Updating CI Tests and Integrating Static Code Analysis

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Agenda

CI refresher

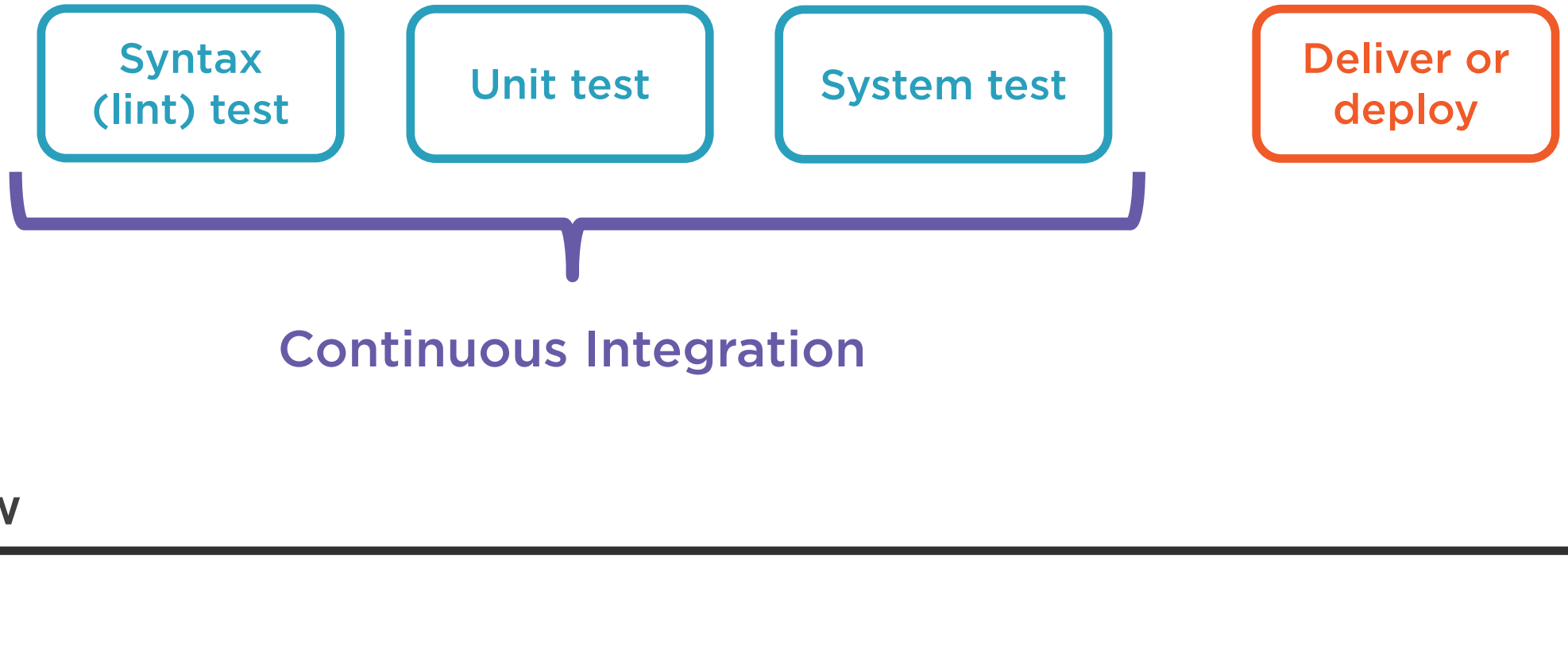
The Twelve-factor app

Updating CI tests

- Unit tests
- System Tests

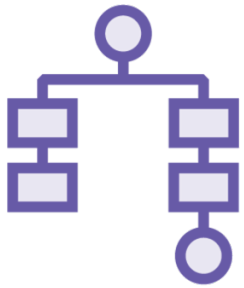
Integrating static code analysis

Continuous Integration (CI) Refresher



The Twelve-factor App: Tenets 1-6

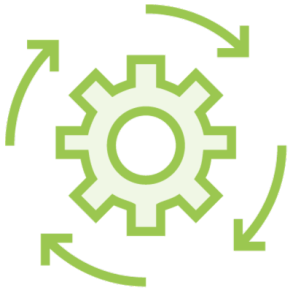
Codebase



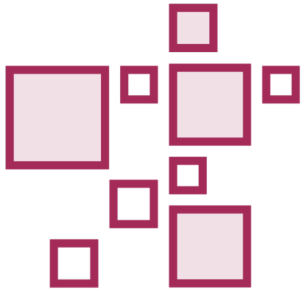
Dependencies

Config

Backing Services



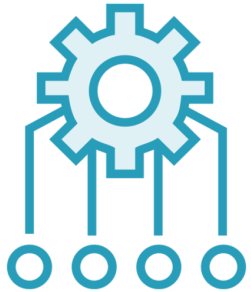
Build, release, run



Processes

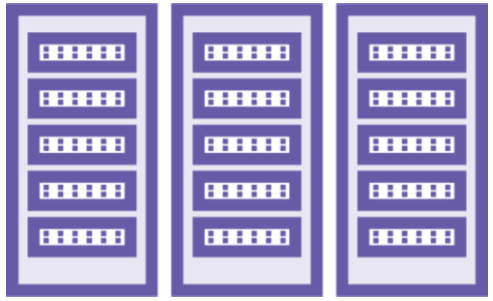
The Twelve-factor App: Tenets 7-12

Port binding



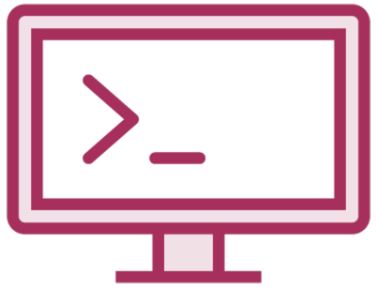
Concurrency

Disposability



Dev/prod parity

Logs

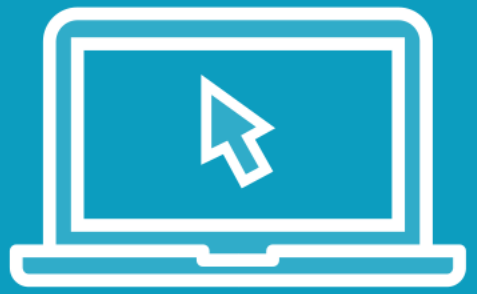


Admin processes

CRM App Twelve-factor Scorecard

Compliant	Not compliant
Codebase	Config
Dependencies	Build, release, run
Backing services	Processes
Port binding	Concurrency
Disposability	Dev/prod parity
Logs	
Admin processes	

Demo

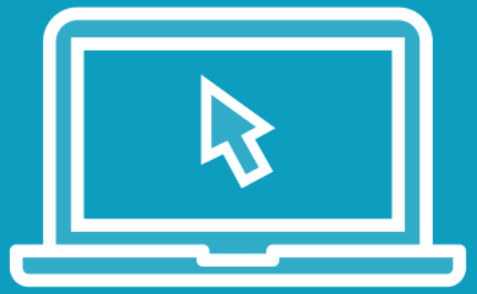


Updating the CRM unit tests using sqlite

Demo

Updating the CRM app system tests

Demo



Static code analysis with "bandit"

Summary

Always consider the 12 factors

- https://12factor.net/

Update your tests along with your app

- Or before! (TDD)

Consider integrating static code analysis