MET Sonarqube and SonarLint Moderne Softwareentwicklung

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1. Installation

1.1 Sonarqube

sonar.path.temp=/var/sonarqube/temp

For this task, I chose Sonarqube and Sonarlint. First of all, I downloaded Sonarqube and I followed this installation process from this site

<u>https://docs.sonarqube.org/latest/setup/install-server/</u>. I had to do some configuration and edited sonar.properties as it is written in the documentation.

```
# By default, ports will be used on all IP addresses asso

sonar.web.hgst=192.168.0.1

sonar.web.port=80

sonar.web.context=/sonarqube

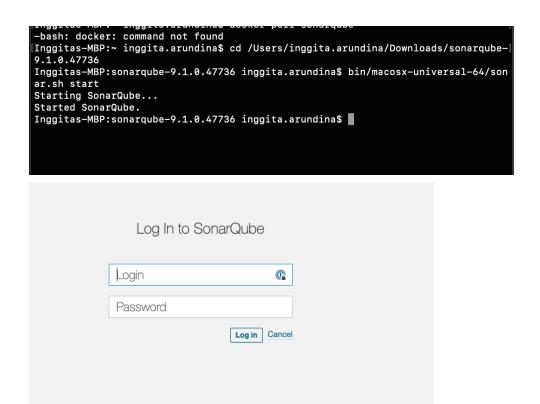
# Web context. When set, it must start with forward slash

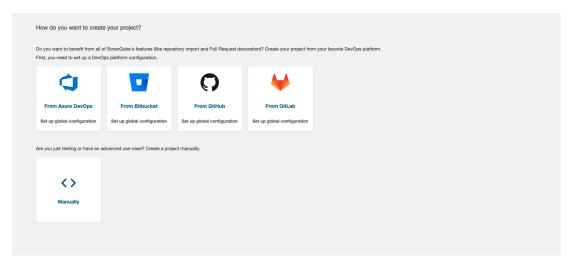
# The default value is root context (empty value).

# Can be absolute or relative to installation directory.

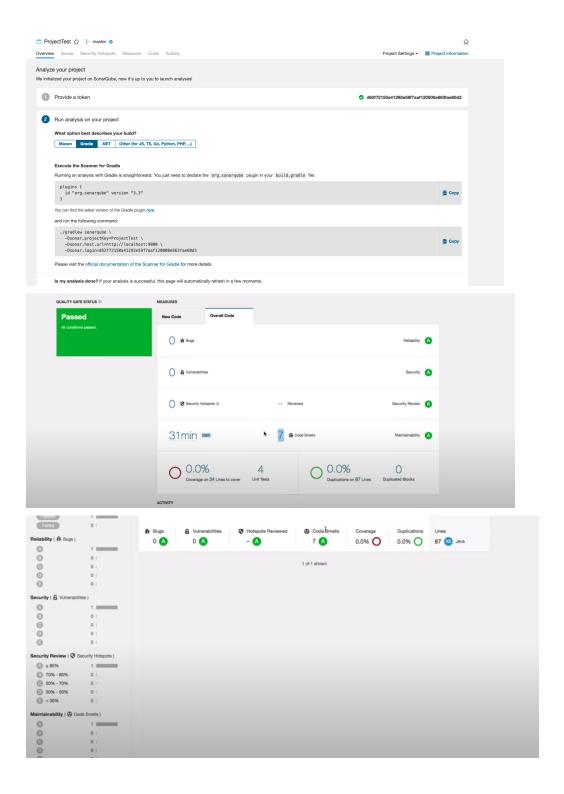
# Defaults are respectively <installation home>/data and <install sonar.path.data=/var/sonarqube/data
```

Once I finished, I started the server by running this command on my terminal "bin/macosx-universal-64/sonar.sh start". Then, I could browse on the browser http://localhost:9000/ and login as default in admin/admin





