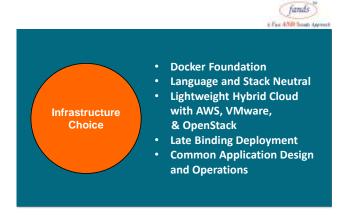
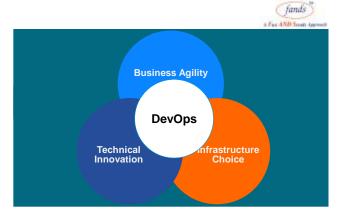
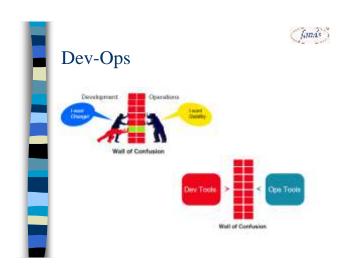


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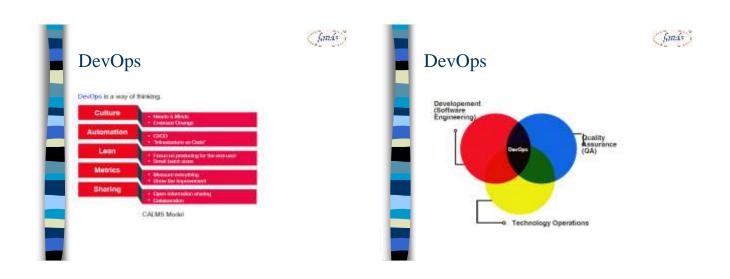


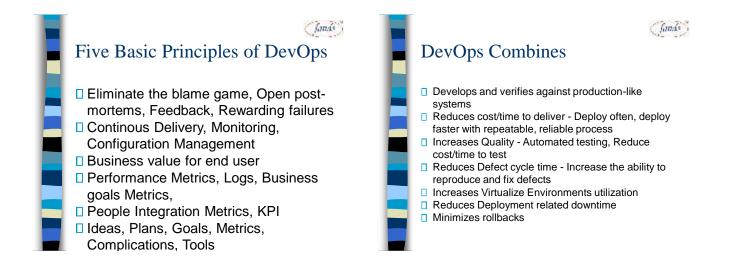


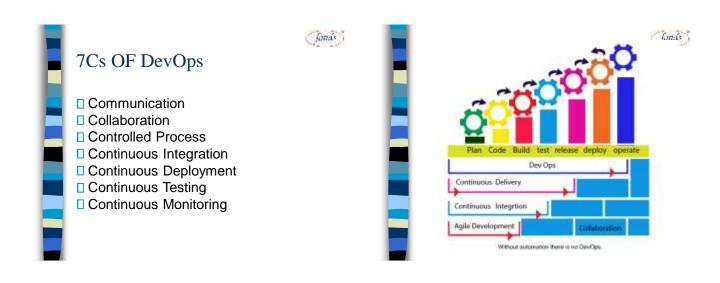


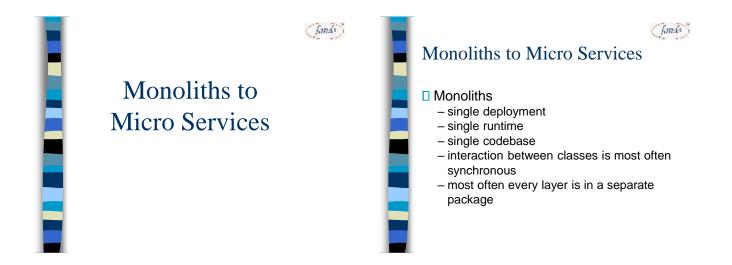


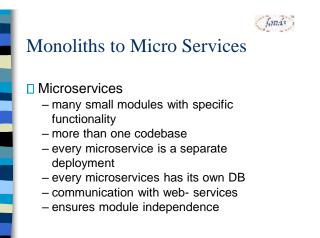
famas Why DevOps? Never Miss Alerts 31% of DevOps teams said they never miss critical alerts. No other teams could make that claim. Respond Faster 75% of DevOps companies said they respond within a half hour. DevOps teams never take longer than an hour to respond. ■ Make Your Stakeholders Happy Only 6% of DevOps shops' business stakeholders report dissatisfaction in incident response, versus 30% for non-DevOps teams. ☐ Keep Your Customers Happy, Too DevOps teams are 30% more likely to be transparent with customers about critical incidents.

