

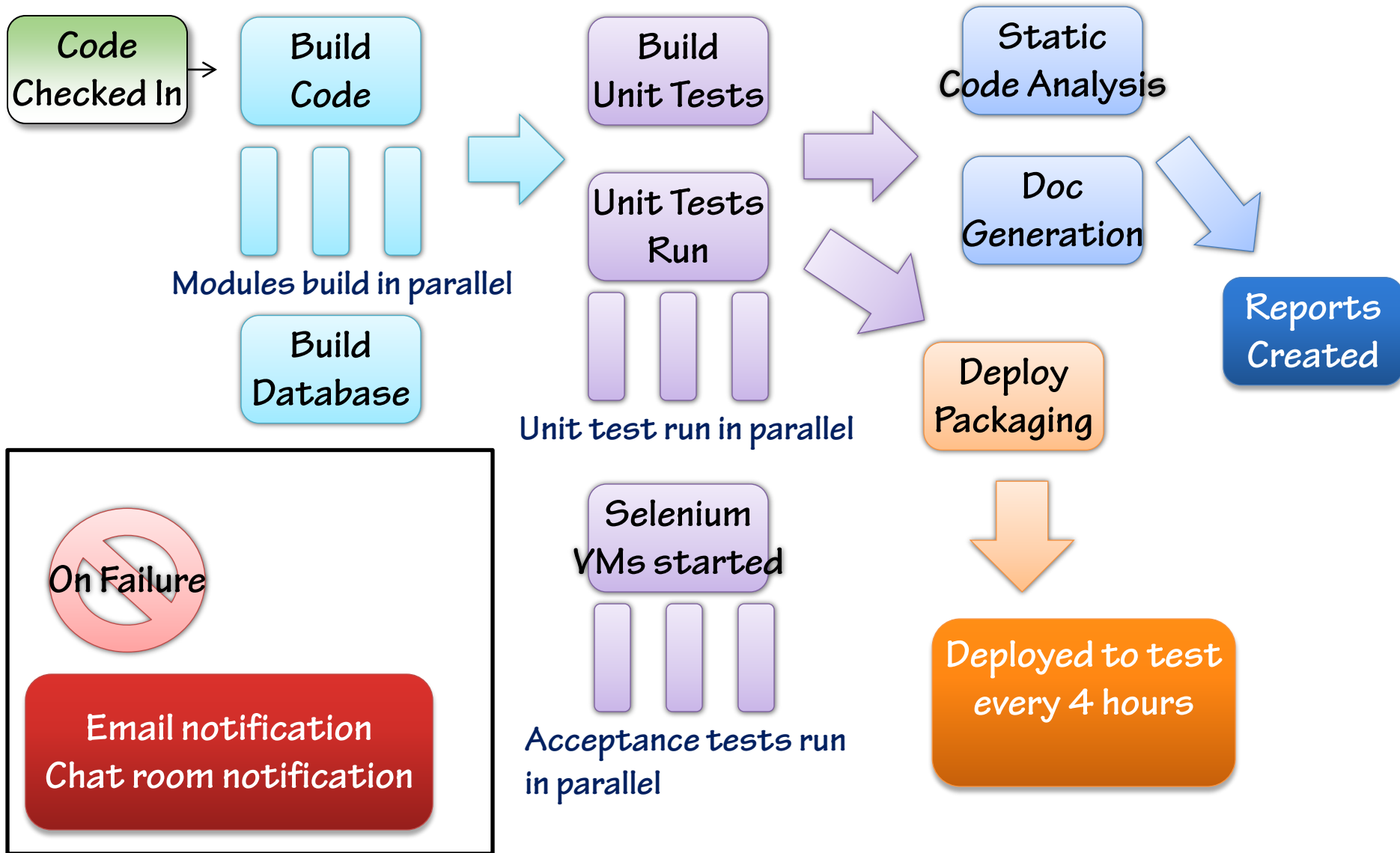
A Case Study



Golden Coders Incorporated

“Software should be plated in gold”

The Flow



Stay Calm...



It takes time to build a complex environment

Areas of Discipline

- Unit testing
- Test coverage
- Acceptance Testing
- Code quality metrics
- Notifications
- Documentation
- Deployments



You too, can be a golden coder

Unit Testing



Unit Testing

- Depends on source code being built
- Never let them fail
- Keep them unit size
- Keep them short



Test Coverage

- Coverage doesn't mean quality!
- Perhaps fail the build

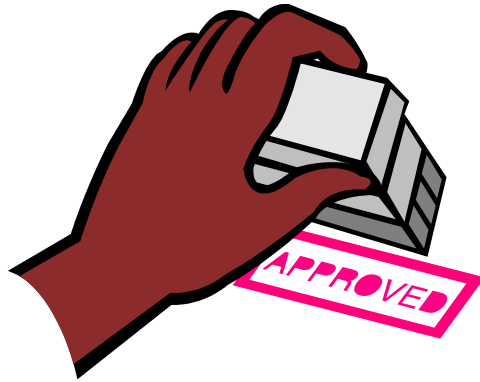


Acceptance Testing



Acceptance Testing

- Can be slow
- Takes serious effort
- Blog series:
 - <http://simpleprogrammer.com/getting-up-to-bat-series/>



