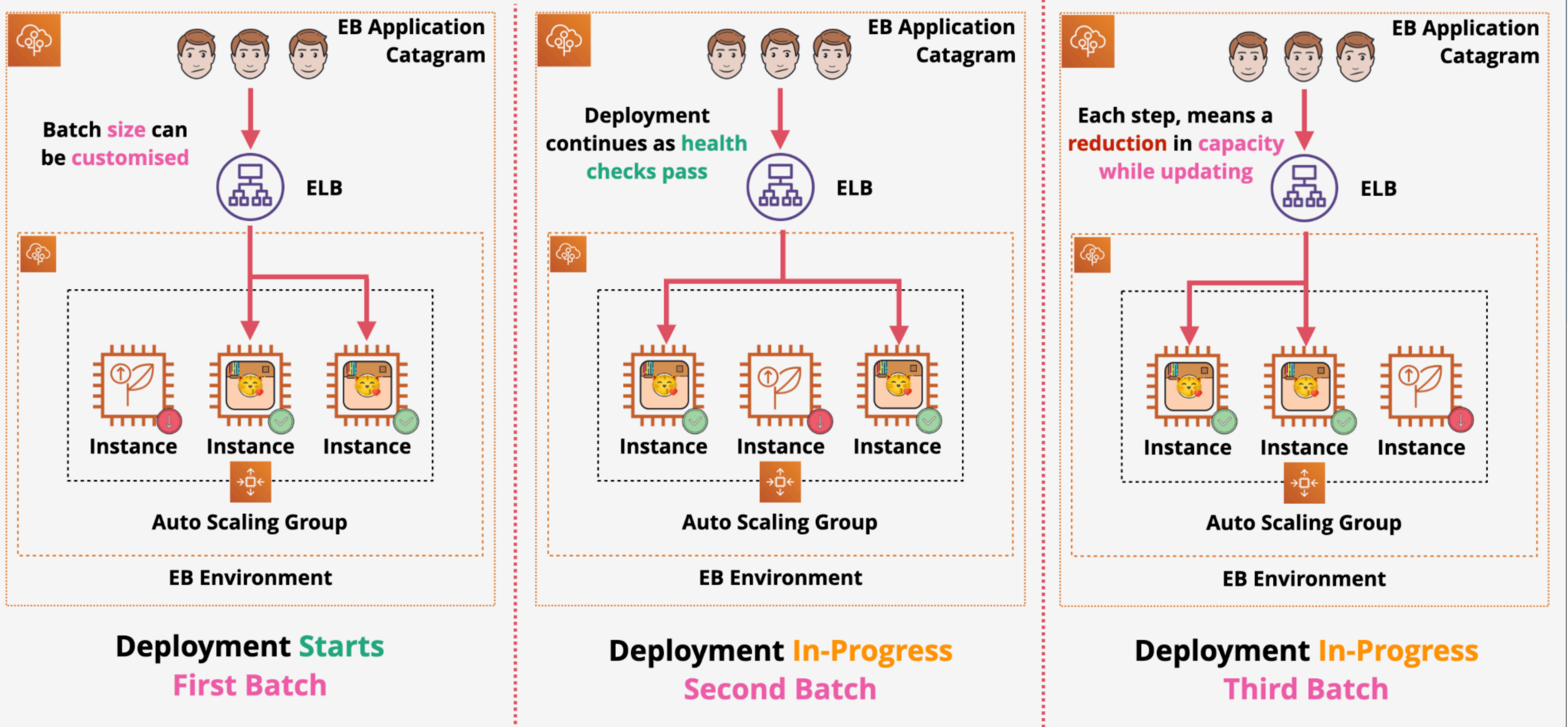
Each **Environment** has its own **CNAME** - a **CNAME SWAP** can exchange two environment DNS



