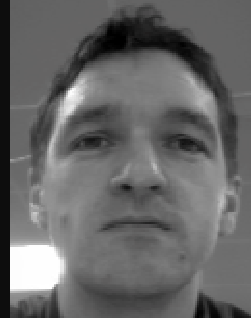


sky.com: Behind Britain's Entertainment Infrastructure

- Glenn Saqui
 - Agile Energizer
- Jon Mullen
 - ScrumMaster



Overview. The sites we build and maintain



Introduction

- Rules of our talk
 - Boo if we say agile, or other **BUZZ** words
 - Wait until the end for questions
 - Enjoy yourself



Overview

- Old v's New

- Ownership
- Responsibility
- Accountability

- Architecture

- Seed*
- Development Environment*
- Flow*
- External Environment*

- Other

- Questions*
- Further Information*

Seed. Recruitment



- CV Screening
- Interview
- Technical Test
- OTJ Review
- Wash-up
- First Task

Seed. Team



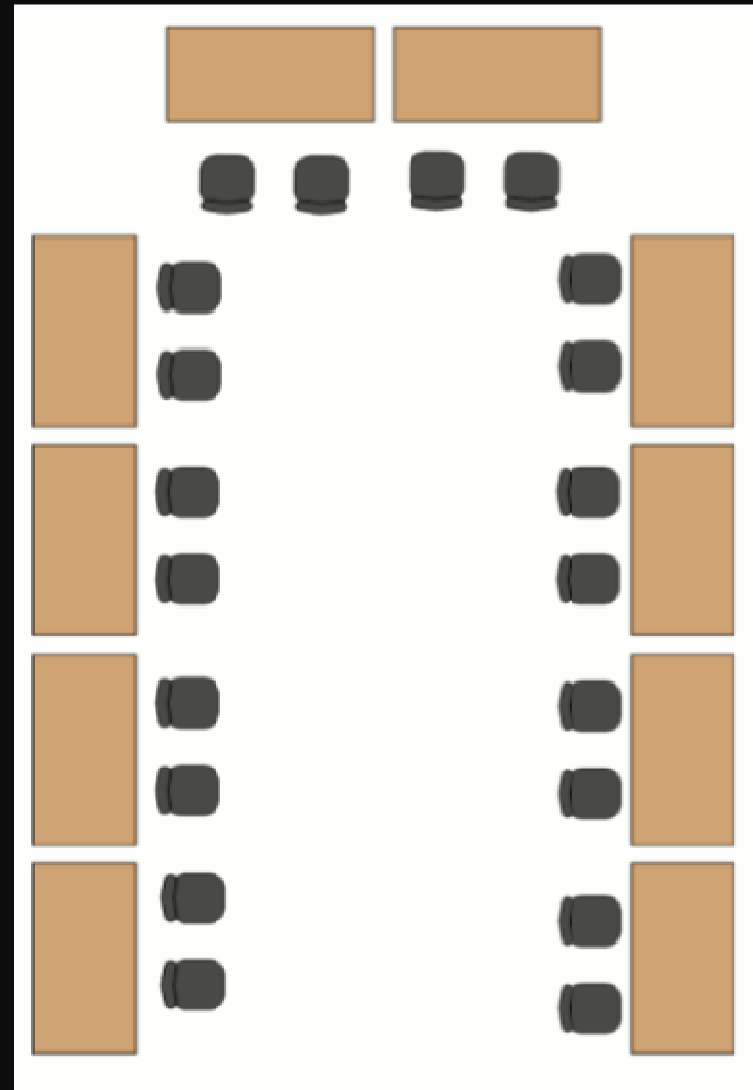
- Team
 - 2 x QA People
 - 1 x Creative Designer
 - 1 x Proxy Product Owner
 - 11 x Developers
 - 1 x Unix System Administrator
 - 1 x ScrumMaster
 - 0 x Support Technicians
- Self managing
- Norms
- Work/life balance
- Fun
- 1-2-1s
- Stakeholder Map

Development Environment. Building it!

