Continuous Deployment Pipeline

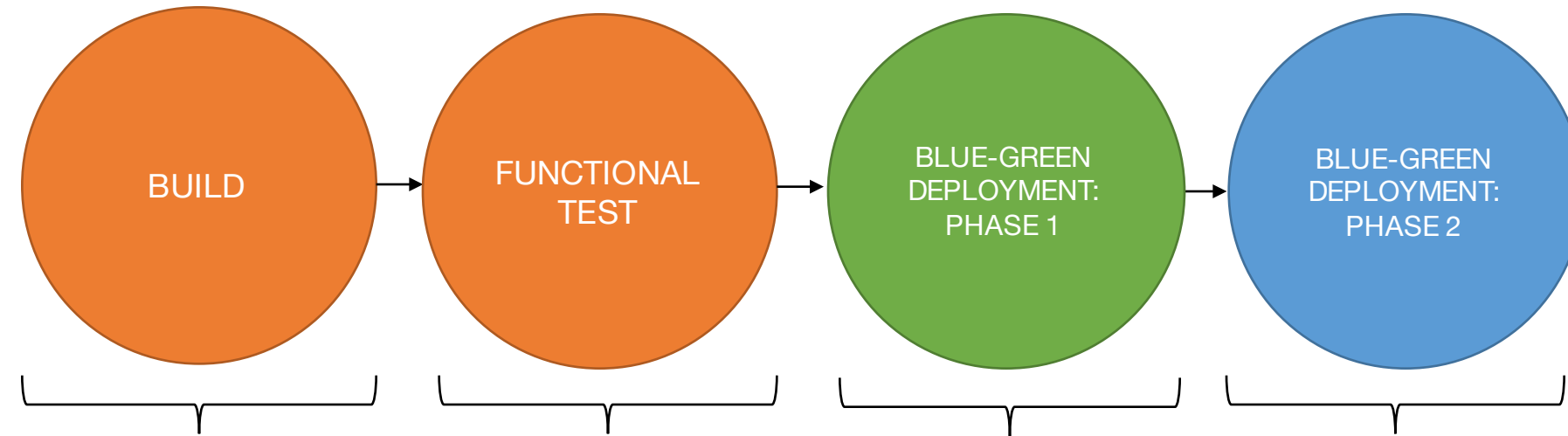BUILD

FUNCTIONAL TEST

BLUE-GREEN DEPLOYMENT: PHASE 1

BLUE-GREEN DEPLOYMENT: PHASE 2

Blue-Green Deployment
(by Martin Fowler)

Advantages:
- Hot deploy (0 downtime)

Disadvantages:
- Traffic redirection can cause troubles

1. Checkout from Git repository
2. Execute Gradle build with unit and integration tests
3. Build the Docker image

4. Execute automated functional tests (Jmeter, Selenium…) if available
5. Deploy generated image to Docker repository

6. Redirect all the traffic to Green machine
7. Deploy the Docker image to the Blue machine

8. Switch all the traffic to Blue Machine
9. Deploy the Docker image to the Green machine
10. Restore balancing

Stop if something fails