Code Quality (Clean Code) with SonarSource products



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SonarSource has different solutions for improving code quality

- sonar-scanner CLI (the core)
- SonarQube (the analysis platform)
- SonarLint (linting in IDE, requires JDK)
- SonarCloud (hosted version of SonarQube)

install sonar-scanner

- extract archive anywhere
- add path to bin directory to your PATH variable
- sonar-scanner --help
- (alternatively using sonarqube-scanner (NodeJS))

install SonarQube demo instance

- Docker (docker pull sonarqube)
- or manually

SonarQube should run on port 9000 by default (docker run -p 9000:9000 sonarqube)

setup a new project

start SonarQube

```
2019.08.01 12:51:34 INFO ce[][o.s.c.c.CePluginRepository] Load plugins
2019.08.01 12:51:35 INFO ce[][o.s.c.c.ComputeEngineContainerImpl] Running Community edition
2019.08.01 12:51:35 INFO ce[][o.s.ce.app.CeServer] Compute Engine is operational
2019.08.01 12:51:36 INFO app[][o.s.a.SchedulerImpl] Process[ce] is up
2019.08.01 12:51:36 INFO app[][o.s.a.SchedulerImpl] SonarQube is up
```

create config file

```
sonar-project.properties *

sonar-project.properties

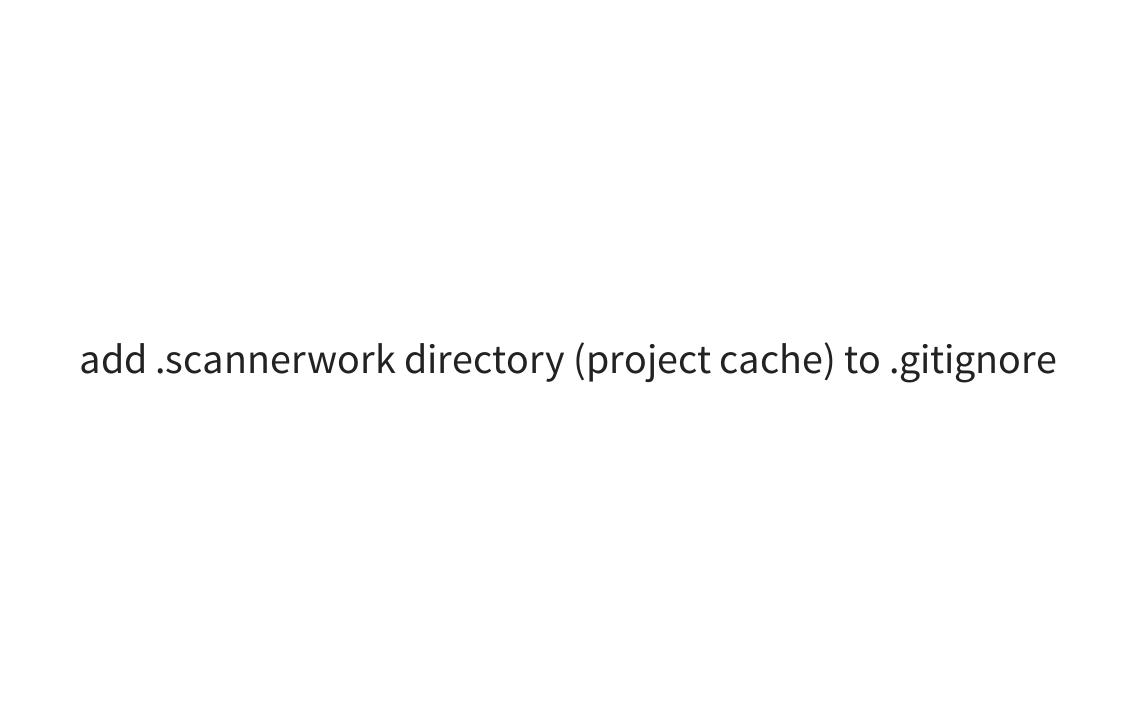
sonar.projectKey=test

#sonar.projectName=test

#sonar.projectVersion=1.0

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```

projectKey is required, everything else is optional



run sonar-scanner in project

check results



Read documentation

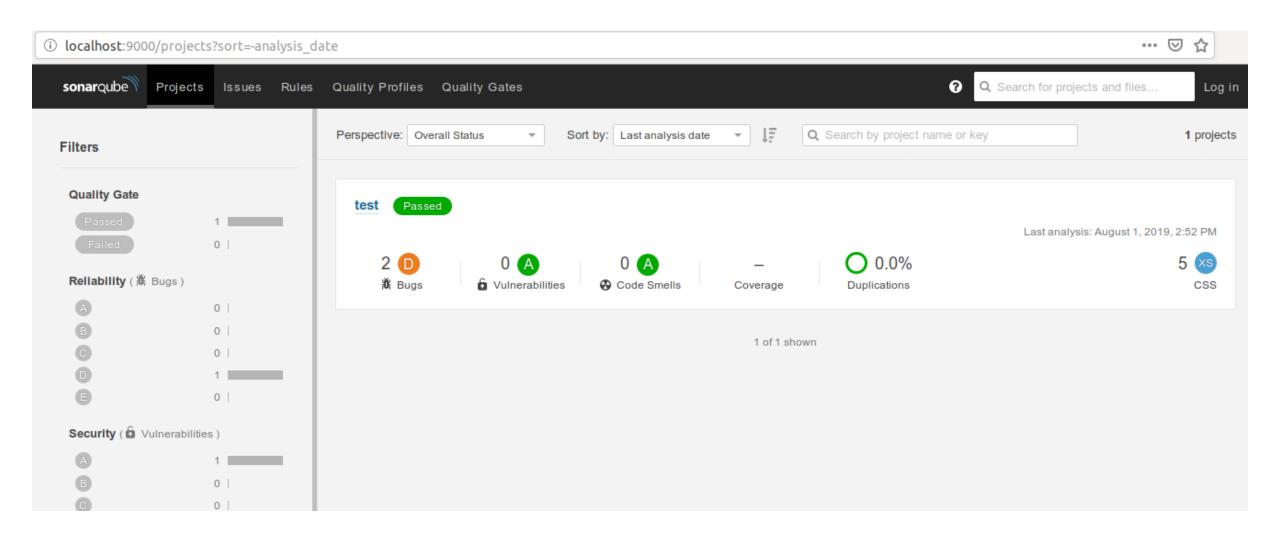
Log in

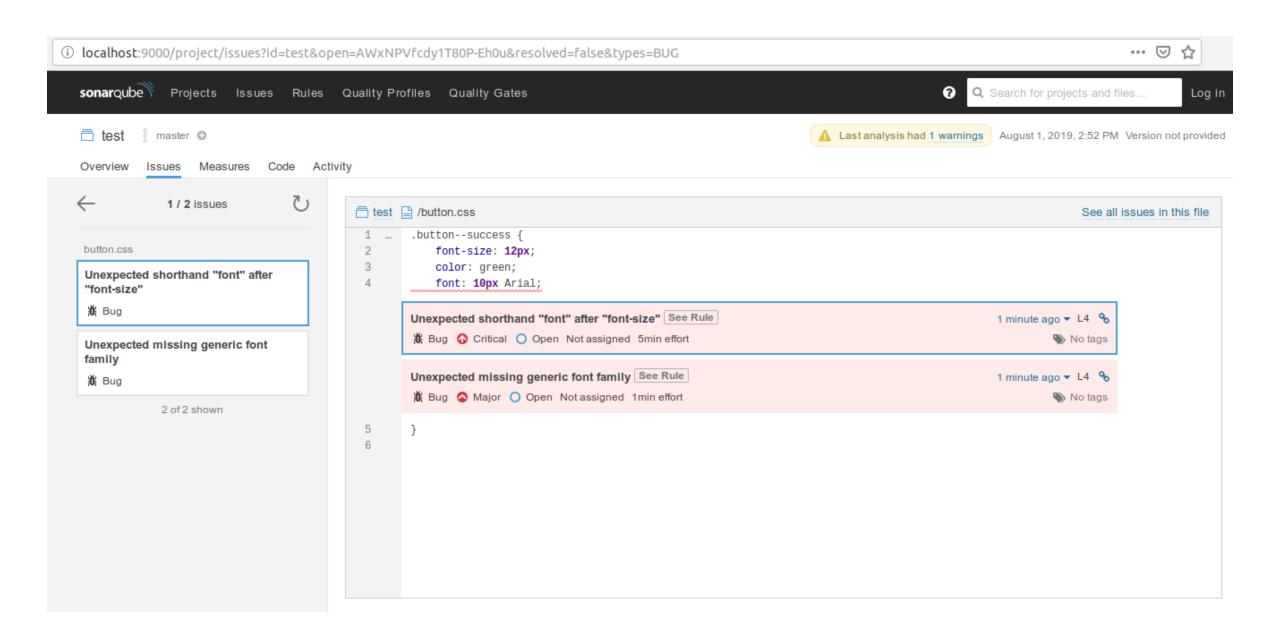
Code Smells

Security Hotspots

Projects Analyzed

demo login is admin / admin





many default rules and rule sets

3400+ Static Analysis Rules across 27 programming languages

Carefully annotated and continuously refined

thanks for your attention!