



Webinar: Jump-start to CloudFoundry Part 3: Update your app without outage

December 3rd 2015

Updating an Application



How do I update my app
without an outage?

There has to be a way...



Without
Zero-downtime
deployment

- Developers are required to take their application offline and then deploy a second version.
- They could possibly deploy a second version with different routes and switch them, but that is a lot of extra work.

With
Zero-downtime
deployment

- Developers are able to update their application seamlessly and letting the service do the hard work.
- Have additional flexibility with testing in production environment and size-by-side comparisons
- Fast rollback options

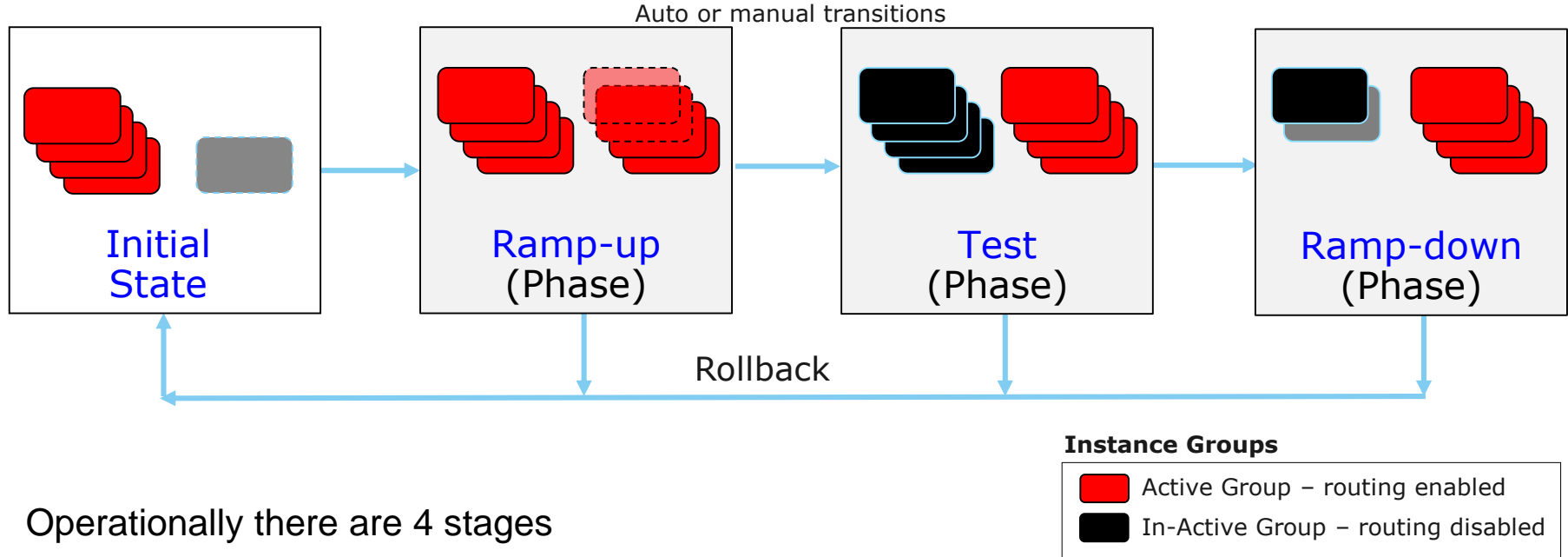
Cloud developers expect simple update capabilities that do not impact uptime or customer usage.

Solution: [Active Deploy on Bluemix](#)





How It Works



Operationally there are 4 stages

1. The initial stage is the existing running application
2. **Ramp-up phase** - where the new version is being deployed based on configuration settings – this can be automatic or manual, and take any length of configured time. It's where parallel version comparison testing can take place
3. **Test phase** - is where the original version has been unrouted from accepting traffic, but the instances are still running - and the new version is now fully running. Extended production testing can now take place. And this also allow immediate rollback if needed.
4. **Ramp-down phase** - phase where the original version is deleted, and the new version continues live.





Active Deploy

A service designed to manage the rollout of changes in an automated and controlled fashion, with zero-downtime, allowing multiple versions of an application to be live at one time for extended testing purposes.

Currently in Beta - It works on Cloud Foundry Apps (Bluemix Containers and VMs coming soon).

Downtime to upgrade critical cloud applications is no longer a problem.





Major Functions

- Update running production applications with no downtime
- Automatic or manual control
- OOTB defaults
- Fully configurable
- User-controlled deploy phase progression
- Fast roll back
- CLI interface for scripting and embedded interaction
- Graphical interface for easy operation (coming soon)