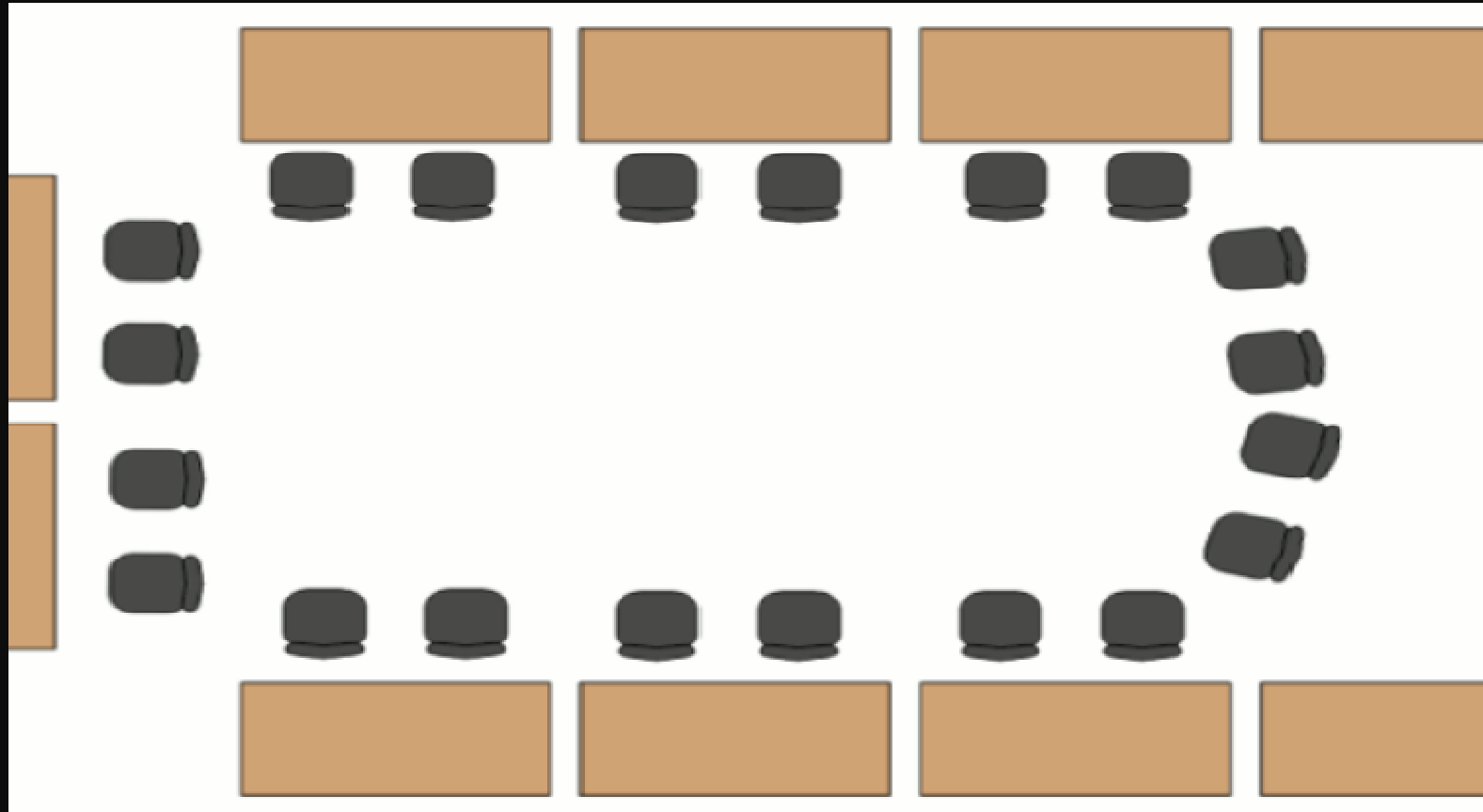


Development Environment. Bullpen

- Awareness
- Communication
