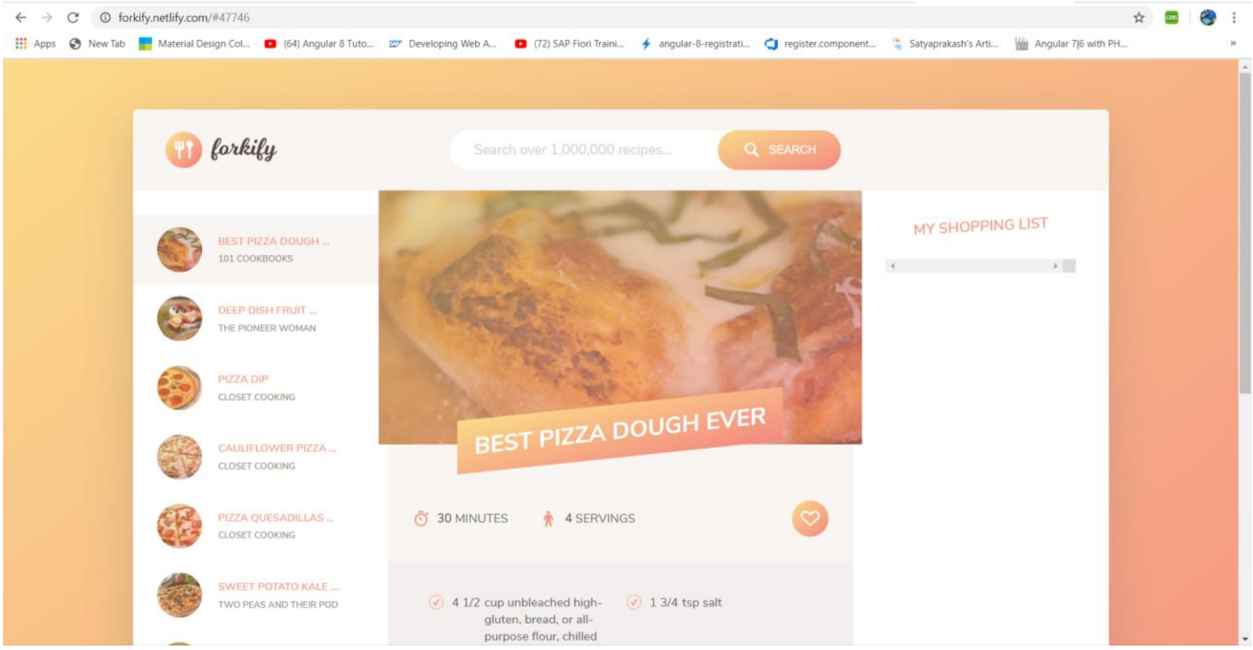
Exercise 6: Software Scanning Tools

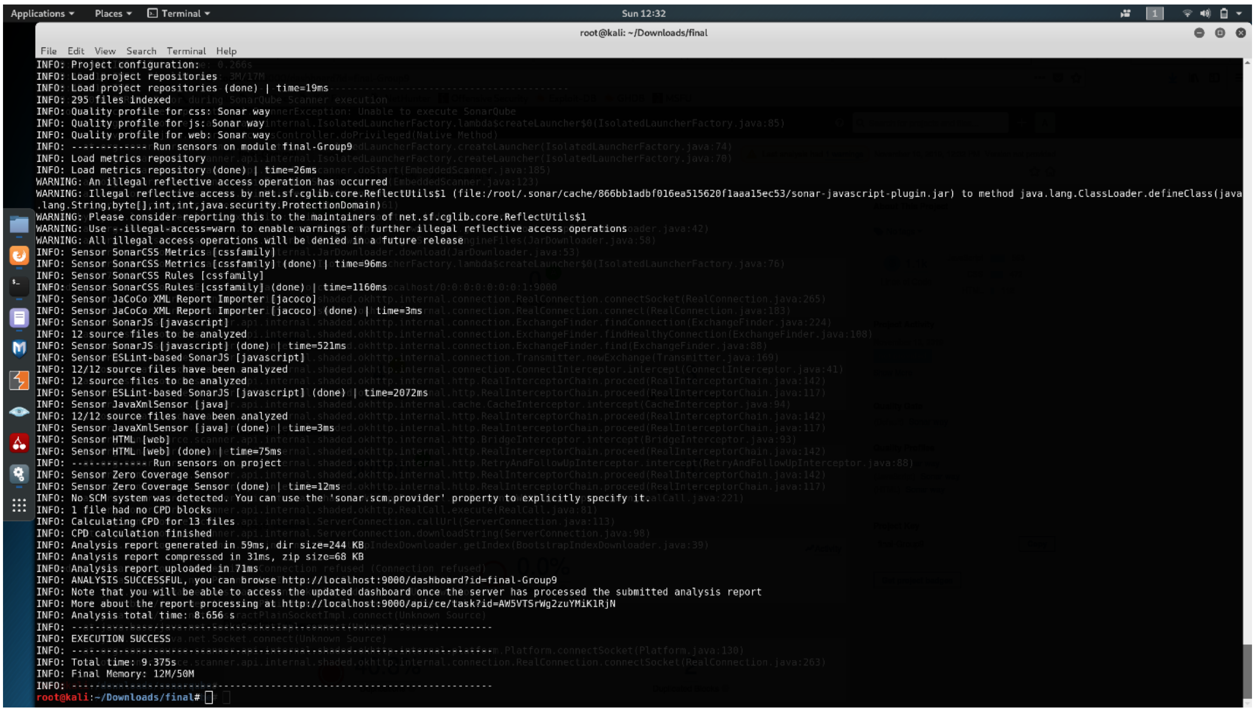
SonarQube:

It is a static software scanning tool. It is a open source platform developed by SonarSource for continuous inspection of code quality to perform automatic reviews with static analysis of code to detect issues. SonarQube offers reports on duplicated code, coding standards, unit tests, code coverage, code complexity, comments, bugs, and security vulnerabilities.

We have used SonarQube for software scanning and selected “Forkify” project for scanning which is publicly hosted.

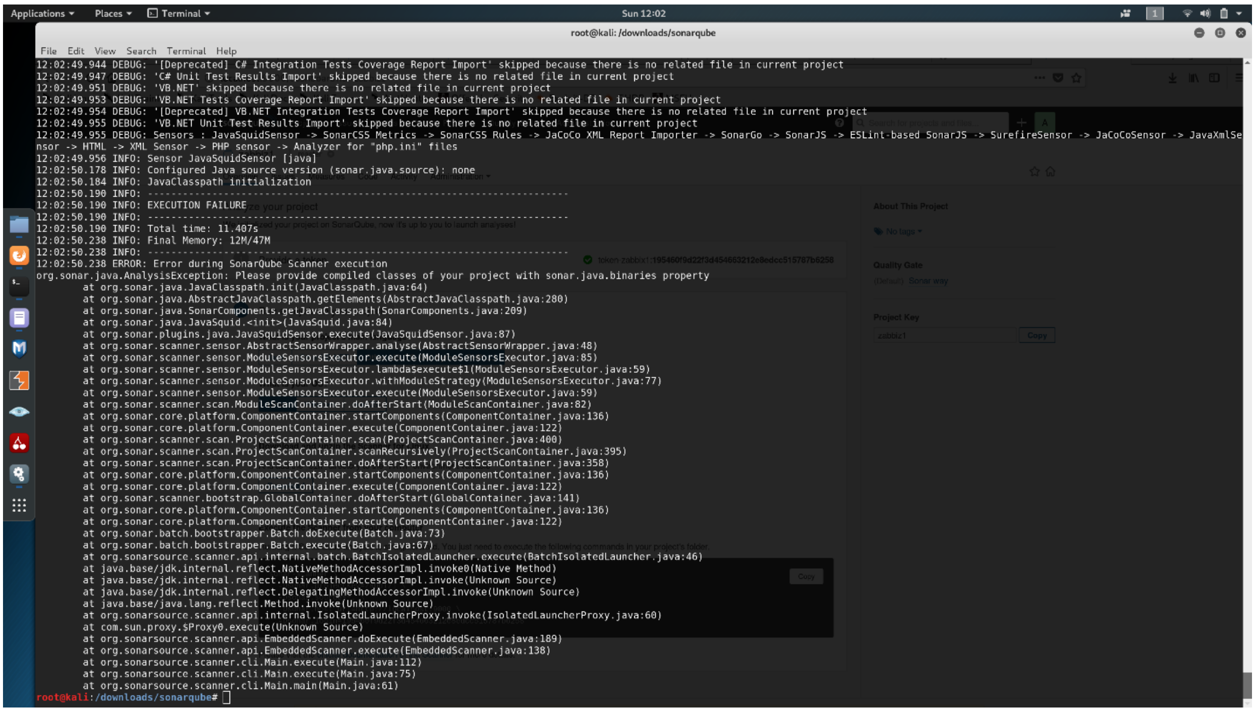


We had installed Docker then SonarQube and SonarQube runner on Linux.



