



Cloud, DevOps and Other Fashion News for #tester's

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Agenda

- Cloud comes, what changes?
- xOps, what tools I need to learn?
- Quality pipelines
- Conclusions

Lonely tester in the cloud?

- 1970's: Deliver punch cards today, get the test results next week
- 1980's: One test PC for the team, my slot is on Tuesdays
- 1990's: My test PC on My desktop
- 2000's: Test server for team use, virtualization
- 2010's: Test servers in the cloud, just in time only for me

Differences between cloud providers

- Amazon, Google, UpCloud, Rackspace, etc.
- Where are my resources?
 - Regulatory requirements, latency
 - Private vs. public cloud
- Portability (Vagrant, Docker)
- Availability
 - Monitoring, backups, contingency plan
- Price, invoicing policy

Tools

- Many of the tools are "open core"
- Vagrant
 - Tool for managing local and cloud virtual machines
 - Vagrant up
 - Vagrantfile defines the machine specs
 - Works for local and cloud machines

- Docker
 - Light virtualization with containers
 - Micro services
- Orchestration needed when number of containers grow
 - Kubernetes by Google
 - Swarm by Docker

Provisioning

- Shell
- Puppet
- Chef
- Ansible
- ...

DevOps + SecOps + TestOps = QualityOps

- XP kicked testers out
- Later, agile brought testers and developers in same teams
- DevOps brought operations expertise to the team
- SecOps brings in the security experts
- It's not enough to have testers and developers, you really need the other experts as well!
- Expertise & automation are the key to results

Continuous Integration/Delivery/Deployment

- Cloud, xOps and tools enable CI and CD/D pipeline
- For example Jenkins as pipeline backbone
- Robot FW as a test framework for system/UI testing
 - Unit test framework of choice
- Static analysis tools
- Git/Mercurial as a version control system

Quality Pipeline

Progress visualization:
Radiator & Quality Dashboard

Task Management:
Tasks tied to DoD which can
include staging results

Tools: Static analyzers, test
tools, Jenkins, virtualization,
Docker, cloud, ...

Static checks
Git branches & hooks

Jenkins tests for
unit, integration, system

Delivery
Deployment

Takeaways

- Fast feedback cycles on quality
 - First feedback in less than 5 seconds
- Skilled teams: developers, testers, operations, security, etc.
- Automation

Testiautomaatioklinikka & Ura

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