Sonar

Mate Lakat

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Introduction

- Jenkins

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    - Build

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  - Run tests

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Meet Sonar

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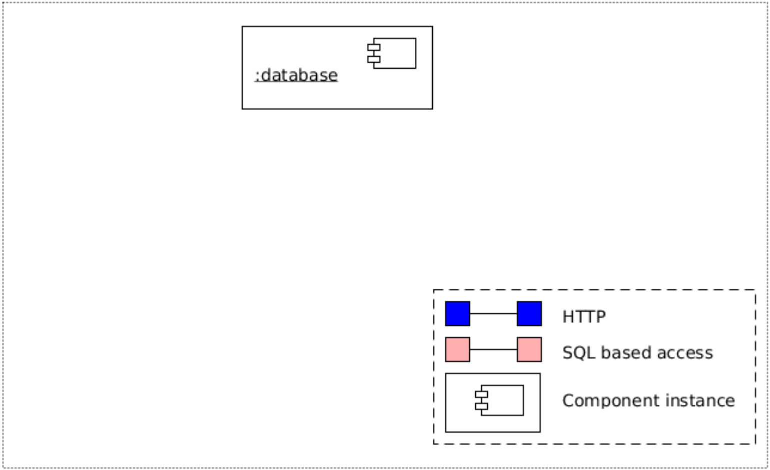
- Convert results to issues (instead of meaningless numbers)
- Framework to fix the issues in a controlled way
- Quality gate
  - New code is covered with tests
  - New code doesn't contain violations

Components of Sonar



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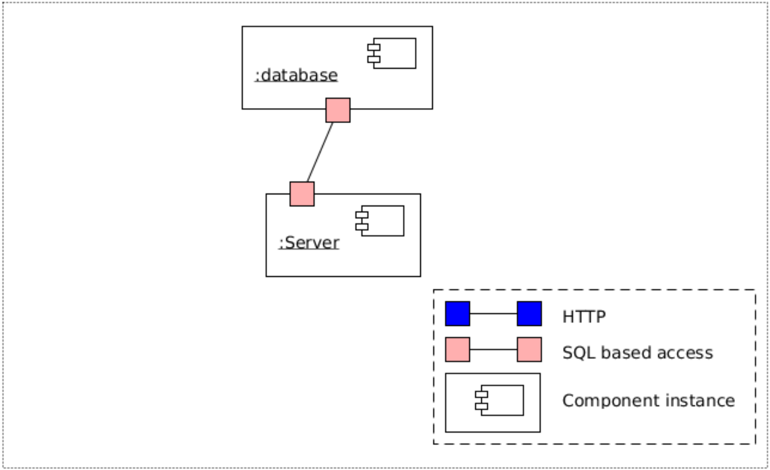

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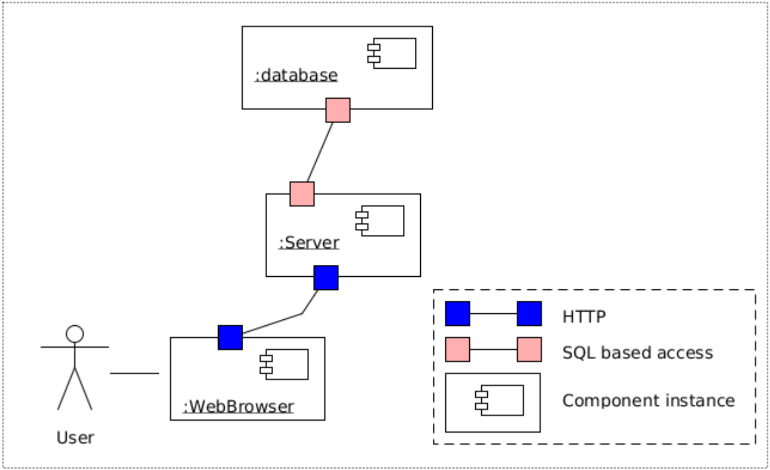

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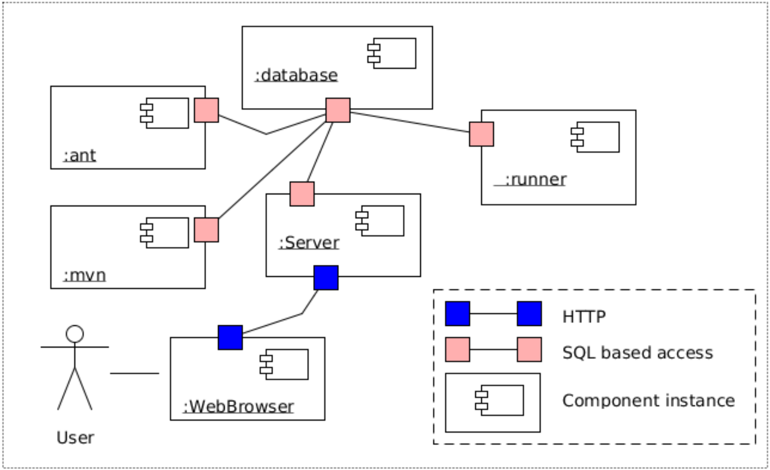

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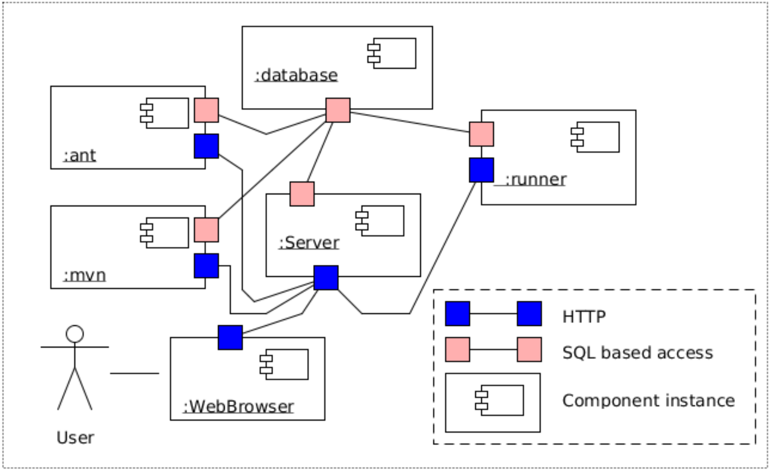

The Analyzer (mvn/ant/standalone)

- Analyze the code

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- Analysis/Preview/Incremental:

analysis Analyse the code and upload the results (daily)
preview Analyse without upload (CI)
incremental Any new issues introduced?

The Server

- Display Metrics

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- Drilldown issues

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- Drilldown issues
- Create plans

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- Display Metrics
- Drilldown issues
- Create plans
- Setup a quality gate

Demo

Demo

- Create a new project

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- Create a new project
- Disable some violations

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- Disable some violations
- Setup a Quality Gate

Notes

I learned them the hard way...

- Pylint: you have to enable pylint violations in your profile
- Pylint: use a version that recognises `-f parseable`
- nose, coverage: had to `sed` the results for full paths - otherwise they were not found
- Build breaker: enable in preview mode - settings/general/Plugins accepted for Preview and Incremental modes := `buildbreaker`
- coverage on new code: Install SCM plugin
- everything is on github.com/matelakat/sonar-investigation

The End