CADEC 2011

Senaste nytt från QCon 2010

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QCON 2010 SF

- 1st week in November 2010
- 2 days tutorials
- 3 days conference
- Halloween
- Go GIANTS!
- Anchorsteam...





Agenda

Trends according to me...

- Scaling How to handle many users?
- Agile Development What is the state today?
 - What have we learned?
- Cooperation between Dev & Ops
 - "New" way of solving problems
- Other
 - Meta-architecture
 - Node.js





I should not talk about this!

- New languages Clojure, Erlang, Groovy, Ruby, ...
- RESTful SOA
- Pretotyping
- Brownfield software
- Actor thinking
- Semantic web
- Personal retrospective
- NoSQL





Scaling, stories from reality

- Twitter Tweets, Timelines and Social graphs
- eBay more then 220 million items on sale...
- Google 5000 developers, 2000 projects ...
- Netflix 16 millions Internet subscribers to movies and TV shows...
- Visa 130 million transactions each day in 200 countries...
- Facebook reaches 500 million people each month...
- •





Agile, retrospective

- Agile has matured, how does it work in reality? Is it effective?
 - Agile with Kanban and Lean
 - Big Ball of Mud
 - Continous Deployment to production
 - Keeping Agile Agile
 - Agile Does Not guarantee Value creation
 - **–** ..





Agile with Kanban and Lean

- Agile antipatterns
 - Breakdown madness, Sprinting to meaningless deadlines,
 Cargo Cult batch sizes (2-4 veckor), Sub optimization,
 Synchronizing everything, Too much work in progress, ...
- "Solution"
 - Lean principles
 - » Identify value from the customer's perspective, ...
 - Kanban principles
 - » Limit work in progress, Quality built in, ...





Agile and Big Ball of Mud (BBoM)

- A BIG BALL OF MUD is haphazardly structured, sprawling, sloppy, duct-tape and bailing wire, spaghetti code jungle.
- It is the de-facto standard software architecture.
- Why is the gap between what we preach and what we practice so large?
- People write code == People make mud
- Keep it working!
- Agile to the rescue!?





Development & Operations - Cooperation

- Much to gain by bringing Development and Operations together. Make them understand each other!
 - Continuous Delivery
 - » Ask yourself:
 - How much time does it take your new line of code to meet the customer?
 - Dev & Op cooperation when the worst happens...
 - » When the Fur Flies: Dev and Ops Cooperation when the Worst Happens





Design at scale - Meta-architecture

- Building a system that can be extended and adapted without a programmers intervention?
 - Architectures that can dynamically adapt to changing requirement are sometimes called reflective or metaarchitectures. We call a particular kind of reflective architecture an Adaptive Object-Model (AOM)
 - An AOM is a system that represents classes, attributes, relationships and behavior as metadata. It is a model based on instances rather than classes.





Node.js

- Node.js is a set of bindings to the V8 javascript VM.
- Allows one to script programs that do non-blocking I/O in javascript.
- Sample of a simple HTTP server

```
http = require('http');
s = http.Server(function (req, res) {
  res.writeHead(200);
  res.end('hello world\n');
});

// Listen on port 8000
s.listen(8000);
```





Links and presentations!

- QCON SF: http://qconsf.com
 - Track: Architectures you've always wondered about
 - Raising the bar: Using Kanban and Lean to super optimize your Agile implementation
 - Big Ball of Mud: Is This the Best that Agile can Do?
 - Continuous Delivery Presentation
 - When the Fur Flies: Dev and Ops Cooperation when the Worst Happens
 - When should you consider meta-architectures?
 - http://adaptiveobjectmodel.com/
 - Node.js: Asynchronous Purity Leads to Faster Development
- QCON London, 7-11 Mars 2011: http://qconlondon.com/