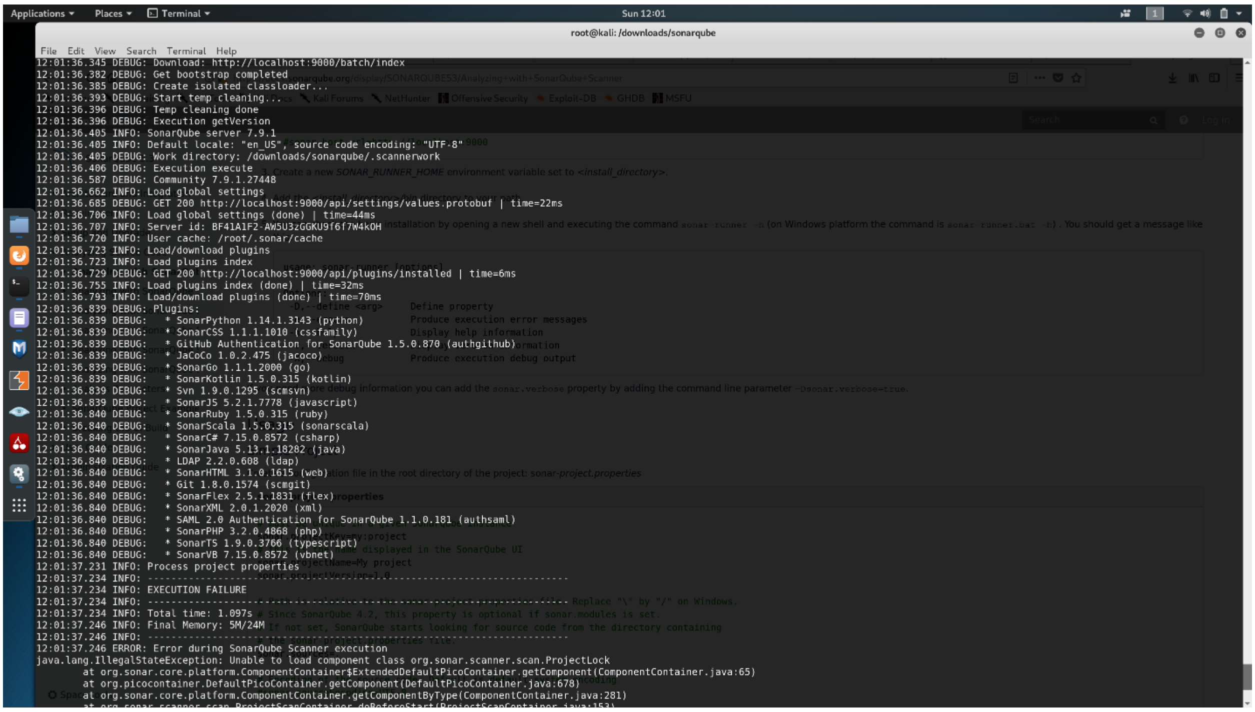
Applications
Places
Terminal
Sun 12:32
root@kali: ~/Downloads/final
File Edit View Search Terminal Help

```
INFO: Project configuration:
INFO: Load project repositories
INFO: Load project repositories (done) | time=19ms
INFO: 295 files indexed
INFO: Quality profile for css: Sonar way
INFO: Quality profile for js: Sonar way
INFO: Quality profile for web: Sonar way
INFO: ------------- Run sensors on module final-Group9
INFO: Load metrics repository
INFO: Load metrics repository (done) | time=26ms
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by net.sf.cglib.core.ReflectUtils$1 (file:/root/.sonar/cache/866bb1adbf016ea515620f1aaa15ec53/sonar-javascript-plugin.jar) to method java.lang.ClassLoader.defineClass(java
.lang.String,byte[],int,int,java.security.ProtectionDomain)
WARNING: Please consider reporting this to the maintainers of net.sf.cglib.core.ReflectUtils$1
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
INFO: Sensor SonarCSS Metrics [cssfamily]
INFO: Sensor SonarCSS Metrics [cssfamily] (done) | time=96ms
INFO: Sensor SonarCSS Rules [cssfamily]
INFO: Sensor SonarCSS Rules [cssfamily] (done) | time=1160ms
INFO: Sensor JaCoCo XML Report Importer [jacoco]
INFO: Sensor JaCoCo XML Report Importer [jacoco] (done) | time=3ms
INFO: Sensor SonarJS [javascript]
INFO: 12 source files to be analyzed
INFO: Sensor SonarJS [javascript] (done) | time=521ms
INFO: Sensor ESLint-based SonarJS [javascript]
INFO: 12/12 source files have been analyzed
INFO: 12 source files to be analyzed
INFO: Sensor ESLint-based SonarJS [javascript] (done) | time=2072ms
INFO: Sensor JavaXmlSensor [java]
INFO: 12/12 source files have been analyzed
INFO: Sensor JavaXmlSensor [java] (done) | time=3ms
INFO: Sensor HTML [web]
INFO: Sensor HTML [web] (done) | time=75ms
INFO: ------------- Run sensors on project
INFO: Sensor Zero Coverage Sensor
INFO: Sensor Zero Coverage Sensor (done) | time=12ms
INFO: No SCM system was detected. You can use the 'sonar.scm.provider' property to explicitly specify it.
INFO: 1 file had no CPD blocks
INFO: Calculating CPD for 13 files
INFO: CPD calculation finished
INFO: Analysis report generated in 59ms, dir size=244 KB
INFO: Analysis report compressed in 31ms, zip size=68 KB
INFO: Analysis report uploaded in 71ms
INFO: ANALYSIS SUCCESSFUL, you can browse http://localhost:9000/dashboard?id=final-Group9
INFO: Note that you will be able to access the updated dashboard once the server has processed the submitted analysis report
INFO: More about the report processing at http://localhost:9000/api/ce/task?id=AW5VTSrWg2zuYMiK1RjN
INFO: Analysis total time: 8.656 s
INFO: ------------------------------------------------------------------------
INFO: EXECUTION SUCCESS
INFO: ------------------------------------------------------------------------
INFO: Total time: 9.375s
INFO: Final Memory: 12M/50M
INFO: ------------------------------------------------------------------------
root@kali:~/Downloads/final# 
```