- Easy to move around
- Area for fun

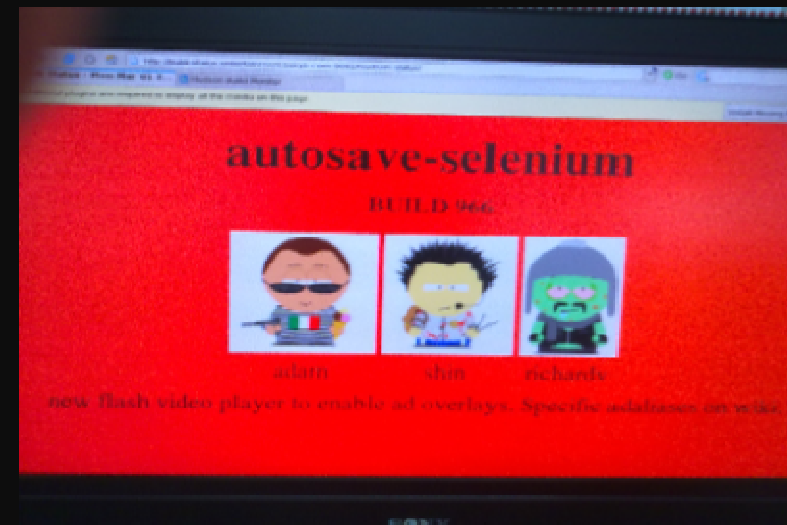
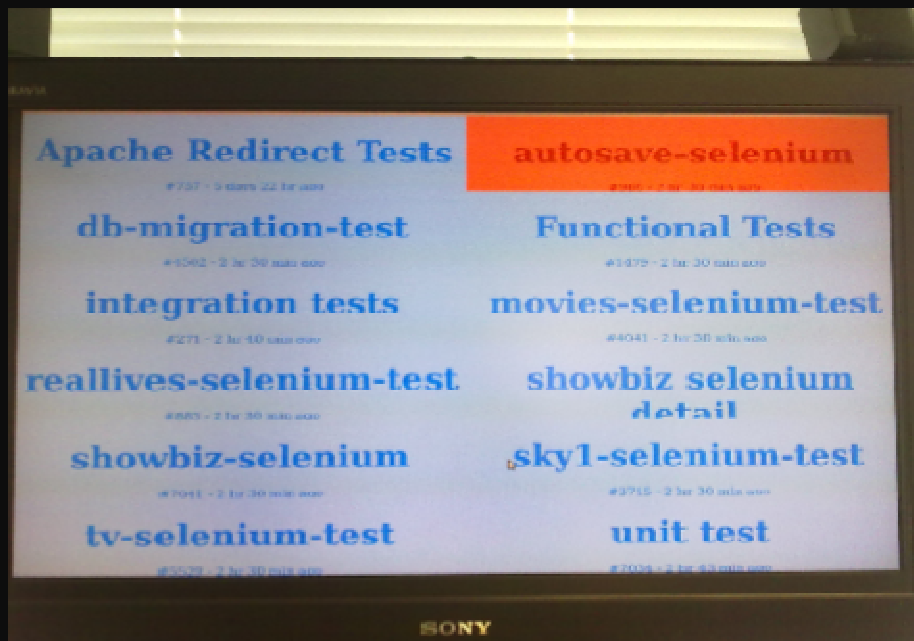


