

Continuous Deployment pipeline demonstration spiced with Robot Framework and Acceptance Test Driven Development

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Workshop Agenda

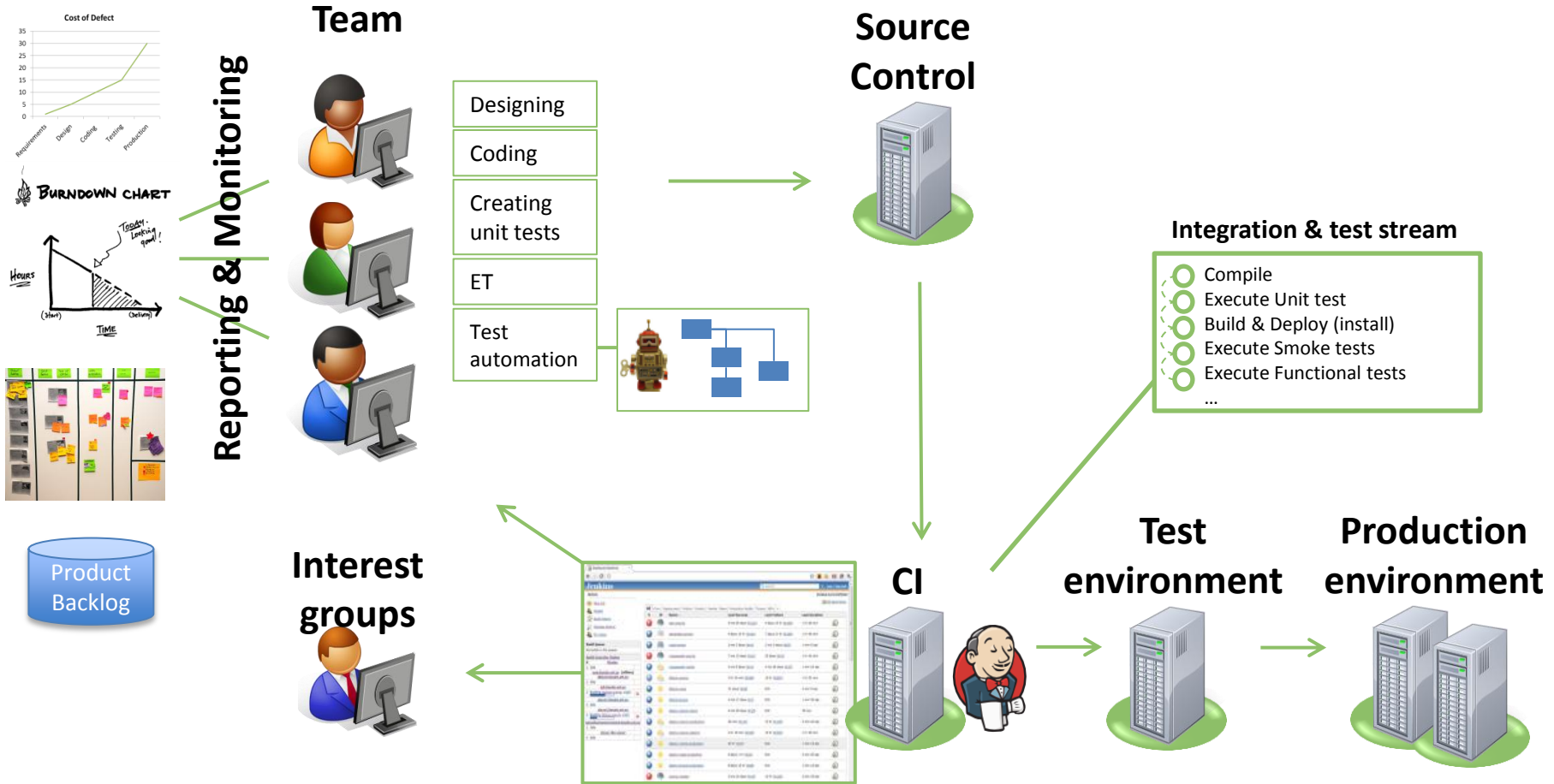
- Who We Are?
- Continuous Deployment
- Workshop Example
 - The story line
 - Roles
 - Environment & tools
- Workshop Exercise

Omenia Ltd

- An IT-craftsmanship company focusing on Agile testing, Test Automation and Quality Assurance services
- Founded in 2013 by independent experts
- Many decades of expertise (variety of domains)
- Value to customers

Continuous Deployment

1/2



Continuous Deployment

2/2

- Extends the concept of Continuous Integration
“Continuous Integration is a SW development practice where team members integrate their work frequently, usually each person integrates at least daily - leading to multiple integrations per day.” - Martin Fowler
- Continuous Deployment just adds several layers of testing and commissioning. Starting from initial commit to final deployment in production.
- Focus on speed and automation!

Workshop Example / Storyline

1. New feature is requested by a customer
2. New sprint is about to start
 - a. Organize an ATDD workshop (PO)
 - Example of the new functionality presented as test flow
 - Development team joins to sprint grooming and “3 amigos” start to chat
 - b. Continue development
 - Design the implementation
 - High level plan for acceptance test cases is
i.e. specification to the new feature + corner cases
 - c. Parallel as one developer starts to program new feature, the other starts to implement test cases

Workshop Example / Storyline

- d. Adding acceptance test cases to the version control
- e. As soon as implementation is ready and committed, CI-system starts its work including various testing activities.
- f. The last phase of CI work is the acceptance testing phase. If all tests are passed, the new feature can be commissioned to production environment.
- g. A new feature is deployed and released to live production environment during this live presentation.

If any questions or development related worries PO should be available for development team.