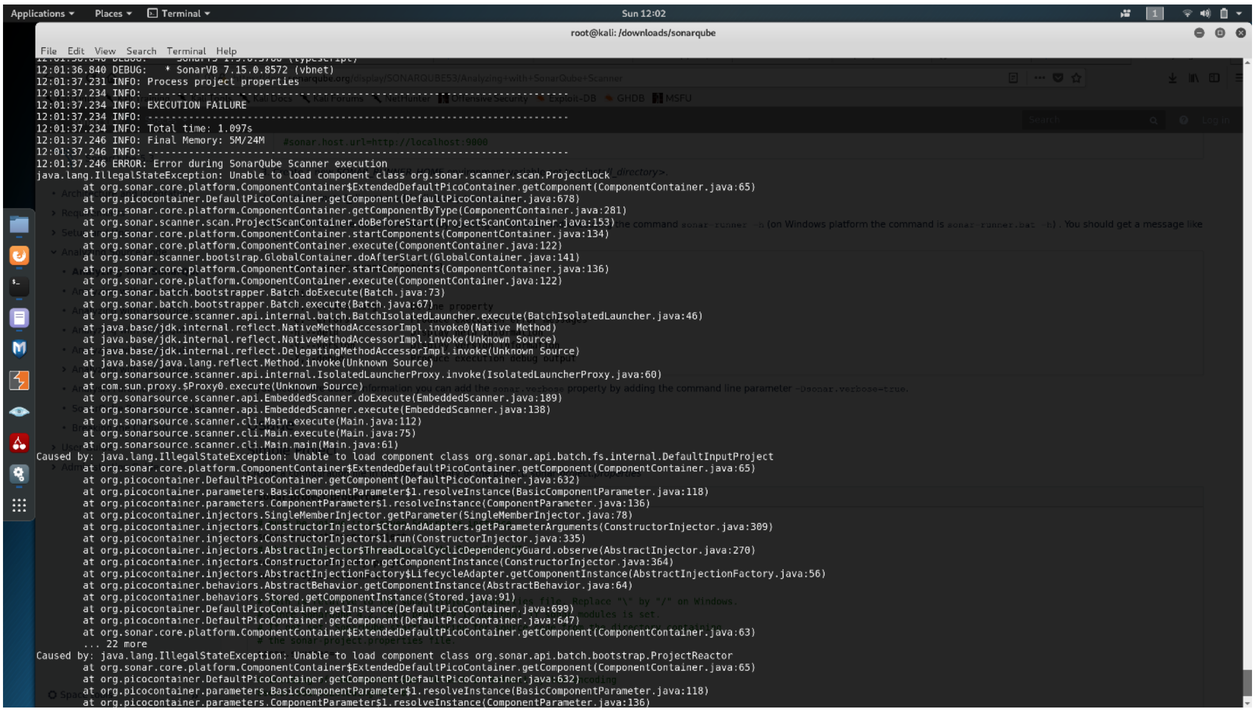


Applications
Places
Terminal
Sun 12:02
root@kali: /downloads/sonarqube
File Edit View Search Terminal Help

```
12:02:49.944 DEBUG: '[Deprecated] C# Integration Tests Coverage Report Import' skipped because there is no related file in current project
12:02:49.947 DEBUG: 'C# Unit Test Results Import' skipped because there is no related file in current project
12:02:49.951 DEBUG: 'VB.NET' skipped because there is no related file in current project
12:02:49.953 DEBUG: 'VB.NET Tests Coverage Report Import' skipped because there is no related file in current project
12:02:49.954 DEBUG: '[Deprecated] VB.NET Integration Tests Coverage Report Import' skipped because there is no related file in current project
12:02:49.955 DEBUG: 'VB.NET Unit Test Results Import' skipped because there is no related file in current project
12:02:49.955 DEBUG: Sensors : JavaSquidSensor -> SonarCSS Metrics -> SonarCSS Rules -> JaCoCo XML Report Importer -> SonarGo -> SonarJS -> ESLint-based SonarJS -> SurefireSensor -> JaCoCoSensor -> JavaXmlSe
nsor -> HTML -> XML Sensor -> PHP sensor -> Analyzer for "php.ini" files
12:02:49.956 INFO: Sensor JavaSquidSensor [java]
12:02:50.178 INFO: Configured Java source version (sonar.java.source): none
12:02:50.184 INFO: JavaClasspath initialization
12:02:50.190 INFO: ------------------------------------------------------------------------
12:02:50.190 INFO: EXECUTION FAILURE
12:02:50.190 INFO: ------------------------------------------------------------------------
12:02:50.190 INFO: Total time: 11.407s
12:02:50.238 INFO: Final Memory: 12M/47M
12:02:50.238 INFO: ------------------------------------------------------------------------
12:02:50.238 ERROR: Error during SonarQube Scanner execution
org.sonar.java.AnalysisException: Please provide compiled classes of your project with sonar.java.binaries property
        at org.sonar.java.JavaClasspath.init(JavaClasspath.java:64)
        at org.sonar.java.AbstractJavaClasspath.getElements(AbstractJavaClasspath.java:280)
        at org.sonar.java.SonarComponents.getJavaClasspath(SonarComponents.java:209)
        at org.sonar.java.JavaSquid.<init>(JavaSquid.java:84)
        at org.sonar.plugins.java.JavaSquidSensor.execute(JavaSquidSensor.java:87)
        at org.sonar.scanner.sensor.AbstractSensorWrapper.analyse(AbstractSensorWrapper.java:48)
        at org.sonar.scanner.sensor.ModuleSensorsExecutor.execute(ModuleSensorsExecutor.java:85)
        at org.sonar.scanner.sensor.ModuleSensorsExecutor.lambda$execute$1(ModuleSensorsExecutor.java:59)
        at org.sonar.scanner.sensor.ModuleSensorsExecutor.withModuleStrategy(ModuleSensorsExecutor.java:77)
        at org.sonar.scanner.sensor.ModuleSensorsExecutor.execute(ModuleSensorsExecutor.java:59)
        at org.sonar.scanner.scan.ModuleScanContainer.doAfterStart(ModuleScanContainer.java:82)
        at org.sonar.core.platform.ComponentContainer.startComponents(ComponentContainer.java:136)
        at org.sonar.core.platform.ComponentContainer.execute(ComponentContainer.java:122)
        at org.sonar.scanner.scan.ProjectScanContainer.scan(ProjectScanContainer.java:400)
        at org.sonar.scanner.scan.ProjectScanContainer.scanRecursively(ProjectScanContainer.java:395)
        at org.sonar.scanner.scan.ProjectScanContainer.doAfterStart(ProjectScanContainer.java:358)
        at org.sonar.core.platform.ComponentContainer.startComponents(ComponentContainer.java:136)
        at org.sonar.core.platform.ComponentContainer.execute(ComponentContainer.java:122)
        at org.sonar.scanner.bootstrap.GlobalContainer.doAfterStart(GlobalContainer.java:141)
        at org.sonar.core.platform.ComponentContainer.startComponents(ComponentContainer.java:136)
        at org.sonar.core.platform.ComponentContainer.execute(ComponentContainer.java:122)
        at org.sonar.batch.bootstrapper.Batch.doExecute(Batch.java:73)
        at org.sonar.batch.bootstrapper.Batch.execute(Batch.java:67)
        at org.sonarsource.scanner.api.internal.batch.BatchIsolatedLauncher.execute(BatchIsolatedLauncher.java:46)
        at java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
        at java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(Unknown Source)
        at java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(Unknown Source)
        at java.base/java.lang.reflect.Method.invoke(Unknown Source)
        at org.sonarsource.scanner.api.internal.IsolatedLauncherProxy.invoke(IsolatedLauncherProxy.java:60)
        at com.sun.proxy.$Proxy0.execute(Unknown Source)
        at org.sonarsource.scanner.api.EmbeddedScanner.doExecute(EmbeddedScanner.java:189)
        at org.sonarsource.scanner.api.EmbeddedScanner.execute(EmbeddedScanner.java:138)
        at org.sonarsource.scanner.cli.Main.execute(Main.java:112)
        at org.sonarsource.scanner.cli.Main.execute(Main.java:75)
        at org.sonarsource.scanner.cli.Main.main(Main.java:61)
root@kali:/downloads/sonarqube# 
```