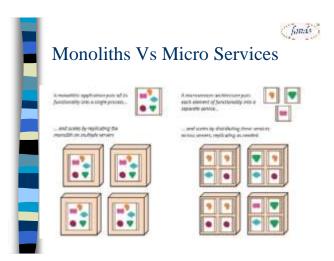


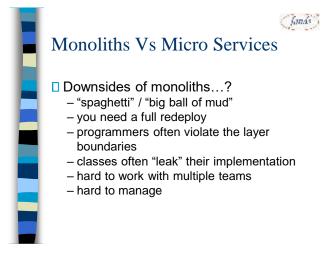


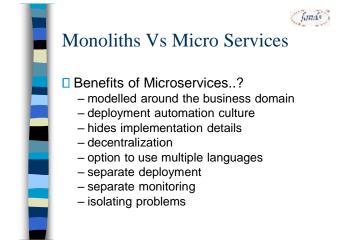


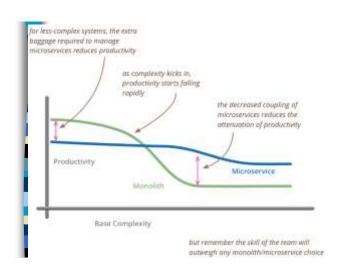














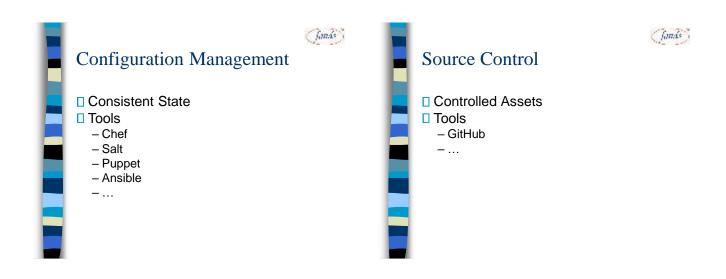
Issues with Micro Services

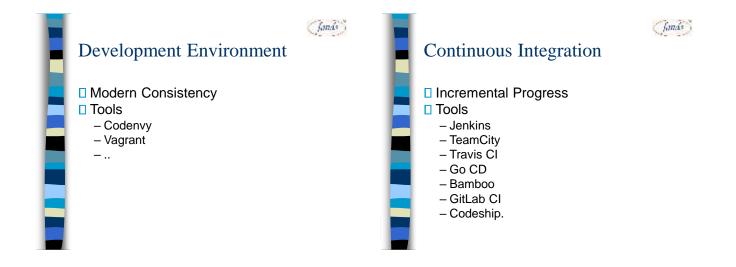
- Network overhead
- □ Transaction coordination
- □ Need for duplicating common data – keeping it in sync
- Complicated deployment pipeline dependencies

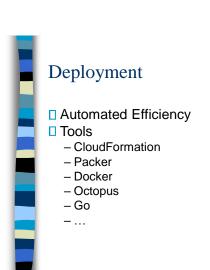
















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Continuous...







- □ Continuous Delivery is the ability to get changes of all types—including new features, configuration changes, bug fixes and experiments—into production, or into the hands of users, safely and quickly in a sustainable way.
- Our goal is to make deployments—whether of a largescale distributed system, a complex production environment, an embedded system, routine affair that can be performed on demand.
- ☐ We achieve all this by ensuring our code is always in a deployable state, even in the face of teams of thousands of developers making changes on a daily basis. We thus completely eliminate the integration, testing and hardening phases that traditionally followed "dev complete", as well as code freezes.



Continuous Delivery is a small build cycle with short sprints...

- □ Where the aim is to keep the code in a deployable state at any given time. This does not mean the code or project is 100% complete, but the feature sets that are available are vetted, tested, debugged and ready to deploy, although you may not deploy at that moment.
- May be our preferred method of working.

Continuous Deployment

□ With Continuous Deployment, every change that is made is automatically deployed to production. This approach works well in enterprise environments where you plan to use the user as the actual tester and it can be quicker to release.

Continuous Integration

□ Continuous Integration is merging all code from all developers to one central branch of the repo many times a day trying to avoid conflicts in the code in the future. The concept here is to have multiple devs on a project to keep the main branch of the repo to the most current form of the source code, so each dev can check out or pull from the latest code to avoid conflicts.







Continuous Integration (CI)

- Continuous Integration (CI) is a development practice that requires developers to integrate code into a shared repository several times a day. Each check-in is then verified by an automated build, allowing teams to detect problems early.
- By integrating regularly, you can detect errors quickly, and locate them more easily.

Continuous Integration

☐ Continuous Integration is a software development practice where members of a team integrate their work frequently, usually each person integrates at least daily - leading to multiple integrations per day. Each integration is verified by an automated build (including test) to detect integration errors as quickly as possible.

