A diagram of a computer software

AI-generated content may be incorrect.

***SonarQube server***

* Web server
  + Developers, managers to browse quality snapshots
  + Facilitate configuration of SonarQube instance
* Search server
  + Powered by elastic search
* Compute engine
  + Takes care of processing code analysis report
  + Saving the analysis report in database

***SonarQube database***

* Only one instance exists
* Supports Oracle, MySQL, MSSQL, and Postgre
* Comes with built in database for testing purpose
* Stores quality snapshots, views, rules, gateways, etc…

***Plugins***

Comes with multiple builtin plugins for:

* Language analysis
* SCM (Source Code Management) integration
* Authentication and authorization integration
* Governance and external quality tools integration
* Custom plugins as per organization requirements

***Sonar scanner***

Stand alone sonar scanner

Sonar scanner integration with

* Maven
* Ant
* Gradle
* MSBuild

Integrates and gets triggered with CI Servers like Jenkins

***Code quality introduction***

* Will be part of code testing in Continuous integration
* Gives metrics on Code quality and standards
* Integrates with IDEs

***Seven Axis of Quality***

* Potential bugs
* Coding rules
* Tests
* Duplications
* Comments
* Architecture and design
* Complexity