Applications
Places
Terminal
Sun 12:01
root@kali: /downloads/sonarqube
File Edit View Search Terminal Help

```
12:01:36.345 DEBUG: Download: http://localhost:9000/batch/index
12:01:36.382 DEBUG: Get bootstrap completed
12:01:36.385 DEBUG: Create isolated classloader...
12:01:36.393 DEBUG: Start temp cleaning...
12:01:36.396 DEBUG: Temp cleaning done
12:01:36.396 DEBUG: Execution getVersion
12:01:36.405 INFO: SonarQube server 7.9.1
12:01:36.405 INFO: Default locale: "en_US", source code encoding: "UTF-8"
12:01:36.405 DEBUG: Work directory: /downloads/sonarqube/.scannerwork
12:01:36.406 DEBUG: Execution execute
12:01:36.587 DEBUG: Community 7.9.1.27448
12:01:36.662 INFO: Load global settings
12:01:36.685 DEBUG: GET 200 http://localhost:9000/api/settings/values.protobuf | time=22ms
12:01:36.706 INFO: Load global settings (done) | time=44ms
12:01:36.707 INFO: Server id: BF41A1F2-AW5U3zGGKU9f6f7W4kOH
12:01:36.720 INFO: User cache: /root/.sonar/cache
12:01:36.723 INFO: Load/download plugins
12:01:36.723 INFO: Load plugins index
12:01:36.729 DEBUG: GET 200 http://localhost:9000/api/plugins/installed | time=6ms
12:01:36.755 INFO: Load plugins index (done) | time=32ms
12:01:36.793 INFO: Load/download plugins (done) | time=70ms
12:01:36.839 DEBUG: Plugins:
12:01:36.839 DEBUG:   * SonarPython 1.14.1.3143 (python)
12:01:36.839 DEBUG:   * SonarCSS 1.1.1.1010 (cssfamily)
12:01:36.839 DEBUG:   * GitHub Authentication for SonarQube 1.5.0.870 (authgithub)
12:01:36.839 DEBUG:   * JaCoCo 1.0.2.475 (jacoco)
12:01:36.839 DEBUG:   * SonarGo 1.1.1.2000 (go)
12:01:36.839 DEBUG:   * SonarKotlin 1.5.0.315 (kotlin)
12:01:36.839 DEBUG:   * Svn 1.9.0.1295 (scmsvn)
12:01:36.839 DEBUG:   * SonarJS 5.2.1.7778 (javascript)
12:01:36.840 DEBUG:   * SonarRuby 1.5.0.315 (ruby)
12:01:36.840 DEBUG:   * SonarScala 1.5.0.315 (sonarscala)
12:01:36.840 DEBUG:   * SonarC# 7.15.0.8572 (csharp)
12:01:36.840 DEBUG:   * SonarJava 5.13.1.18282 (java)
12:01:36.840 DEBUG:   * LDAP 2.2.0.608 (ldap)
12:01:36.840 DEBUG:   * SonarHTML 3.1.0.1615 (web)
12:01:36.840 DEBUG:   * Git 1.8.0.1574 (scmgit)
12:01:36.840 DEBUG:   * SonarFlex 2.5.1.1831 (flex)
12:01:36.840 DEBUG:   * SonarXML 2.0.1.2020 (xml)
12:01:36.840 DEBUG:   * SAML 2.0 Authentication for SonarQube 1.1.0.181 (authsaml)
12:01:36.840 DEBUG:   * SonarPHP 3.2.0.4868 (php)
12:01:36.840 DEBUG:   * SonarTS 1.9.0.3766 (typescript)
12:01:36.840 DEBUG:   * SonarVB 7.15.0.8572 (vbnet)
12:01:37.231 INFO: Process project properties
12:01:37.234 INFO: ------------------------------------------------------------------------
12:01:37.234 INFO: EXECUTION FAILURE
12:01:37.234 INFO: ------------------------------------------------------------------------
12:01:37.234 INFO: Total time: 1.097s
12:01:37.246 INFO: Final Memory: 5M/24M
12:01:37.246 INFO: ------------------------------------------------------------------------
12:01:37.246 ERROR: Error during SonarQube Scanner execution
java.lang.IllegalStateException: Unable to load component class org.sonar.scanner.scan.ProjectLock
        at org.sonar.core.platform.ComponentContainer$ExtendedDefaultPicoContainer.getComponent(ComponentContainer.java:65)
        at org.picocontainer.DefaultPicoContainer.getComponent(DefaultPicoContainer.java:678)
        at org.sonar.core.platform.ComponentContainer.getComponentByType(ComponentContainer.java:281)
        at org.sonar.scanner.scan.ProjectScanContainer.doBeforeStart(ProjectScanContainer.java:153)
```


