Crafting a robust deployment pipeline in finance

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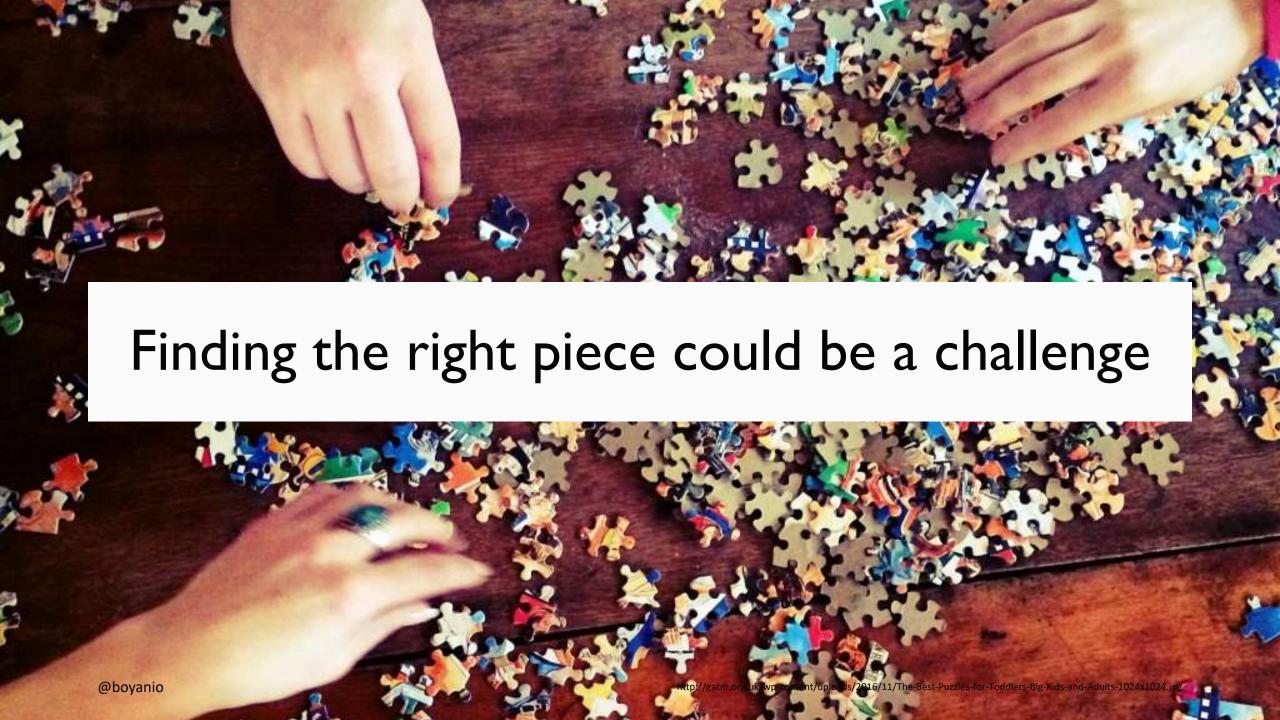
Establish in-house development at a pension fund