Development Environment. Timeouts



Quick and easy

Development Environment. Continuous Integration



Development Environment. Failed Build



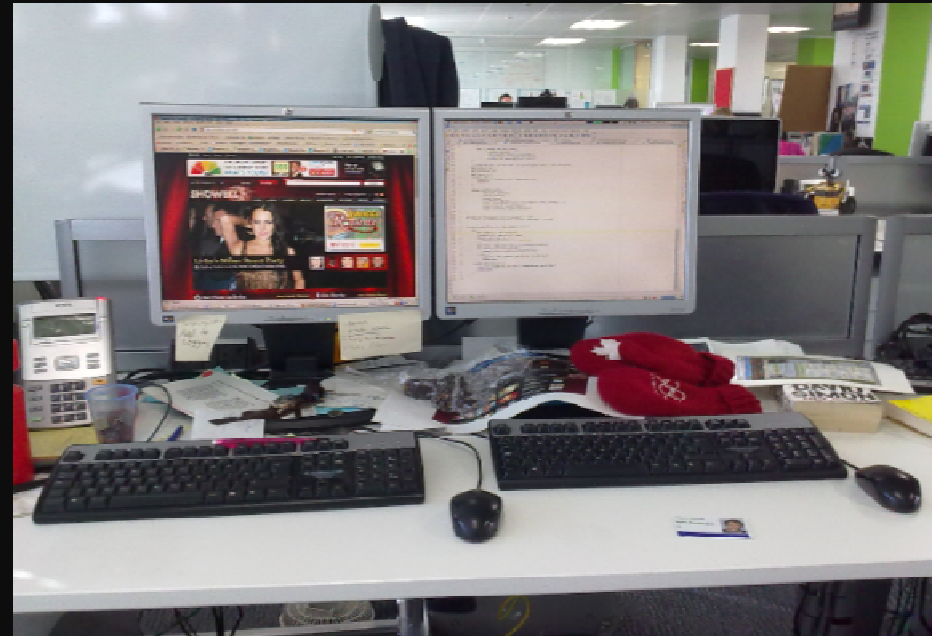
Development Environment. Tools



You wouldn't let a builder touch your house if all he had
was a wrench.

Development Environment. More Tools

- Tools that every craftsman should have
 - Language (Groovy & Grails)
 - Proper IDE
 - Fast tests