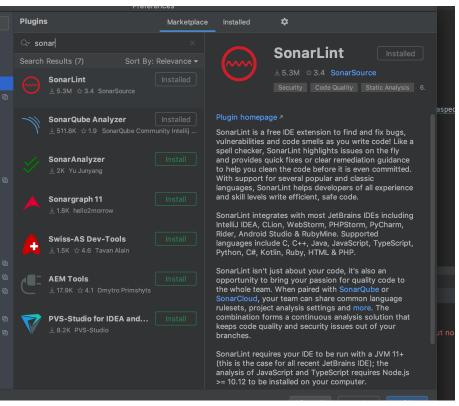
I selected manually and could create a new project which I named ProjectTest. The installation run smoothly and it was working fine. I connected to a dummy project using Gradle that contains only a few classes. When I run it, it returns 0 bugs and 7 code smells. Because it is only an easy project, that's why it doesn't have a lot of reports in the dashboard.

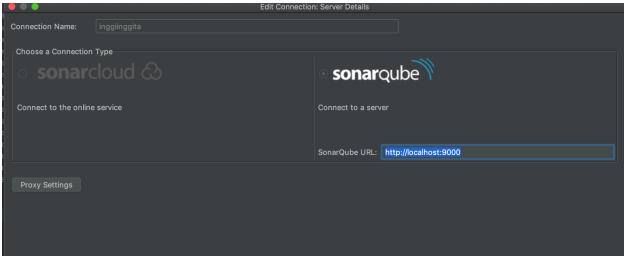


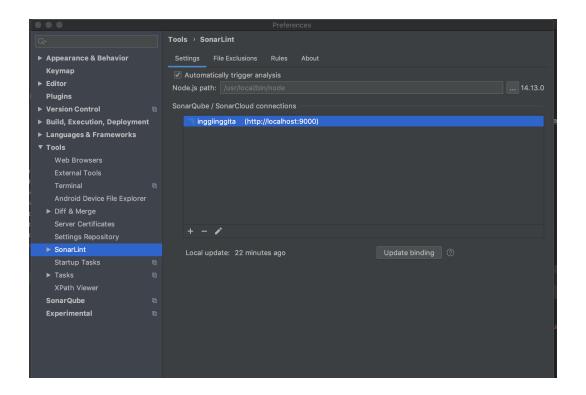
1.2. Sonarlint

During integration, I found out there is a plugin that can be connected to IntelliJ https://www.sonarlint.org/intellij . I already have an automation project(Maven Project by using Selenium/Appium for building end-to-end testing for Web and an Android app) in my

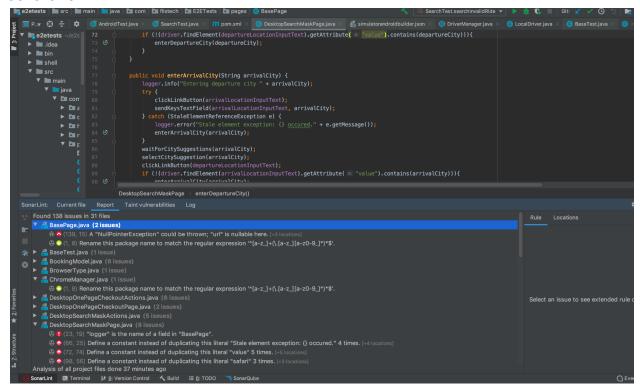
IntelliJ file. So I tried it out for this tool too. First I needed to go to project preferences and go to settings. There I added plugins SonarLint. After that, I selected SonarLint under tools and chose Sonarqube to my localhost http://localhost:9000. Then I copy-pasted the token that I got on the Sonarqube dashboard as I explained in chapter 1.1.







After my project is integrated with SonarLint, then I ran the test by tapping Analyze > Analyze All Files with SonarLint. And I was surprised as I got a lot of reports from Sonarlint as follows:



2. Conclusion

I personally prefer Sonarlint that is integrated by plugin directly to IntelliJ. The reason because I would prefer to see the report directly on my code. I don't want to have another dashboard to see my code analysis. As I am doing my automation project, I need an emulator, selenium/appium dashboard, and terminal to connect to my project. If I had another dashboard it would give more complexity to work on my project:) So, I prefer to use Sonarlint for my code analysis. And this is something that I want to integrate into all the projects that I have. I am glad that I found this tool. Very useful and easy to integrate.