Regulations & compliance

No errors allowed

Meetings, meetings, meetings

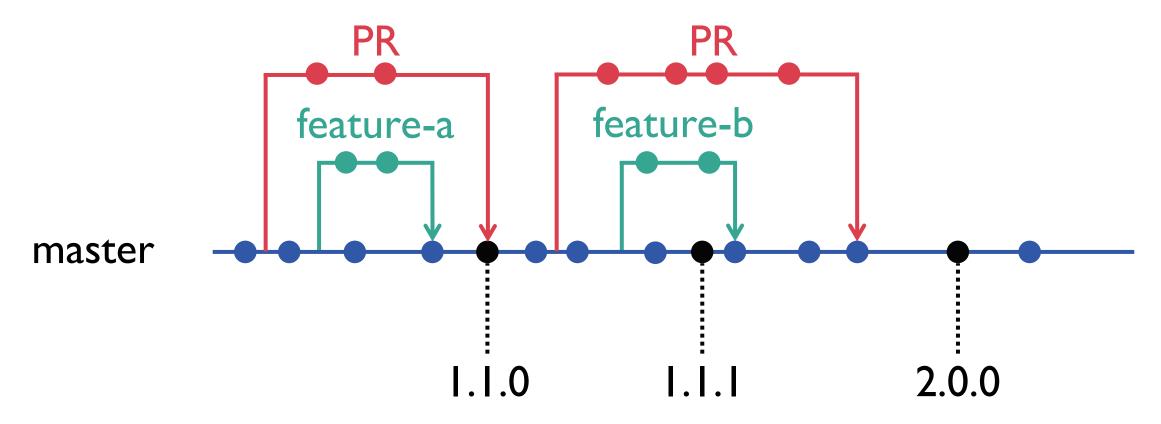


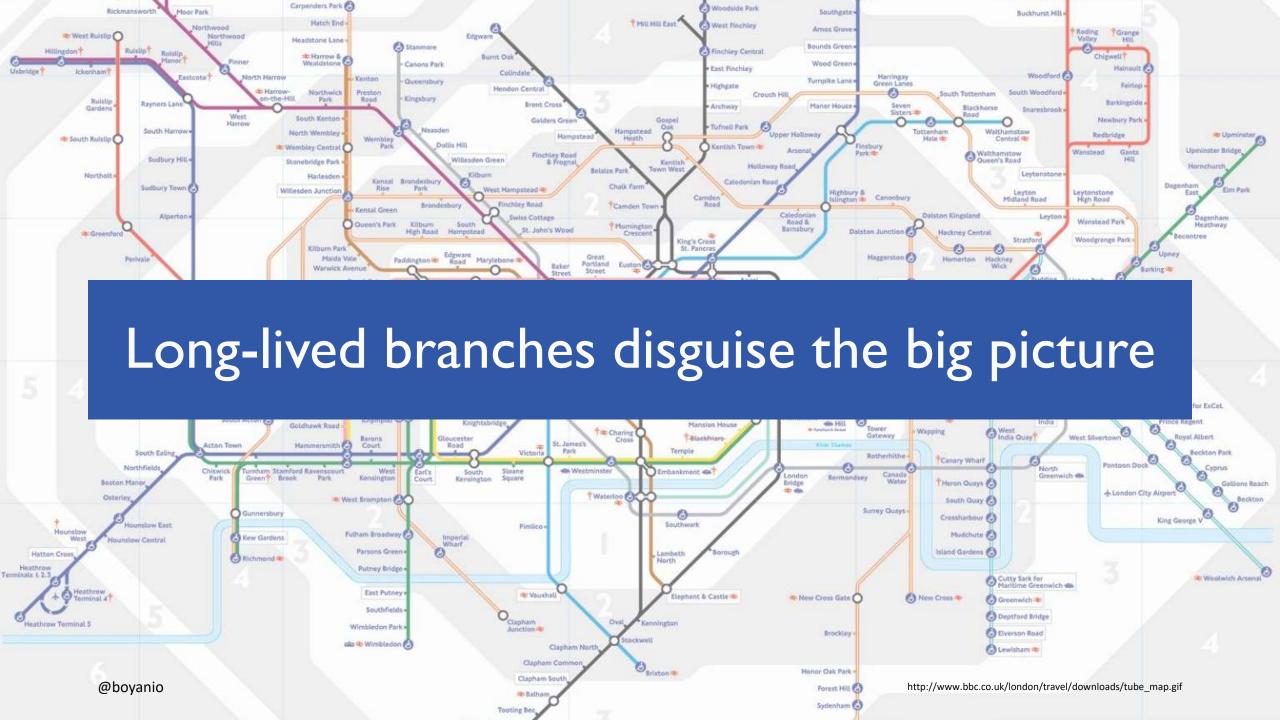
How does one create a deployment pipeline from the scratch?

