

EdgeX DevOps Working Group

Cost Analysis & Comparison of Code Coverage Tools Codecov.io / SonarQube

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Codecov.io

- There was some confusion on the pricing model but the cost is for private repos only.
- EdgeX doesn't have any private repos but would occur costs if we created some.
 - 78 public repos in edgexfoundry
 - 35 public repos in edgexfoundry-holding
- The LF has GitHub accounts associated with EdgeX that can be used
- The LF would have to set up the repos in Codecov.io using these github accounts
- Additional work for managing secrets on the repos. The LF infrastructure team would need to solve storing a separate secret for each repo that can be inserted at build time.
- Additional work needed to scope out converting existing tests into codecov.io format to view

SonarQube



WHY US

PRODUCTS

PLANS AND PRICING


CUSTOMERS

RESOURCES

COMPANY


BLOG

Choose your plan




Community Edition

Used and loved by 85,000 companies

- ✓ SonarQube & 60+ plugins
- ✓ SonarLint
- ✓ 15 languages 

Free & Open Source


[SEE MORE](#)



Developer Edition


Built for developers by developers

Community Edition plus:

- ✓ Branch Analysis
- ✓ Pull Request Analysis
- ✓ Detection of injection flaws
- ✓ SonarLint notifications
- ✓ 21 languages 

Starts at \$150


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Enterprise Edition


Designed for the Enterprise that values Quality

Developer Edition plus:

- ✓ Portfolio management
- ✓ Executive reporting
- ✓ Project transfer
- ✓ 26 languages 

Starts at \$20,000

[SEE MORE](#)



Data Center Edition


Designed for High Availability

Enterprise Edition plus:

- ✓ Component redundancy
- ✓ Data integrity


Starts at \$130,000

[SEE MORE](#)

✓ 15 languages 















Java, JavaScript, C#, TypeScript, Kotlin, Ruby, Go, Scala, Flex, Python, PHP, HTML, CSS, XML & VB.NET

Free & Open Source

✓ 21 languages 

Java, JavaScript, C#, TypeScript, Kotlin, Ruby, Go, Scala, Flex, Python, PHP, HTML, CSS, XML, VB.NET, C/C++, Objective-C, PL/SQL, ABAP, TSQL & Swift

High Level Comparison of Code Coverage Tools

| | | |
|---|--|--|
| |  <p>SonarQube </p> <p>Code Review</p> <p>Follow</p> <p>Stacks 303</p> <p>I Use This</p> <p>Fans: 225, Jobs: 51, Votes: 10</p> |  <p>Codecov </p> <p>Code Coverage</p> <p>Follow</p> <p>Stacks 193</p> <p>I Use This</p> <p>Fans: 158, Jobs: 5, Votes: 63</p> |
| Hacker News, Reddit, Stack Overflow Stats |  -  94  8.96K |  2  14  26 |
| GitHub Stats |   3.34K  981  about 20 hours ago | No public GitHub repository stats available |
| Description | <p>What is SonarQube?</p> <p>SonarQube provides an overview of the overall health of your source code and even more importantly, it highlights issues found on new code. With a Quality Gate set on your project, you will simply fix the Leak and start mechanically improving.</p> | <p>What is Codecov?</p> <p>Our patrons rave about our elegant coverage reports, integrated pull request comments, interactive commit graphs, our Chrome plugin and security.</p> |

What are some alternatives to SonarQube and Codecov?

- **ESLint** - The fully pluggable JavaScript code quality tool
- **Code Climate** - Automated Ruby Code Review
- **Codacy** - Automated Code Review
- **RuboCop** - A Ruby static code analyzer, based on the community Ruby style guide







Why do developers choose...?



| | |
|---|---|
| <p>Pros</p> <p>Why do developers choose SonarQube?</p> <ul style="list-style-type: none">▲ 8 Tracks code complexity and smell trends▲ 2 IDE Integration <p>Why do you like SonarQube?</p> <input type="text" value="Why do you like SonarQube?"/> <input type="button" value="Submit"/> | <p>Why do developers choose Codecov?</p> <ul style="list-style-type: none">▲ 15 More stable than coveralls▲ 13 Easy setup▲ 9 They reply their users▲ 8 GitHub integration▲ 6 Easy setup,great ui▲ 2 Cool diagrams▲ 2 Golang support▲ 2 Easily see per-commit coverage in GitHub▲ 1 Steve is the man▲ 1 Free for public repositories <p>Why do you like Codecov?</p> <input type="text" value="Why do you like Codecov?"/> <input type="button" value="Submit"/> |
| <p>Cons</p> <p>What are the cons of using SonarQube?</p> <p><i>No Cons submitted yet for SonarQube</i></p> <p>Downsides of SonarQube?</p> <input type="text" value="What don't you like about SonarQube?"/> <input type="button" value="Submit"/> | <p>What are the cons of using Codecov?</p> <ul style="list-style-type: none">▲ 1 GitHub org / team integration is a little too tight <p>Downsides of Codecov?</p> <input type="text" value="What don't you like about Codecov?"/> <input type="button" value="Submit"/> |

Integrations

SonarQube








SONARQUBE INTEGRATES WITH

| | |
|--|---|
|  Jenkins An extendable open source continuous |  Travis CI A hosted continuous integration service for |
|  Apache Maven Apache build manager for Java projects. |  TeamCity TeamCity is an ultimate Continuous Integration |
|  Appveyor Continuous Integration and Deployment service |  Apache Ant Java based build tool |

| |
|--|
|  Gradle A powerful build system for the JVM |
|  Bamboo Tie automated builds, tests, and releases |

Codecov

CODECOV INTEGRATES WITH

| | | |
|--|--|---|
|  GitHub Powerful collaboration, review, and code |  Jenkins An extendable open source continuous |  Bitbucket One place to plan projects, collaborate on code, test |
|  GitLab Open source self-hosted Git management software |  Heroku Build, deliver, monitor and scale web apps and APIs |  CircleCI CircleCI's continuous integration and delivery |
|  HipChat Supercharge team collaboration with group | | |

Next Steps