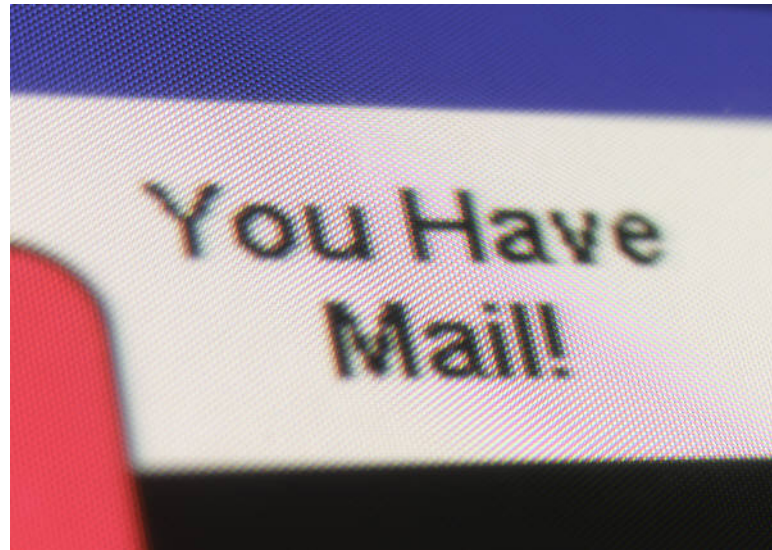
Code Quality Metrics

- **Static analysis**
- **Java tools**
 - PMD
 - FindBugs
- **.NET tools**
 - FxCop
 - StyleCop
- **Set a threshold**
 - Things should not get worse



Notifications

- Make failures known
- Don't false fail
- Multiple channels
- Analyze failures



Documentation

- Source code doc generators
- Help file generation
- API documentation



Deployments

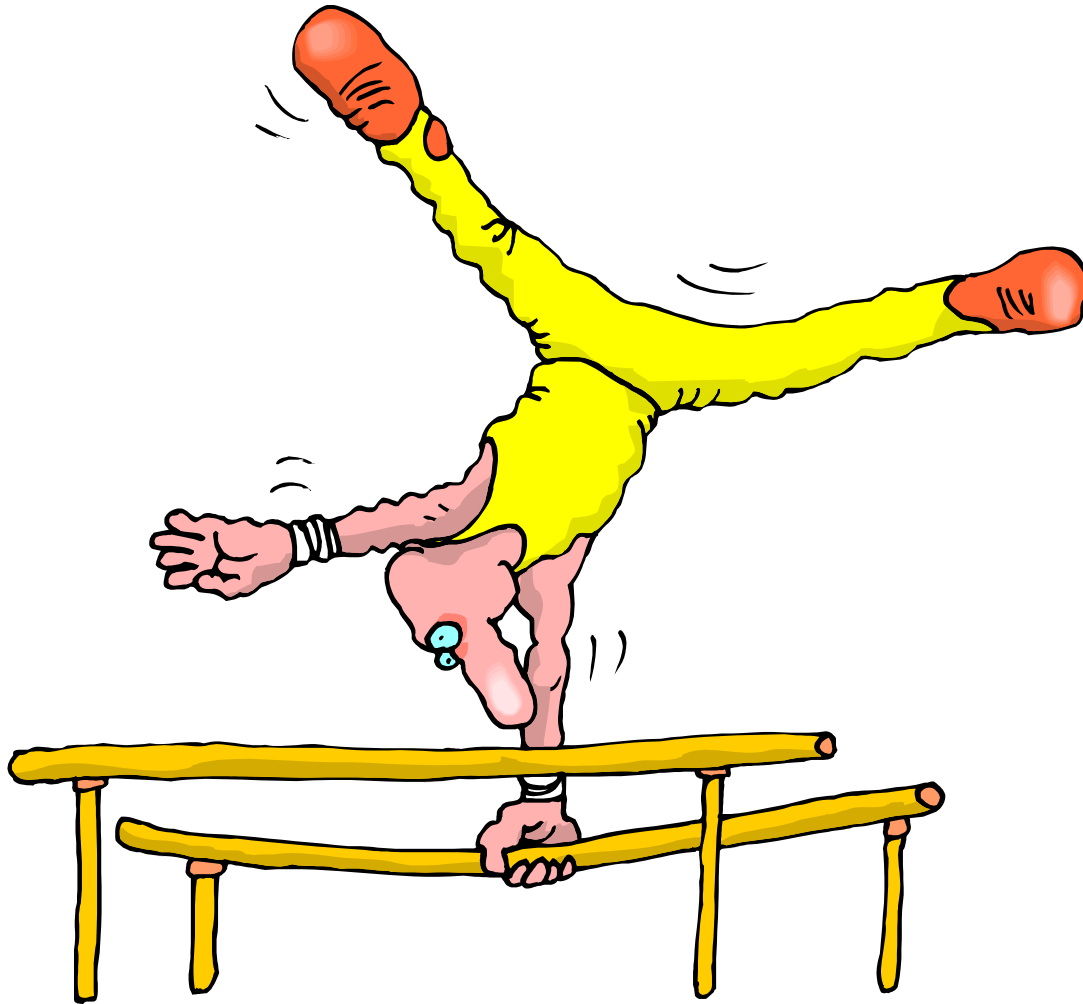
- Jenkins is great for deploying
- Periodic deployments
- Manual deployments
- Reporting built in



Growing



Parallelization is Key



VMs are Your Friend



To the Cloud!



Summary



Jenkins