Applications
Places
Terminal
Sun 12:02
root@kali: /downloads/sonarqube
File Edit View Search Terminal Help

```
12:01:36.840 DEBUG:   * SonarTS 1.9.0.3766 (typescript)
12:01:36.840 DEBUG:   * SonarVB 7.15.0.8572 (vbnet)
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12:01:37.234 INFO: ------------------------------------------------------------------------
12:01:37.234 INFO: EXECUTION FAILURE
12:01:37.234 INFO: ------------------------------------------------------------------------
12:01:37.234 INFO: Total time: 1.097s
12:01:37.246 INFO: Final Memory: 5M/24M
12:01:37.246 INFO: ------------------------------------------------------------------------
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        at org.picocontainer.DefaultPicoContainer.getComponent(DefaultPicoContainer.java:678)
        at org.sonar.core.platform.ComponentContainer.getComponentByType(ComponentContainer.java:281)
        at org.sonar.scanner.scan.ProjectScanContainer.doBeforeStart(ProjectScanContainer.java:153)
        at org.sonar.core.platform.ComponentContainer.startComponents(ComponentContainer.java:134)
        at org.sonar.core.platform.ComponentContainer.execute(ComponentContainer.java:122)
        at org.sonar.scanner.bootstrap.GlobalContainer.doAfterStart(GlobalContainer.java:141)
        at org.sonar.core.platform.ComponentContainer.startComponents(ComponentContainer.java:136)
        at org.sonar.core.platform.ComponentContainer.execute(ComponentContainer.java:122)
        at org.sonar.batch.bootstrapper.Batch.doExecute(Batch.java:73)
        at org.sonar.batch.bootstrapper.Batch.execute(Batch.java:67)
        at org.sonarsource.scanner.api.internal.batch.BatchIsolatedLauncher.execute(BatchIsolatedLauncher.java:46)
        at java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
        at java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(Unknown Source)
        at java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(Unknown Source)
        at java.base/java.lang.reflect.Method.invoke(Unknown Source)
        at org.sonarsource.scanner.api.internal.IsolatedLauncherProxy.invoke(IsolatedLauncherProxy.java:60)
        at com.sun.proxy.$Proxy0.execute(Unknown Source)
        at org.sonarsource.scanner.api.EmbeddedScanner.doExecute(EmbeddedScanner.java:189)
        at org.sonarsource.scanner.api.EmbeddedScanner.execute(EmbeddedScanner.java:138)
        at org.sonarsource.scanner.cli.Main.execute(Main.java:112)
        at org.sonarsource.scanner.cli.Main.execute(Main.java:75)
        at org.sonarsource.scanner.cli.Main.main(Main.java:61)
Caused by: java.lang.IllegalStateException: Unable to load component class org.sonar.api.batch.fs.internal.DefaultInputProject
        at org.sonar.core.platform.ComponentContainer$ExtendedDefaultPicoContainer.getComponent(ComponentContainer.java:65)
        at org.picocontainer.DefaultPicoContainer.getComponent(DefaultPicoContainer.java:632)
        at org.picocontainer.parameters.BasicComponentParameter$1.resolveInstance(BasicComponentParameter.java:118)
        at org.picocontainer.parameters.ComponentParameter$1.resolveInstance(ComponentParameter.java:136)
        at org.picocontainer.injectors.SingleMemberInjector.getParameter(SingleMemberInjector.java:78)
        at org.picocontainer.injectors.ConstructorInjector$CtorAndAdapters.getParameterArguments(ConstructorInjector.java:309)
        at org.picocontainer.injectors.ConstructorInjector$1.run(ConstructorInjector.java:335)
        at org.picocontainer.injectors.AbstractInjector$ThreadLocalCyclicDependencyGuard.observe(AbstractInjector.java:270)
        at org.picocontainer.injectors.ConstructorInjector.getComponentInstance(ConstructorInjector.java:364)
        at org.picocontainer.injectors.AbstractInjectionFactory$LifecycleAdapter.getComponentInstance(AbstractInjectionFactory.java:56)
        at org.picocontainer.behaviors.AbstractBehavior.getComponentInstance(AbstractBehavior.java:64)
        at org.picocontainer.behaviors.Stored.getComponentInstance(Stored.java:91)
        at org.picocontainer.DefaultPicoContainer.getInstance(DefaultPicoContainer.java:699)
        at org.picocontainer.DefaultPicoContainer.getComponent(DefaultPicoContainer.java:647)
        at org.sonar.core.platform.ComponentContainer$ExtendedDefaultPicoContainer.getComponent(ComponentContainer.java:63)
        ... 22 more
Caused by: java.lang.IllegalStateException: Unable to load component class org.sonar.api.batch.bootstrap.ProjectReactor
        at org.sonar.core.platform.ComponentContainer$ExtendedDefaultPicoContainer.getComponent(ComponentContainer.java:65)
        at org.picocontainer.DefaultPicoContainer.getComponent(DefaultPicoContainer.java:632)
        at org.picocontainer.parameters.BasicComponentParameter$1.resolveInstance(BasicComponentParameter.java:118)
        at org.picocontainer.parameters.ComponentParameter$1.resolveInstance(ComponentParameter.java:136)
```
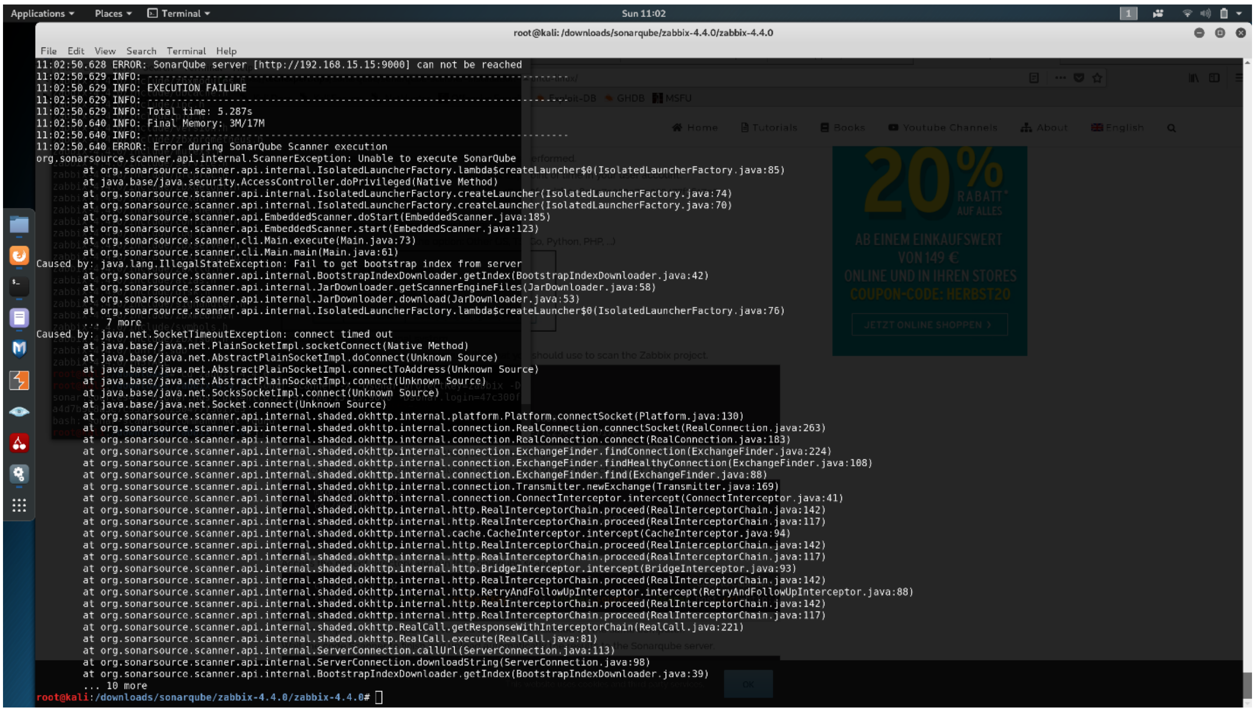
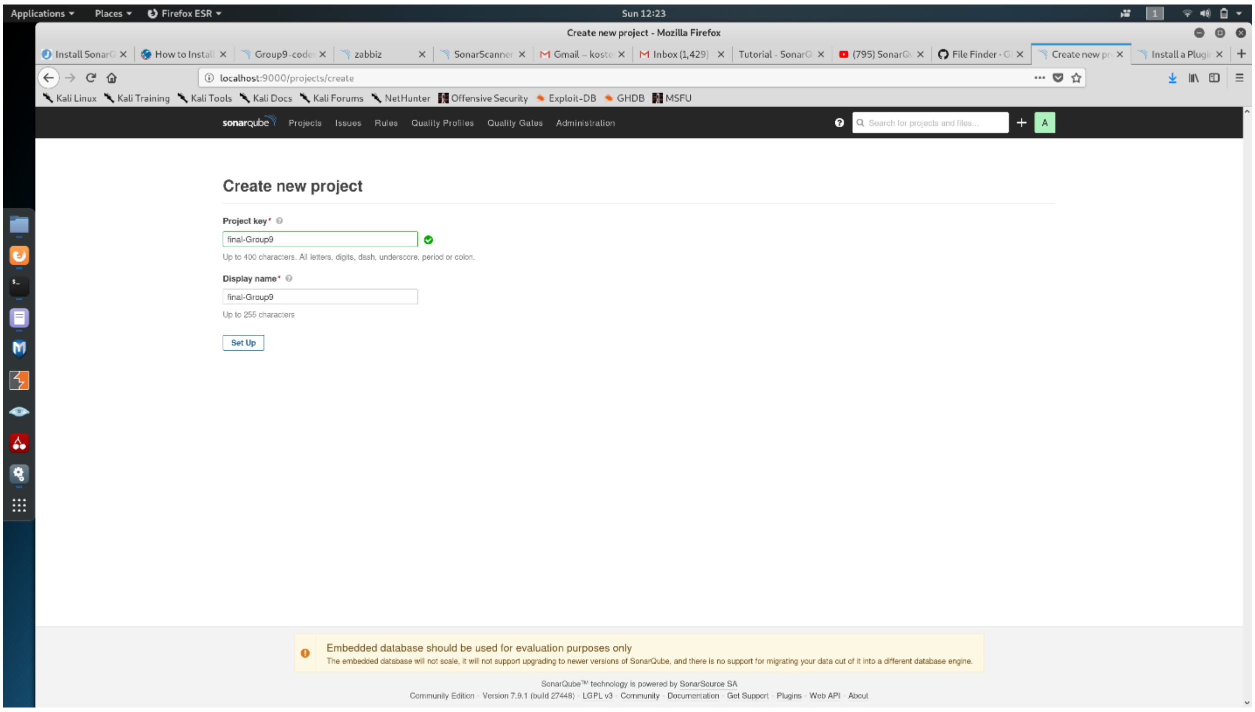