Workshop Example / Roles

- Product owner and Business analyst:
Mr. Toni Kortepohja
- Test oriented developer and QA:
Mr. Antti Pohjonen
- Hard core web-application developer:
Mr. Ismo Aro

Workshop Example / SUT

- SUT: Ruokakori.net
“A crowd sourced database for finding the cheapest grocery store in a specific area.”
- Tools
 - Google AppEngine (Python)
 - Robot Framework
 - Git / BitBucket

Kirjaudu sisään

ruokakori.net

Vertaa ruokakorien hintoja. Tiedonkeruu tapahtuu käyttäjien toimesta.

Lidl Sello, Espoo	20.62 €	(Päivitetty 10.7.2013)
K-Citymarket Jumbo, Vantaa	22.24 €	(Päivitetty 21.7.2013)
Prisma Jumbo, Vantaa	22.24 €	(Päivitetty 21.7.2013)
Prisma Sello, Espoo	22.38 €	(Päivitetty 10.7.2013)
prisma viikki, helsinki	22.42 €	(Päivitetty 8.1.2014)

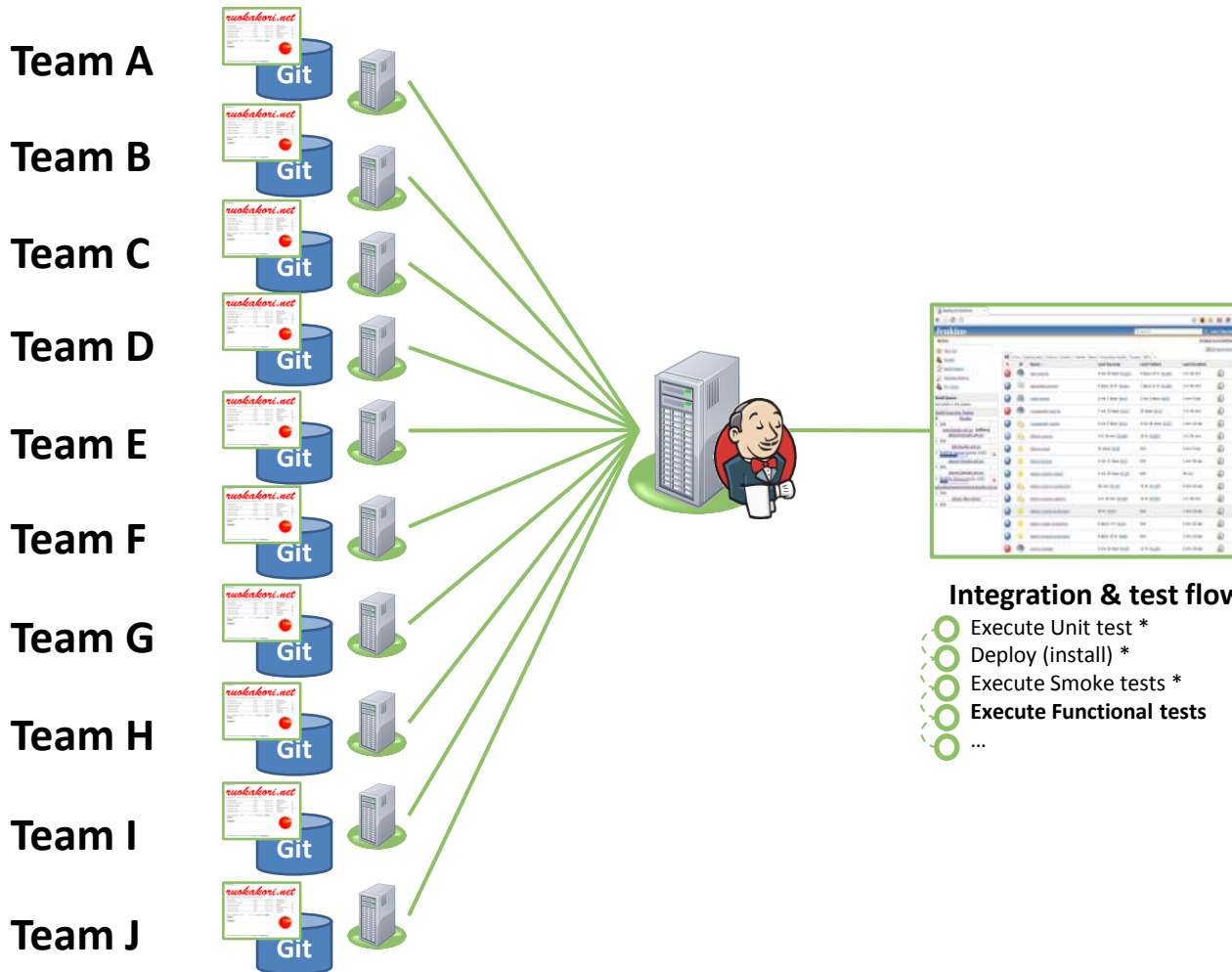
Halvin Kaupunki Alue 5 Postinumero

Ruokakorin sisältö	
Suomalainen rasvaton maito	1 l
Suomalainen tomaatti	1 kg
Reissumies	4 kpl
Oltamanni	1 kg
Suomalainen nautan jauheliha	400 g
Juhla Mokka kahvi	500 g
Maukettu jogurtti	1 l
Tutti Frutti Jumbo	400 g



Palvelua kehitetään käyttäjien toiveiden perusteella. | Bugit ja toiveet: [vikaseuranta](#) | Palaute: palaute@ruokakori.net

Workshop Example / Environment



Workshop



Workshop Exercise

- Approx. 3 person groups
- Follow instructions to set up your test environment

And start the process:

- Implement new tests
- Push tests into the Git repo
- Get feedback from Jenkins
- Continue implementing and enhancing your tests

REMEMBER TO PUSH WHENEVER YOU NEED FEEDBACK



Thank You!