Goal: delivering value to our members on a frequent basis

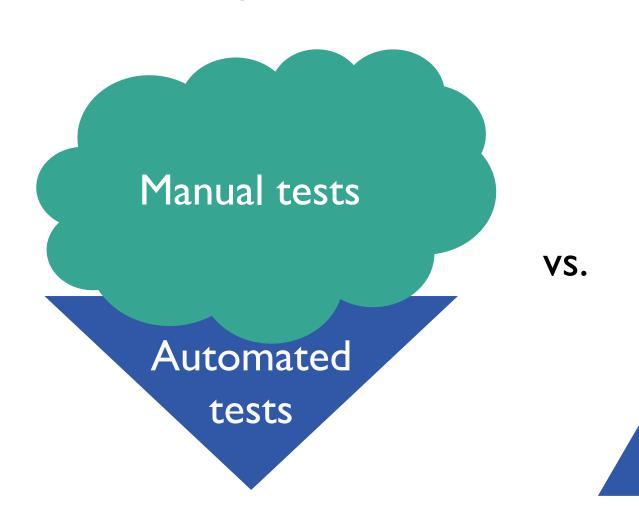


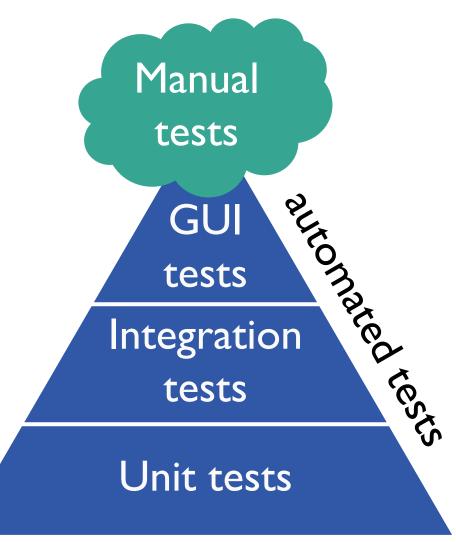
Trunk-based development





Building trust







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References Mailings Review View Help ${\mathcal P}$ Tell me what you want to d

Steps to perform:

- 1. Go to the homepage
- 2. Log in as a member
- 3. Go to the retirement page
- 4. Go through the online retirement process
- 5. Sign your choices

Confirm:

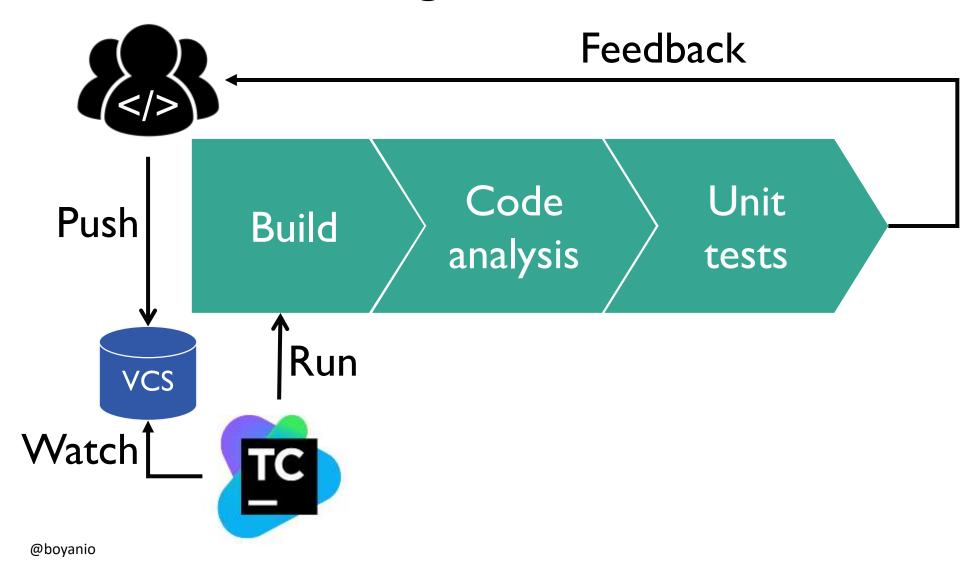
- you got a confirmation e-mail
- there is a summary document in the archive
- there is a update request in the core system