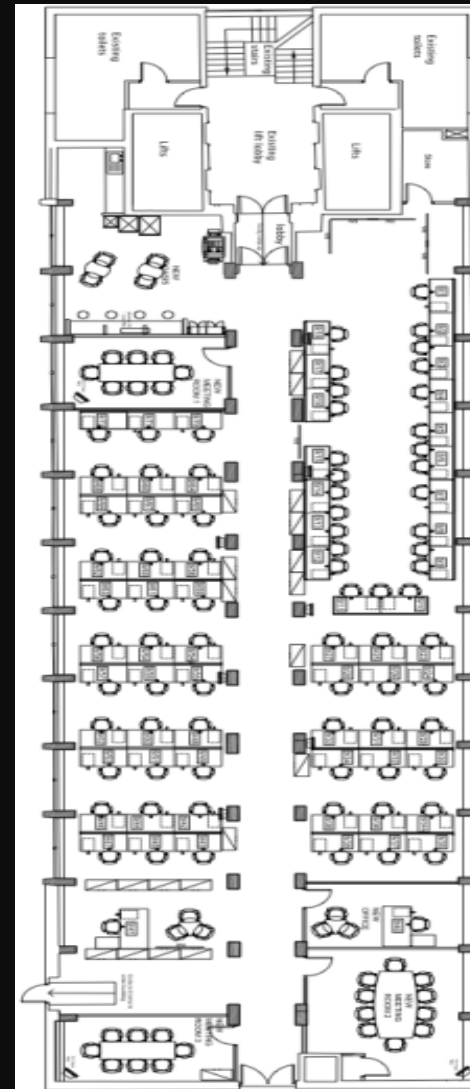
Development Environment. Pairing



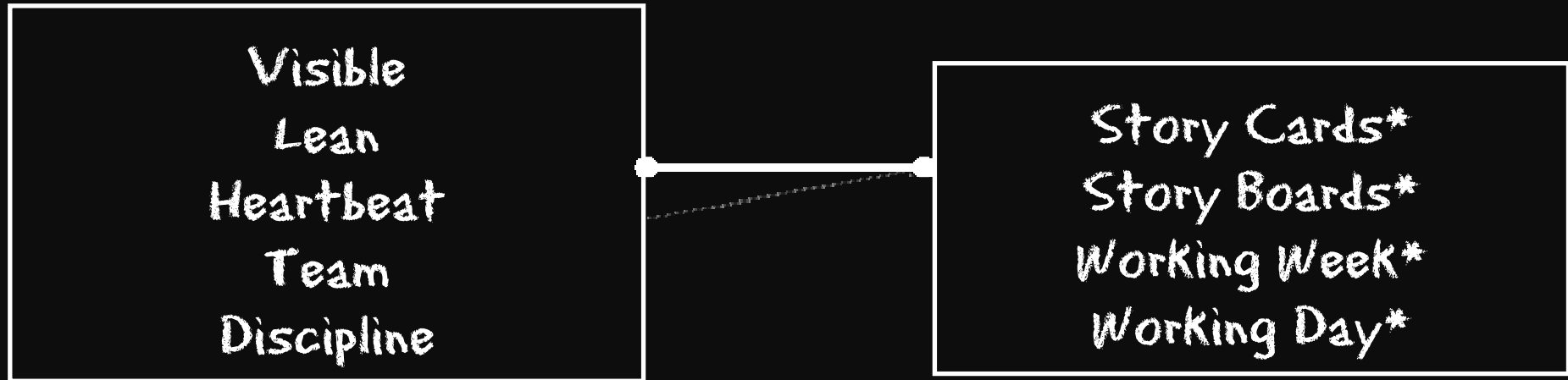
- 2 x large monitors
- 2 x keyboards
- 2 x mice
- Working together to produce high quality software
- Cross skilling

Development Environment. Colocate

- Developers sitting close to customer
- Business proxy can easily get answers he needs
- Customer can see what is being built



Flow. One Week



Flow. The week



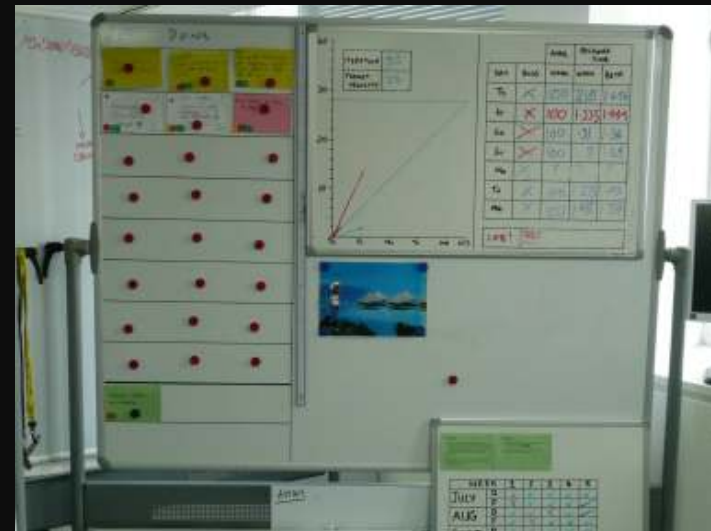
- Stand-ups*
- Boardwalk
- Pre-planning
- Planning
- Showcase
- Release
- Retrospective