Applications
Places
Terminal
Sun 11:02
root@kali: /downloads/sonarqube/zabbix-4.4.0/zabbix-4.4.0
File Edit View Search Terminal Help

```
11:02:50.628 ERROR: SonarQube server [http://192.168.15.15:9000] can not be reached
11:02:50.629 INFO: ------------------------------------------------------------------------
11:02:50.629 INFO: EXECUTION FAILURE
11:02:50.629 INFO: ------------------------------------------------------------------------
11:02:50.629 INFO: Total time: 5.287s
11:02:50.640 INFO: Final Memory: 3M/17M
11:02:50.640 INFO: ------------------------------------------------------------------------
11:02:50.640 ERROR: Error during SonarQube Scanner execution
org.sonarsource.scanner.api.internal.ScannerException: Unable to execute SonarQube
        at org.sonarsource.scanner.api.internal.IsolatedLauncherFactory.lambda$createLauncher$0(IsolatedLauncherFactory.java:85)
        at java.base/java.security.AccessController.doPrivileged(Native Method)
        at org.sonarsource.scanner.api.internal.IsolatedLauncherFactory.createLauncher(IsolatedLauncherFactory.java:74)
        at org.sonarsource.scanner.api.internal.IsolatedLauncherFactory.createLauncher(IsolatedLauncherFactory.java:70)
        at org.sonarsource.scanner.api.EmbeddedScanner.doStart(EmbeddedScanner.java:185)
        at org.sonarsource.scanner.api.EmbeddedScanner.start(EmbeddedScanner.java:123)
        at org.sonarsource.scanner.cli.Main.execute(Main.java:73)
        at org.sonarsource.scanner.cli.Main.main(Main.java:61)
Caused by: java.lang.IllegalStateException: Fail to get bootstrap index from server
        at org.sonarsource.scanner.api.internal.BootstrapIndexDownloader.getIndex(BootstrapIndexDownloader.java:42)
        at org.sonarsource.scanner.api.internal.JarDownloader.getScannerEngineFiles(JarDownloader.java:58)
        at org.sonarsource.scanner.api.internal.JarDownloader.download(JarDownloader.java:53)
        at org.sonarsource.scanner.api.internal.IsolatedLauncherFactory.lambda$createLauncher$0(IsolatedLauncherFactory.java:76)
        ... 7 more
Caused by: java.net.SocketTimeoutException: connect timed out
        at java.base/java.net.PlainSocketImpl.socketConnect(Native Method)
        at java.base/java.net.AbstractPlainSocketImpl.doConnect(Unknown Source)
        at java.base/java.net.AbstractPlainSocketImpl.connectToAddress(Unknown Source)
        at java.base/java.net.AbstractPlainSocketImpl.connect(Unknown Source)
        at java.base/java.net.SocksSocketImpl.connect(Unknown Source)
        at java.base/java.net.Socket.connect(Unknown Source)
        at org.sonarsource.scanner.api.internal.shaded.okhttp.internal.platform.Platform.connectSocket(Platform.java:130)
        at org.sonarsource.scanner.api.internal.shaded.okhttp.internal.connection.RealConnection.connectSocket(RealConnection.java:263)
        at org.sonarsource.scanner.api.internal.shaded.okhttp.internal.connection.RealConnection.connect(RealConnection.java:183)
        at org.sonarsource.scanner.api.internal.shaded.okhttp.internal.connection.ExchangeFinder.findConnection(ExchangeFinder.java:224)
        at org.sonarsource.scanner.api.internal.shaded.okhttp.internal.connection.ExchangeFinder.findHealthyConnection(ExchangeFinder.java:108)
        at org.sonarsource.scanner.api.internal.shaded.okhttp.internal.connection.ExchangeFinder.find(ExchangeFinder.java:88)
        at org.sonarsource.scanner.api.internal.shaded.okhttp.internal.connection.Transmitter.newExchange(Transmitter.java:169)
        at org.sonarsource.scanner.api.internal.shaded.okhttp.internal.connection.ConnectInterceptor.intercept(ConnectInterceptor.java:41)
        at org.sonarsource.scanner.api.internal.shaded.okhttp.internal.http.RealInterceptorChain.proceed(RealInterceptorChain.java:142)
        at org.sonarsource.scanner.api.internal.shaded.okhttp.internal.http.RealInterceptorChain.proceed(RealInterceptorChain.java:117)
        at org.sonarsource.scanner.api.internal.shaded.okhttp.internal.cache.CacheInterceptor.intercept(CacheInterceptor.java:94)
        at org.sonarsource.scanner.api.internal.shaded.okhttp.internal.http.RealInterceptorChain.proceed(RealInterceptorChain.java:142)
        at org.sonarsource.scanner.api.internal.shaded.okhttp.internal.http.RealInterceptorChain.proceed(RealInterceptorChain.java:117)
        at org.sonarsource.scanner.api.internal.shaded.okhttp.internal.http.BridgeInterceptor.intercept(BridgeInterceptor.java:93)
        at org.sonarsource.scanner.api.internal.shaded.okhttp.internal.http.RealInterceptorChain.proceed(RealInterceptorChain.java:142)
        at org.sonarsource.scanner.api.internal.shaded.okhttp.internal.http.RetryAndFollowUpInterceptor.intercept(RetryAndFollowUpInterceptor.java:88)
        at org.sonarsource.scanner.api.internal.shaded.okhttp.internal.http.RealInterceptorChain.proceed(RealInterceptorChain.java:142)
        at org.sonarsource.scanner.api.internal.shaded.okhttp.internal.http.RealInterceptorChain.proceed(RealInterceptorChain.java:117)
        at org.sonarsource.scanner.api.internal.shaded.okhttp.RealCall.getResponseWithInterceptorChain(RealCall.java:221)
        at org.sonarsource.scanner.api.internal.shaded.okhttp.RealCall.execute(RealCall.java:81)
        at org.sonarsource.scanner.api.internal.ServerConnection.callUrl(ServerConnection.java:113)
        at org.sonarsource.scanner.api.internal.ServerConnection.downloadString(ServerConnection.java:98)
        at org.sonarsource.scanner.api.internal.BootstrapIndexDownloader.getIndex(BootstrapIndexDownloader.java:39)
        ... 10 more
root@kali:/downloads/sonarqube/zabbix-4.4.0/zabbix-4.4.0# 
```

Once all required tools installed. Launched 'localhost:9000' for SonarQube.



Create new project

Project key*

final-Group9 ✓

Up to 400 characters. All letters, digits, dash, underscore, period or colon.

Display name*

final-Group9

Up to 255 characters

Set Up

Embedded database should be used for evaluation purposes only

The embedded database will not scale, it will not support upgrading to newer versions of SonarQube, and there is no support for migrating your data out of it into a different database engine.

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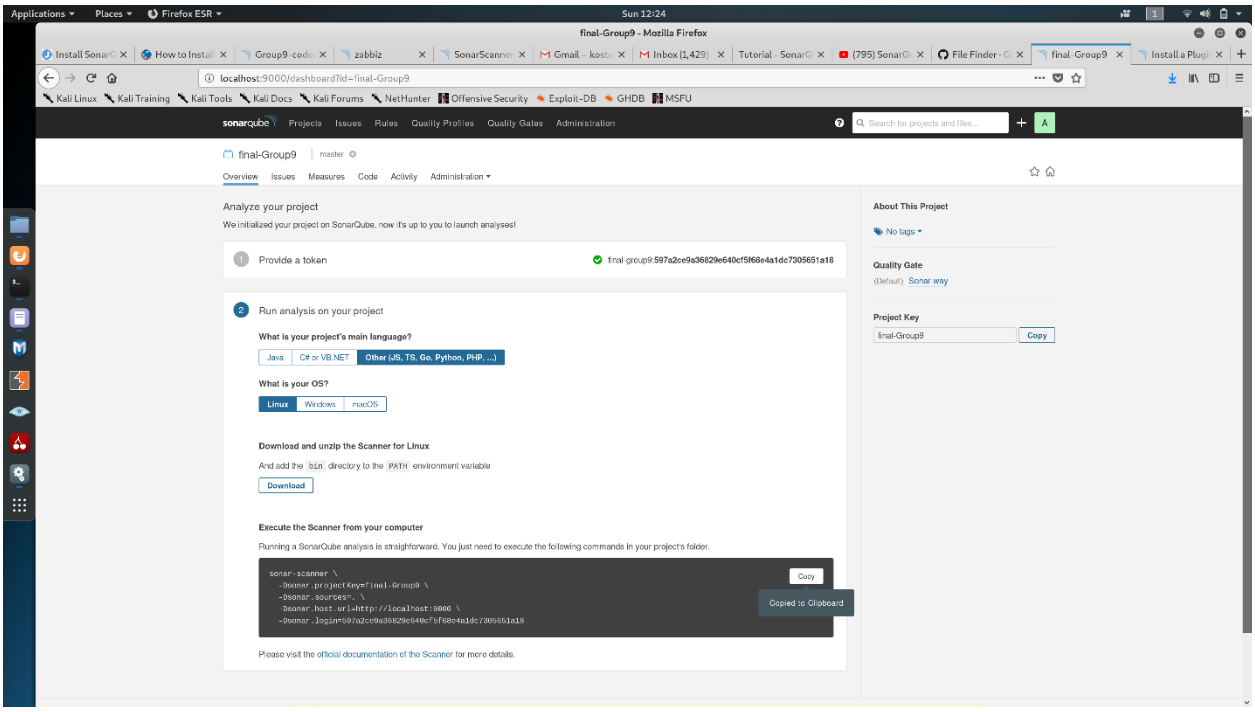
Set up ‘Forkify’ project over sonarqube.