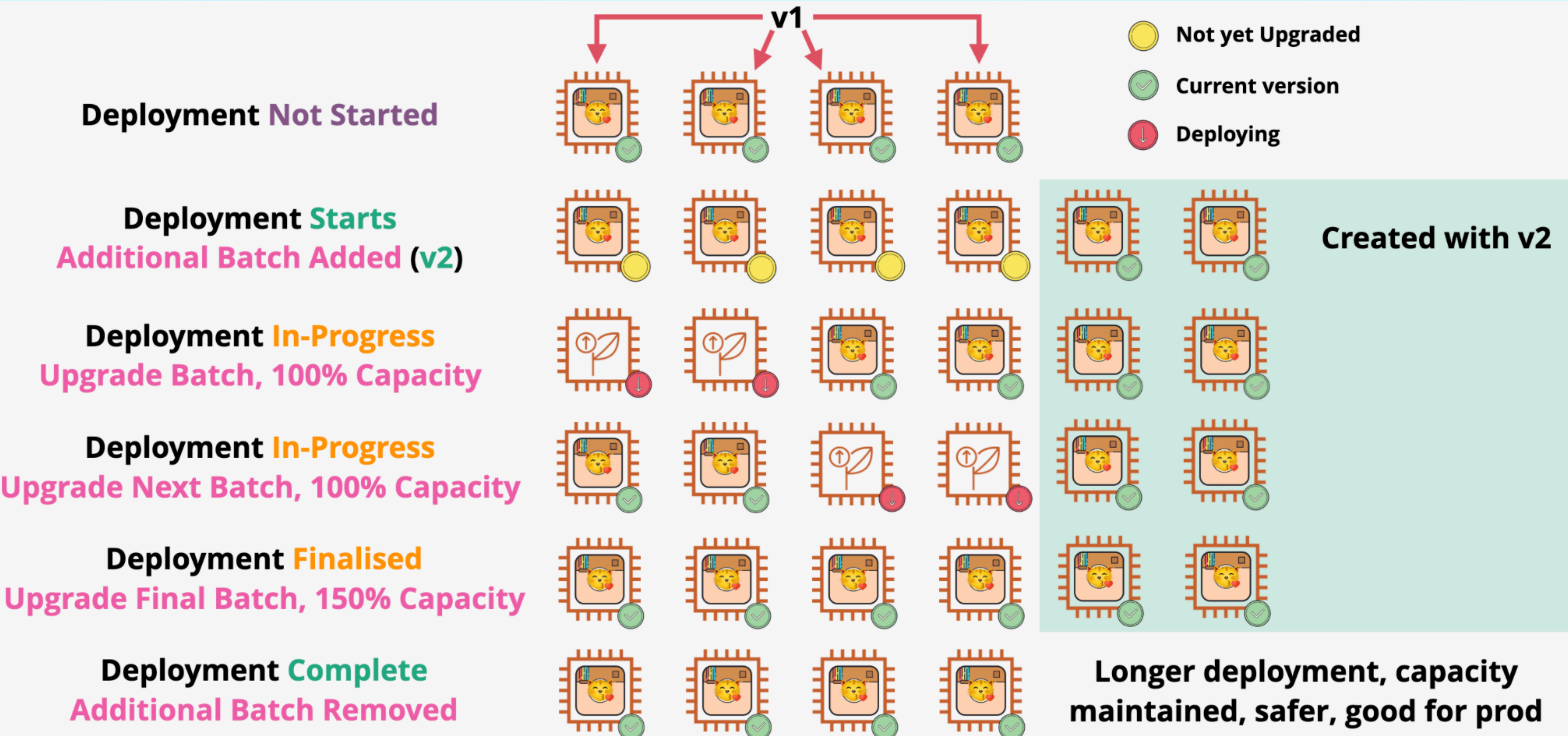
EB Deployment Type - All at once



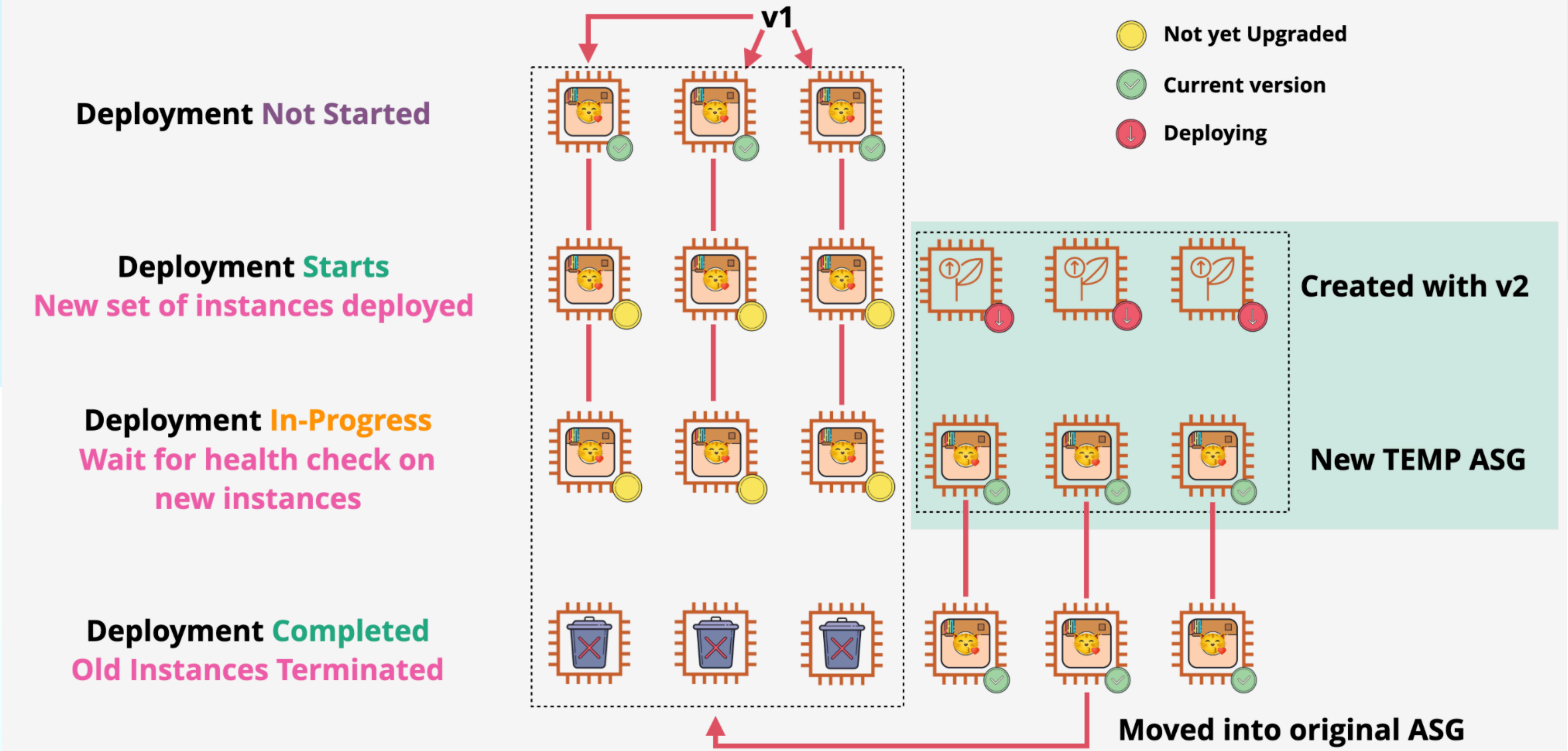