Flow. A day

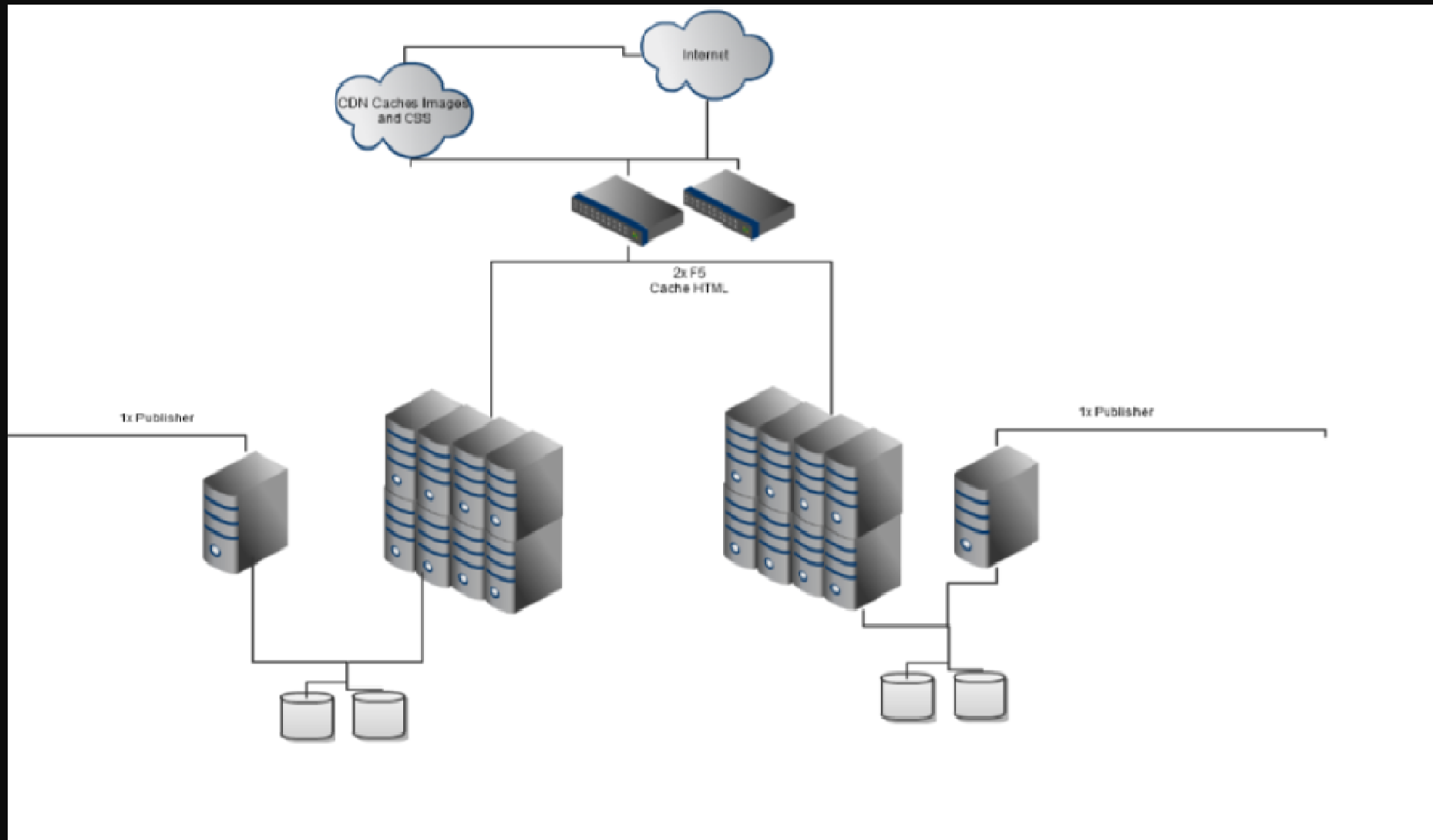
- Stand-ups
- Walkthroughs
- Pairing (swapping)*
- Demos
- Timeouts*
- Alarms



Flow. Story Boards



External Environment. Building it!



External Environment. Nitty Gritty

- CDN
- 2 x F5's with web accelerator
- 8 x Web nodes
 - Apache
 - Jetty
- 1 x Publisher node
 - Does not serve any traffic to outside world
- 2 x DB Nodes
 - Postgres 8.3
- All boxes run CentOS 5.4

External Environment. Statistics

- 35x Editors publishing content
- 0.98 sec response time
- 8+ Million page views a day
- Project has been running for 2 years
- 50,000 Pages of content
- 6 minutes per site