final-Group9 - Mozilla Firefox
localhost:9000/dashboard?id=final-Group9
sonarqube Projects Issues Rules Quality Profiles Quality Gates Administration
final-Group9 master
Overview Issues Measures Code Activity Administration

Analyze your project

We initialized your project on SonarQube, now it's up to you to launch analyses!

1 Provide a token ✓ final-group9:597a2ce9a36829e640cf5f68e4a1dc7305651a18

2 Run analysis on your project

What is your project's main language?

Java | C# or VB.NET | **Other (JS, TS, Go, Python, PHP, ...)**

What is your OS?

Linux | Windows | macOS

Download and unzip the Scanner for Linux

And add the `bin` directory to the `PATH` environment variable

Download

Execute the Scanner from your computer

Running a SonarQube analysis is straighforward. You just need to execute the following commands in your project's folder.

```
sonar-scanner \
  -Dsonar.projectKey=final-Group9 \
  -Dsonar.sources=. \
  -Dsonar.host.url=http://localhost:9000 \
  -Dsonar.login=597a2ce9a36829e640cf5f68e4a1dc7305651a18
```

Copied to Clipboard

Please visit the official documentation of the Scanner for more details.

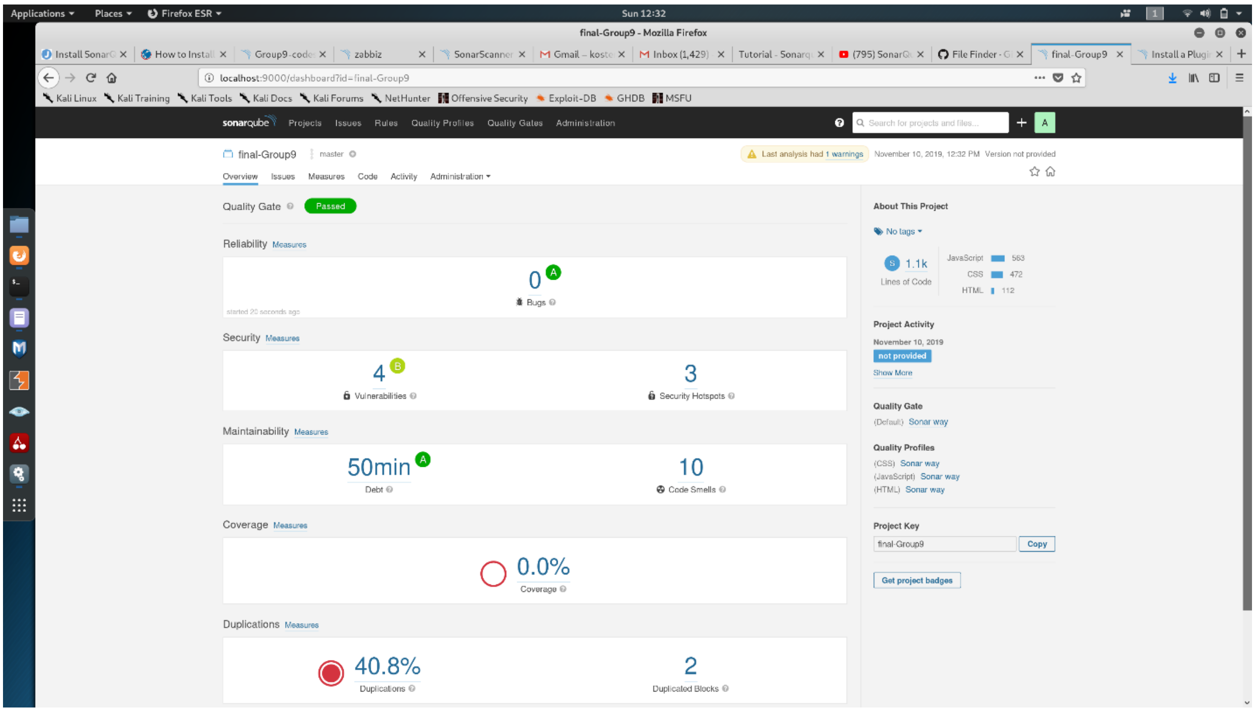
About This Project

No tags

Quality Gate (Default) Sonar way

Project Key: final-Group9

Forkify project report:



final-Group9 - Mozilla Firefox
localhost:9000/dashboard?id=final-Group9
sonarqube Projects Issues Rules Quality Profiles Quality Gates Administration
final-Group9 master
Overview Issues Measures Code Activity Administration