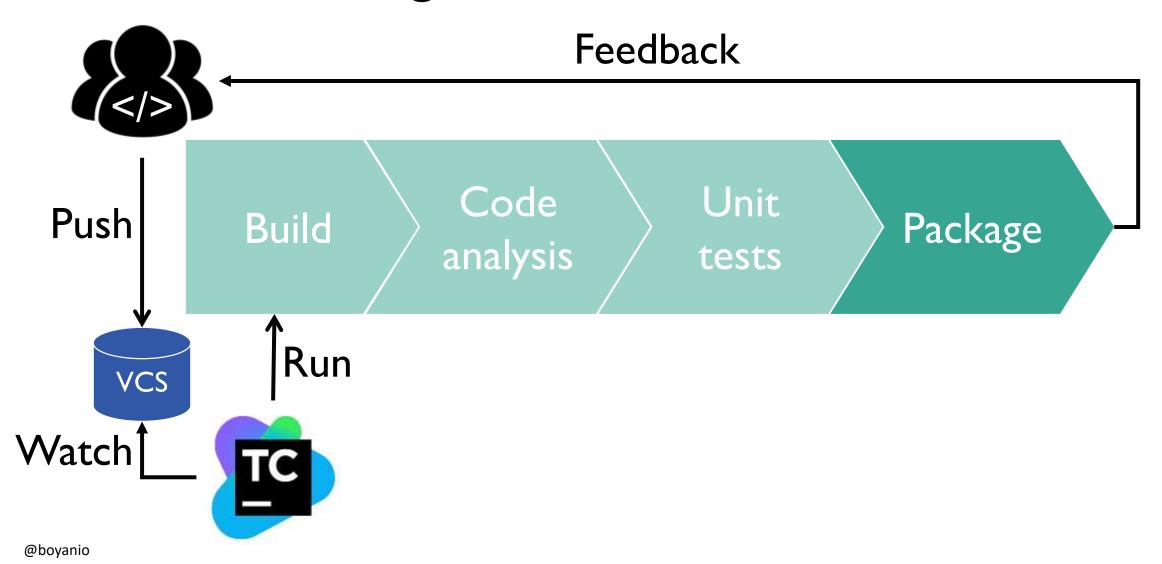


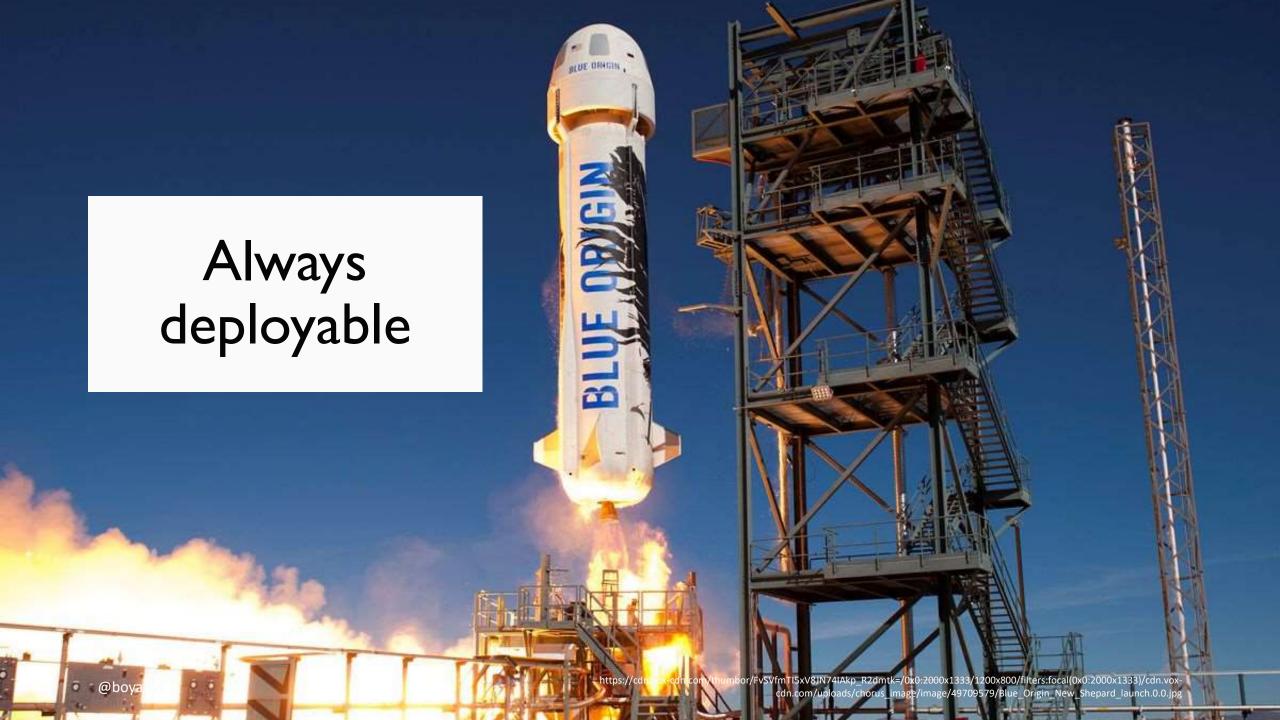


Continuous Integration

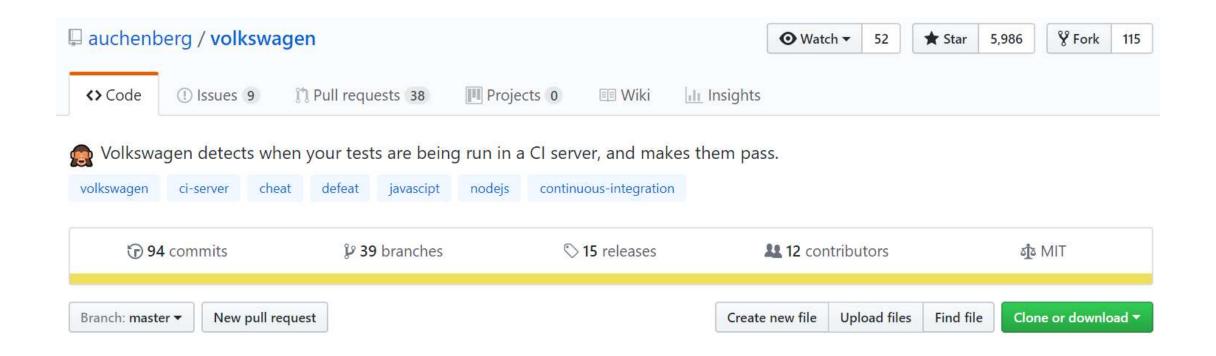


Continuous Integration





Building a development team means building a development culture





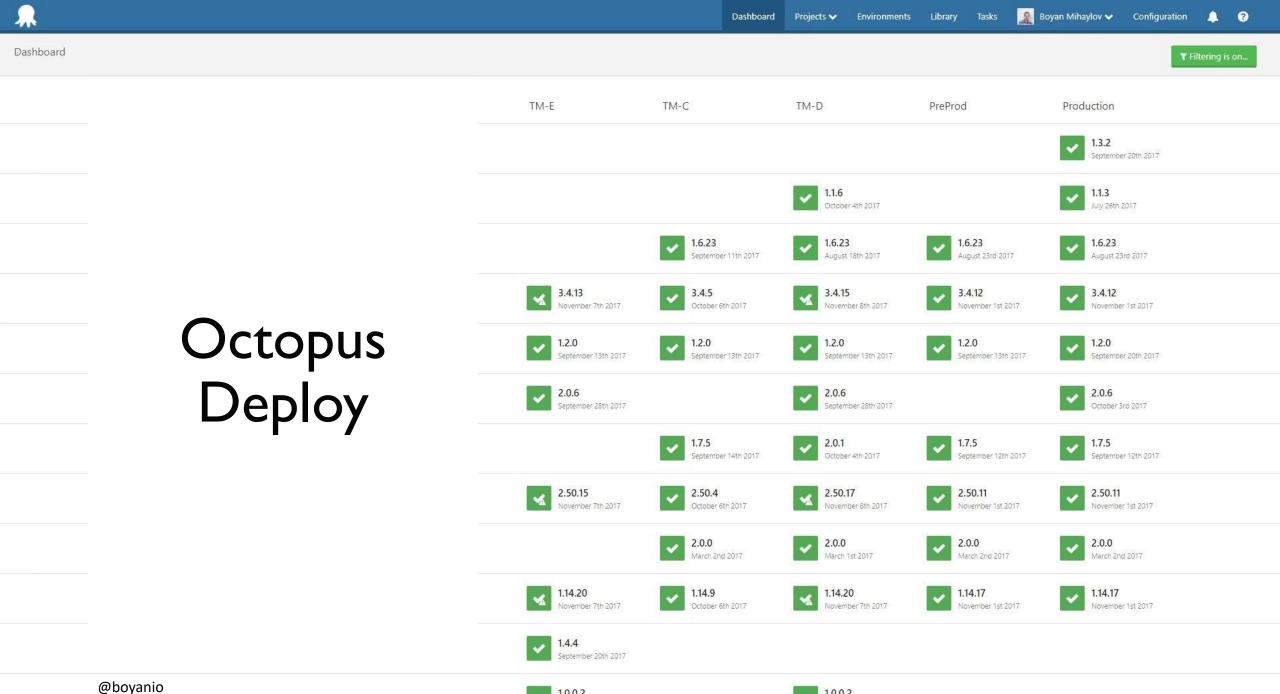
Name	Date modified	Туре	Size
bin_old	12-Nov-13 13:03	File folder	
bin	20-Dec-14 14:10	File folder	
UI	12-Nov-13 13:03	File folder	
Global.asax	12-Nov-13 13:03	ASP.NET Server A	1 KB
ReadMe-before-updates.txt	20-Dec-13 15:24	TXT File	11 KB
ReadMe-remember-to-enable-log.txt	02-Jan-14 13:10	TXT File	11 KB
■ Web.config	23-Jan-14 09:15	XML Configuratio	6 KB
Web-before-log.config	02-Jan-14 11:45	XML Configuratio	6 KB
Web-no-http.config	20-Dec-13 14:12	XML Configuratio	6 KB
Web-old - Copy.config	17-Nov-13 14:11	XML Configuratio	6 KB
■ Web-old.config	12-Nov-13 13:03	XML Configuratio	6 KB

Automated deployment to any environment



Identical environment set-up

Build once, deploy everywhere



pro•duc•tion [pruh-duhk-shuhn] (n)

I. This complex system of application code, distributed services, servers, networking gear, etc., upon which we are going to try to carefully apply a complicated set of changes and hope that nothing goes wrong. Cross your finders...here goes.

Production deployment

Automated Unit Deploy to Test Build integration & (by press of a button) tests GUI tests Manual Post-Deploy to deployment acceptance Production (by press of a button) tests tests

Q: Shall we move to Continuous Deployment?

A: We can, but we don't have to

How often shall we deploy to Production?



When you fear something, you should do it often enough. Then it becomes trivial.

