

CI/CD Superpowers

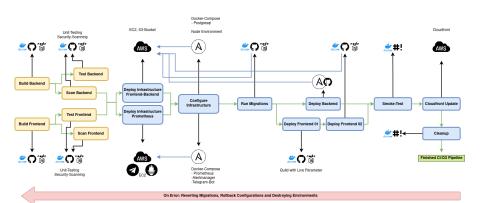
How CI/CD will give your Software Development Rocket Speed.

David Lassig

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Why do this?





Commit to Deploy

Git Repository as the Single Source of Trust:

- any new Commit can trigger complete Build-Chain
- depending on Branch only Software-Build/-Test or complete Deployment
- only successful Builds will be merged to master

✓ Everything under Control

Only Committed Code exists in Production. No lost/abandoned files. No missing Code.

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Security and Resiliency by Design

Building and Pipelining Language specific Testing and Security Scanning Tools

- Run Unit Tests
- Audit Source and Third Party Dependencies
- Fix Vulnerabilities
- only Continue if Tests and Scans success

✓ Everything under Control

Any piece of Source Code will be tested and scanned. Third party imports will be tested and scanned. On every Commit.

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Infrastructure under Version Control

Use Easy Mergeble Configuration Files like yml or json:

- Hardware described in human readable and commitable files
- Easy Organisation of Engineering Teams by using Git Mechanics
- Only running Configurations get documented and into Master Repository

✓ Everything under Control

Easy Contribution of multiple Engineers. Changing configurations are 100% documented.

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Measure Costs and Activities on Point

Cloudbased Applications are easily to monitor and provide very granular billing:

- Cloudbased Instances provide easy APIs for monitoring and alerting
- Costs are estimated by allocated Resources and only affects what you really used

✓ Everything under Control

Only successful Builds create Costs. All operation parameters are monitored. You will be alerted on exceptions.

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