-- Martin Fowler

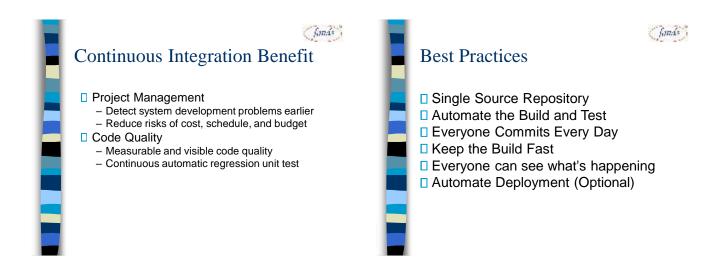
Ref: http://martinfowler.com/articles/continuousIntegration.html

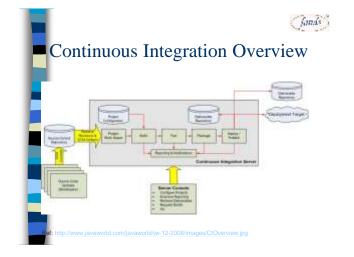
Why Continuous Integration? Integration is hard, effort increase exponentially with Number of components Number of bugs Time since last integration

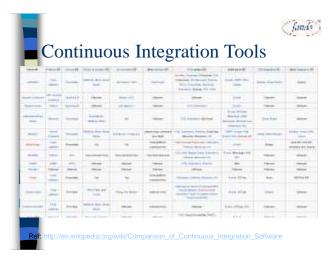
CI – What does it really mean?

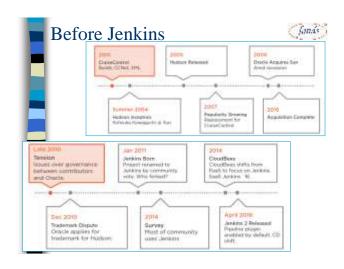
- At a regular frequency (ideally at every commit), the system is:
 - Integrated
 - All changes up until that point are combined into the project
 - Built
 - The code is compiled into an executable or package
 - Tested
 - Automated test suites are run
 - Archived
 - Versioned and stored, can be distributed as is, if desired
 - Deployed
 - Loaded onto a system where the developers can interact with it