Days between deploying to Production



Release

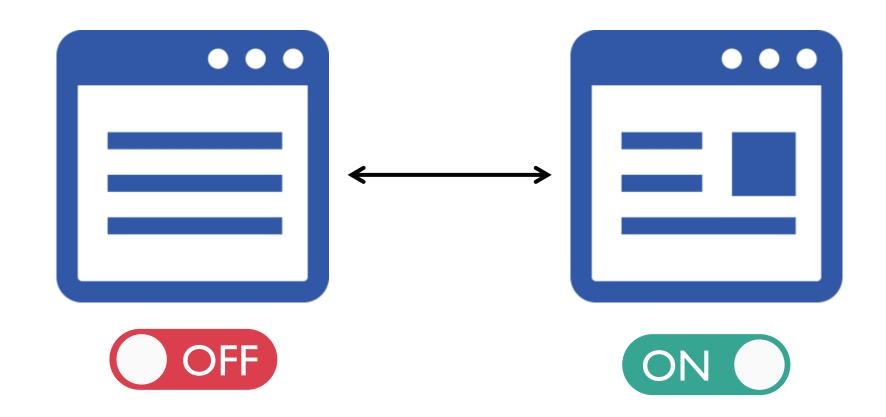
The act of making single or multiple features available to a wider audience

Deploy

The act of installing and configuring a software package onto a target system

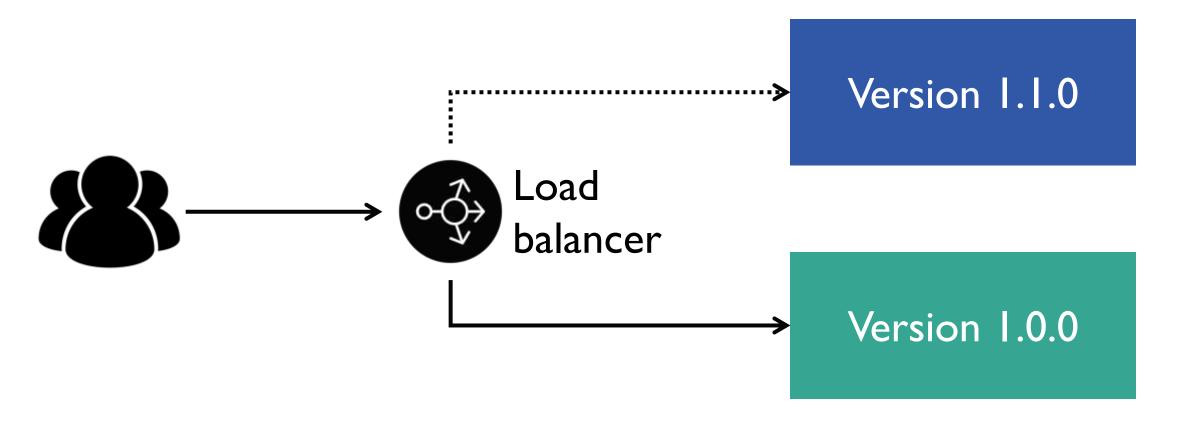
Feature toggles

let you deploy often without releasing immediately

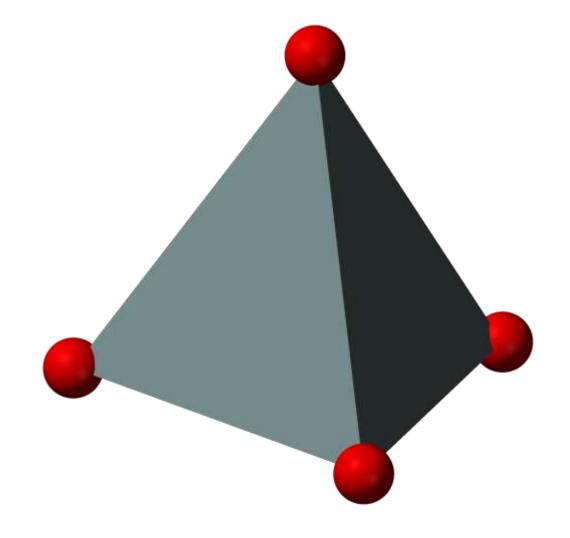


Zero downtime deployment

using blue-green deployment approach



How robust is the deployment pipeline?





The deployment pipeline supports the established agile practices and desired goals



Deployment pipeline needs constant reevaluation and adjustment to increase your confidence in the value delivery

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