External Environment. Deployment

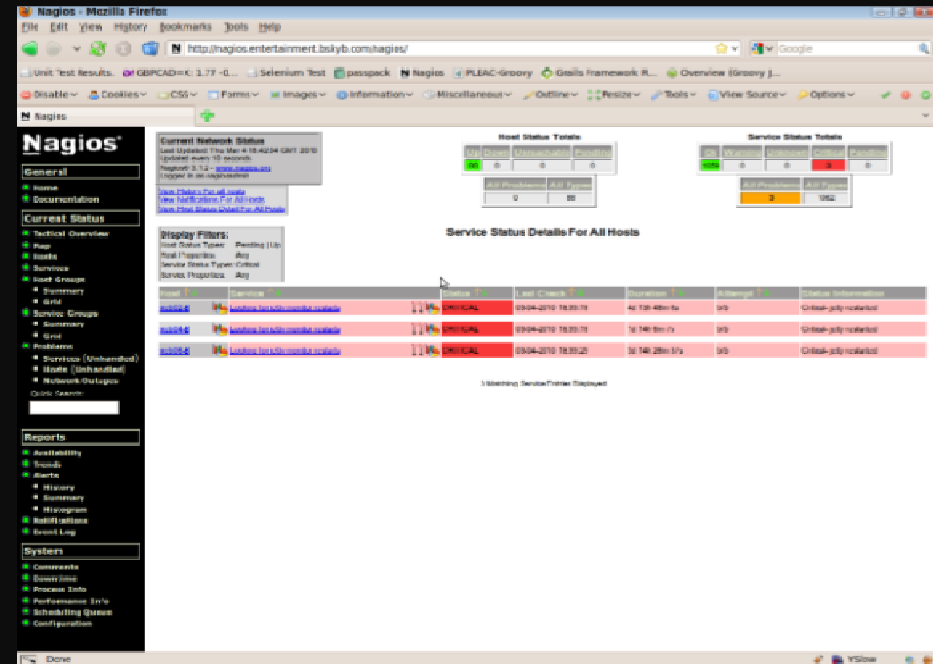
The screenshot shows the Hudson web interface for a job named 'ProdB-Deploy'. The main content area displays a table of build history with columns for 'Job', 'Last Success', 'Last Failure', and 'Last Duration'. The table lists several deployment jobs, including 'Deploy - 01 - Prod Prep', 'Deploy - 01 - Prod Phase 1', 'Deploy - 02 - Publisher Disable and Data Migration', 'Deploy - 01 - Prod Phase 2', 'Deploy - 04 - Switch Live Over', and 'Deploy - 03 - Post Deploy Test'. The interface also includes a sidebar with navigation options like 'New Job', 'Manage Hudson', and 'Build Queue', and a 'Build Executor Status' section showing the roles of various nodes.

Job	Last Success	Last Failure	Last Duration
Deploy - 01 - Prod Prep	4 days 20 hr (244)	6 mo 7 days (28)	5.7 sec
Deploy - 01 - Prod Phase 1	4 days 20 hr (221)	19 days (221)	10 min
Deploy - 02 - Publisher Disable and Data Migration	4 days 10 hr (138)	6 mo 7 days (21)	5.3 sec
Deploy - 01 - Prod Phase 2	4 days 10 hr (117)	5 mo 22 days (93)	7 min 6 sec
Deploy - 04 - Switch Live Over	4 days 19 hr (240)	11 mo 10 days (230)	11 min 58 sec
Deploy - 03 - Post Deploy Test	4 days 10 hr (251)	26 days (258)	2.6 sec

- 15 minute deploy
- Pair does it while the editors are at lunch
- 5 click deploy

External Environment, Monitoring and Support

- Nagios
- Sends texts to on call team members
- Gomez
- 24/7 Support by the team



Other. Questions?

NOT PROBLEMS!



Other. Further information?

- Glen Saqui
 - glenn.saqui@gmail.com
- Jon Mullen
 - jon.mullen@gmail.com
 - jon.mullen@bskyb.com

We'll also be around for the rest of today and this evening ...