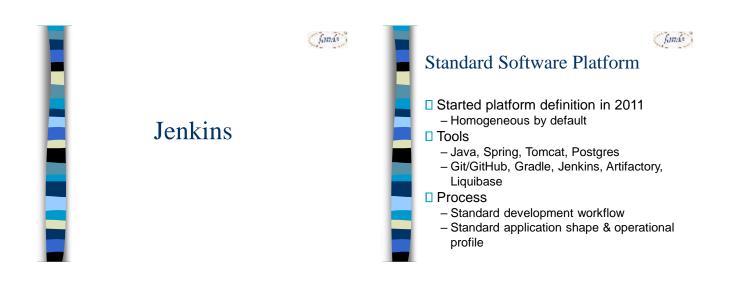


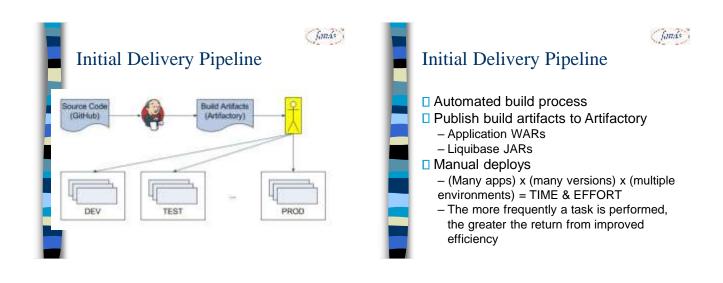


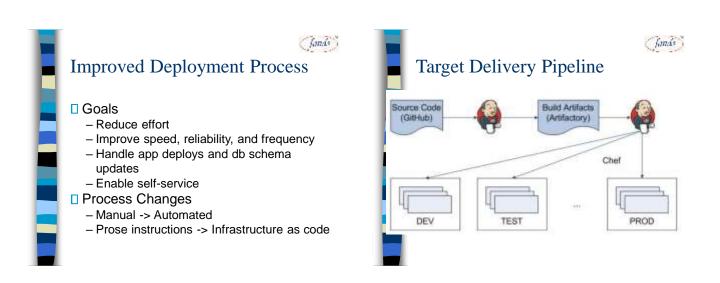


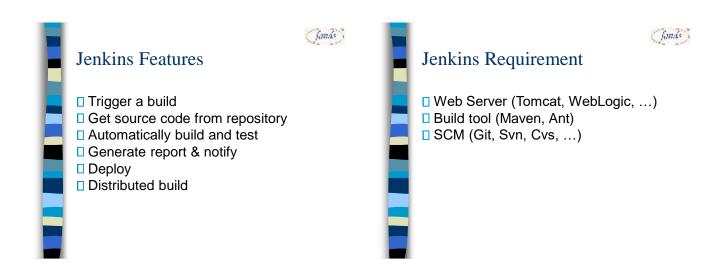


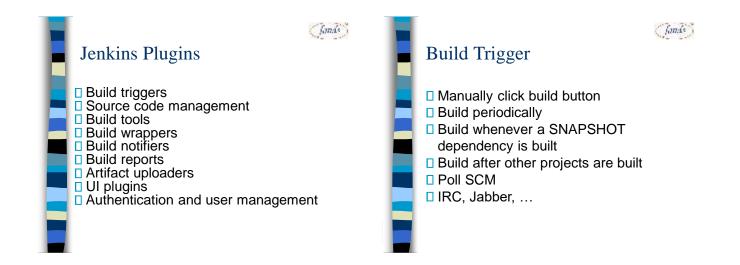






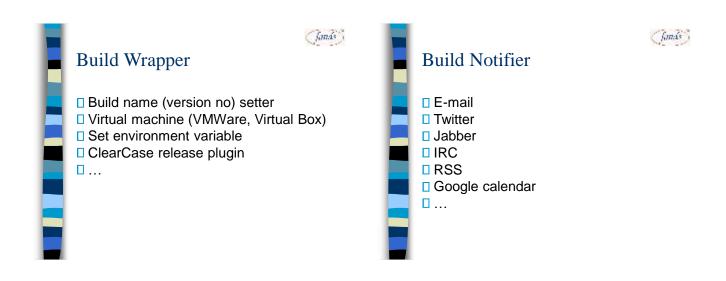


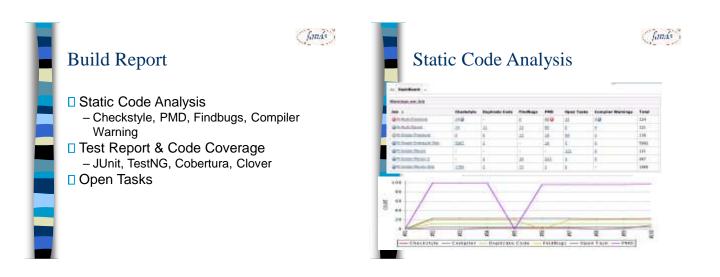










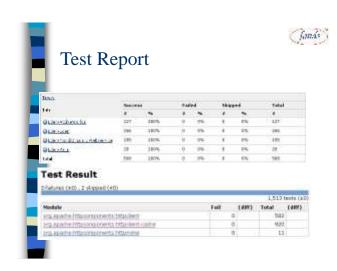




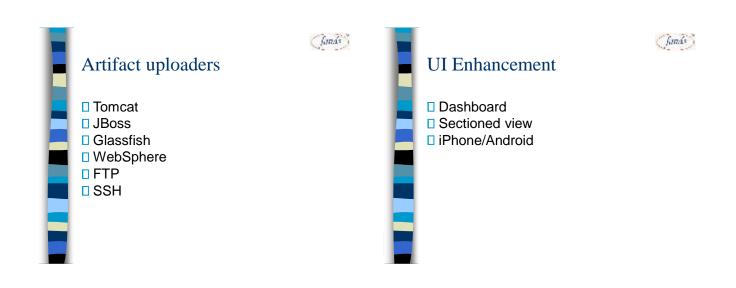


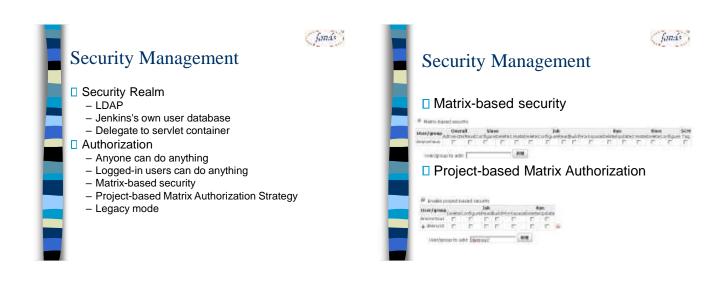


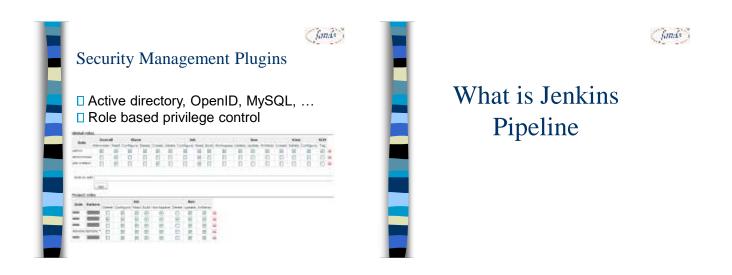


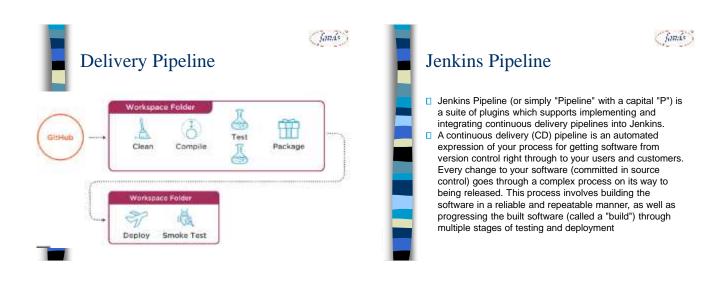


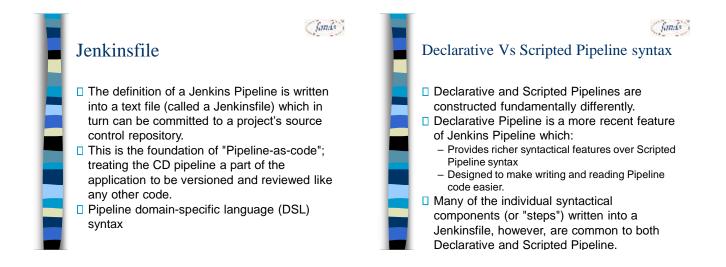


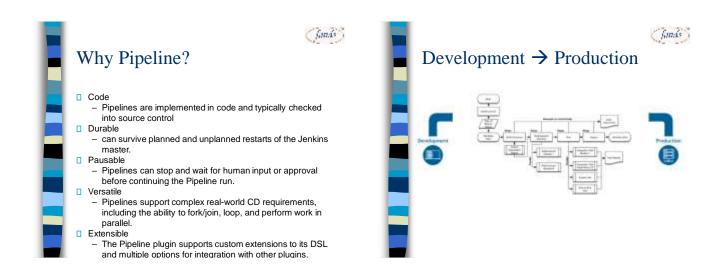


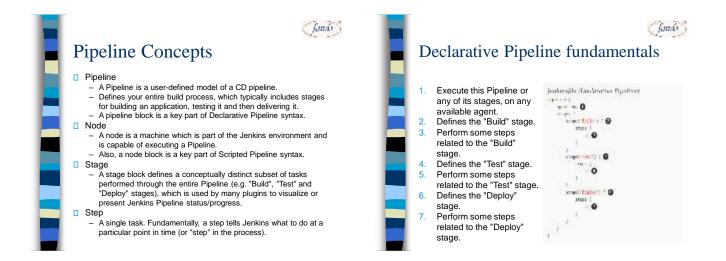


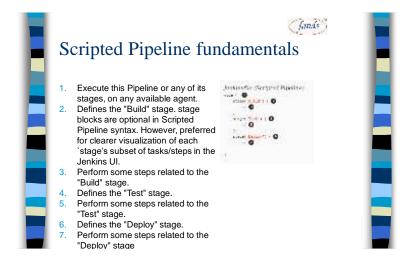








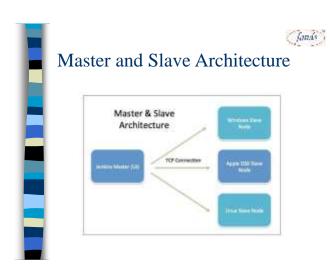






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Distributed Environment



Jenkins Master

- Your main Jenkins server is the master machine. The tasks performed by the master are:
 - Scheduling build jobs.
 - Dispatching builds to the slaves for the execution.
 - Monitor the slaves.
 - Recording and presenting the build results.
 - Can also execute build jobs directly.





QUESTION / ANSWERS

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Jenkins Slave

- ☐ A slave is a Java executable that runs on a remote machine. The characteristics of the slave are:
 - It hears requests from the Jenkins Master instance.
 - Slaves can run on a variety of operating systems.
 - The job of a Slave is to do as they are told to, which involves executing build jobs dispatched by
 - We can configure a project to always run on a particular Slave machine or a particular type of Slave machine, or simply let Jenkins pick the next available Slave.