EB Deployment Type - Rolling



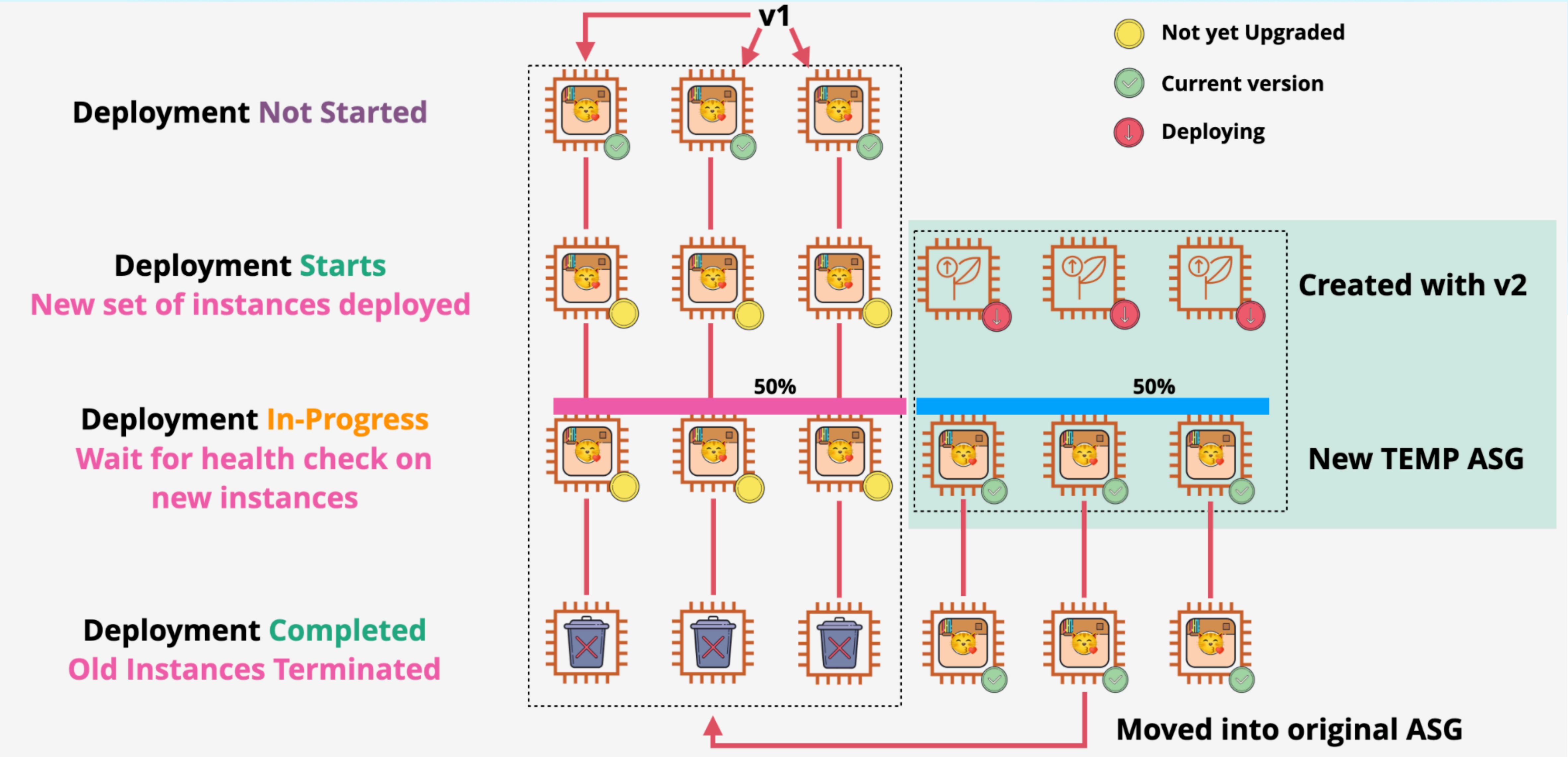
EB Deployment Type - Rolling with Batch



EB Deployment Type - Immutable



EB Deployment Type - Traffic Splitting



QUIZ TIME

Q & A