Last analysis had 1 warnings November 10, 2019, 12:32 PM Version not provided

Quality Gate Passed

Reliability Measures

0 A Bugs

started 20 seconds ago

Security Measures

4 B Vulnerabilities

3 Security Hotspots

Maintainability Measures

50min A Debt

10 Code Smells

Coverage Measures

0.0% Coverage

Duplications Measures

40.8% Duplications

2 Duplicated Blocks

About This Project

No tags

1.1k Lines of Code

JavaScript	563
CSS	472
HTML	112

Project Activity

November 10, 2019

not provided

Show More

Quality Gate

(Default) Sonar way

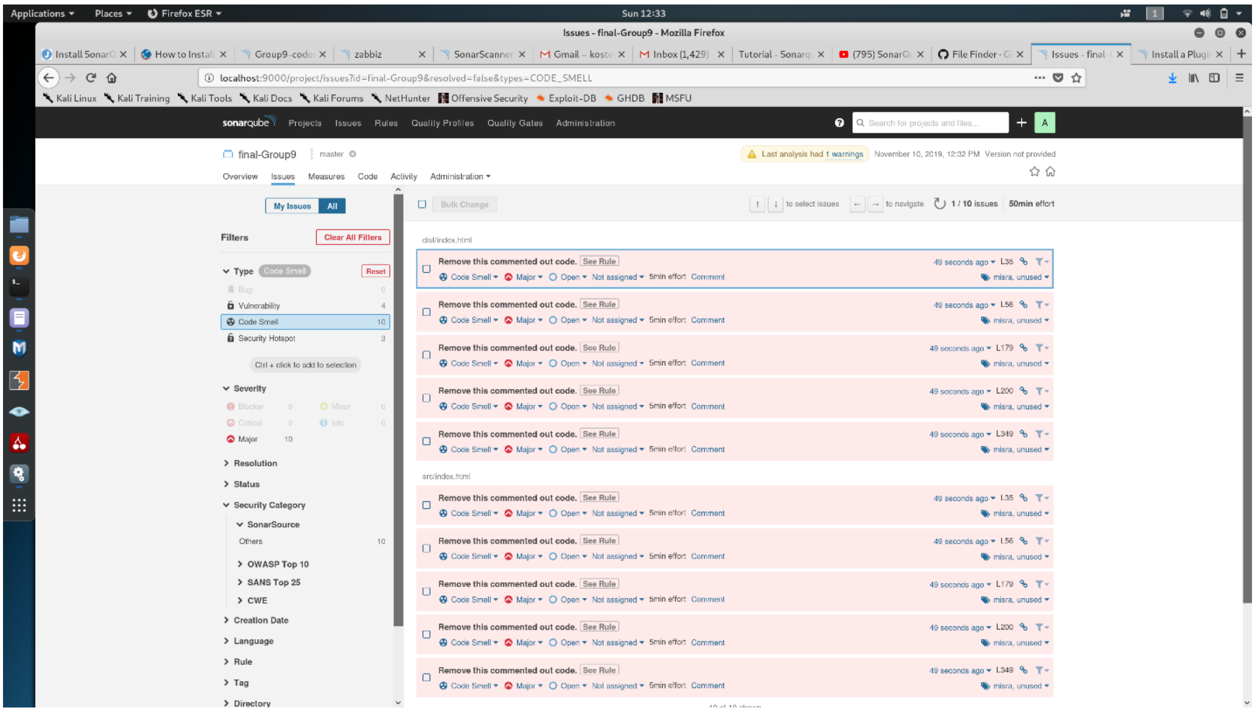
Quality Profiles

(CSS) Sonar way
(JavaScript) Sonar way
(HTML) Sonar way

Project Key: final-Group9

Get project badges

Code Smell:



localhost:9000/project/issues?id=final-Group9&resolved=false&types=CODE_SMELL

final-Group9 master

Last analysis had 1 warnings November 10, 2019, 12:32 PM Version not provided

↑ ↓ to select issues ← → to navigate 1 / 10 issues 50min effort

Filters

Type: Code Smell

Bug	0
Vulnerability	4
Code Smell	10
Security Hotspot	3

Severity

Blocker	0	Minor	0
Critical	0	Info	0
Major	10		

Resolution

Status

Security Category

SonarSource

Others	10

OWASP Top 10

SANS Top 25

CWE

Creation Date

Language

Rule

Tag

Directory

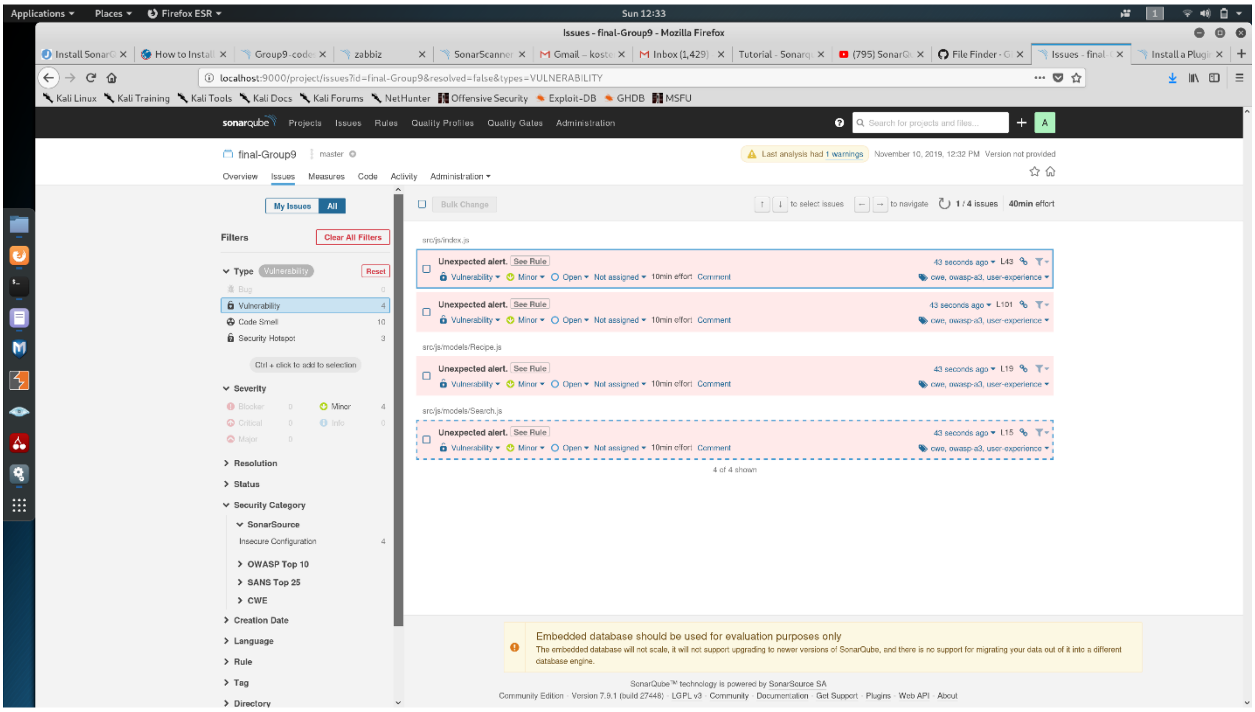
dist/index.html

- Remove this commented out code. See Rule — Code Smell, Major, Open, Not assigned, 5min effort, Comment — 49 seconds ago, L35 — misra, unused
- Remove this commented out code. See Rule — Code Smell, Major, Open, Not assigned, 5min effort, Comment — 49 seconds ago, L56 — misra, unused
- Remove this commented out code. See Rule — Code Smell, Major, Open, Not assigned, 5min effort, Comment — 49 seconds ago, L179 — misra, unused
- Remove this commented out code. See Rule — Code Smell, Major, Open, Not assigned, 5min effort, Comment — 49 seconds ago, L200 — misra, unused
- Remove this commented out code. See Rule — Code Smell, Major, Open, Not assigned, 5min effort, Comment — 49 seconds ago, L349 — misra, unused

src/index.html

- Remove this commented out code. See Rule — Code Smell, Major, Open, Not assigned, 5min effort, Comment — 49 seconds ago, L35 — misra, unused
- Remove this commented out code. See Rule — Code Smell, Major, Open, Not assigned, 5min effort, Comment — 49 seconds ago, L56 — misra, unused
- Remove this commented out code. See Rule — Code Smell, Major, Open, Not assigned, 5min effort, Comment — 49 seconds ago, L179 — misra, unused
- Remove this commented out code. See Rule — Code Smell, Major, Open, Not assigned, 5min effort, Comment — 49 seconds ago, L200 — misra, unused
- Remove this commented out code. See Rule — Code Smell, Major, Open, Not assigned, 5min effort, Comment — 49 seconds ago, L349 — misra, unused

Vulnerability:



localhost:9000/project/issues?id=final-Group9&resolved=false&types=VULNERABILITY

final-Group9 master

Last analysis had 1 warnings November 10, 2019, 12:32 PM Version not provided

↑ ↓ to select issues ← → to navigate 1 / 4 issues 40min effort

Filters

Type: Vulnerability

Bug	0
Vulnerability	4
Code Smell	10
Security Hotspot	3

Severity

Blocker	0	Minor	4
Critical	0	Info	0
Major	0		

Resolution

Status

Security Category

SonarSource

Insecure Configuration	4

OWASP Top 10

SANS Top 25

CWE

Creation Date

Language

Rule

Tag

Directory

src/js/index.js

- Unexpected alert. See Rule — Vulnerability, Minor, Open, Not assigned, 10min effort, Comment — 43 seconds ago, L43 — cwe, owasp-a3, user-experience
- Unexpected alert. See Rule — Vulnerability, Minor, Open, Not assigned, 10min effort, Comment — 43 seconds ago, L101 — cwe, owasp-a3, user-experience

src/js/models/Recipe.js

- Unexpected alert. See Rule — Vulnerability, Minor, Open, Not assigned, 10min effort, Comment — 43 seconds ago, L19 — cwe, owasp-a3, user-experience

src/js/models/Search.js

- Unexpected alert. See Rule — Vulnerability, Minor, Open, Not assigned, 10min effort, Comment — 43 seconds ago, L15 — cwe, owasp-a3, user-experience

4 of 4 shown

Embedded database should be used for evaluation purposes only

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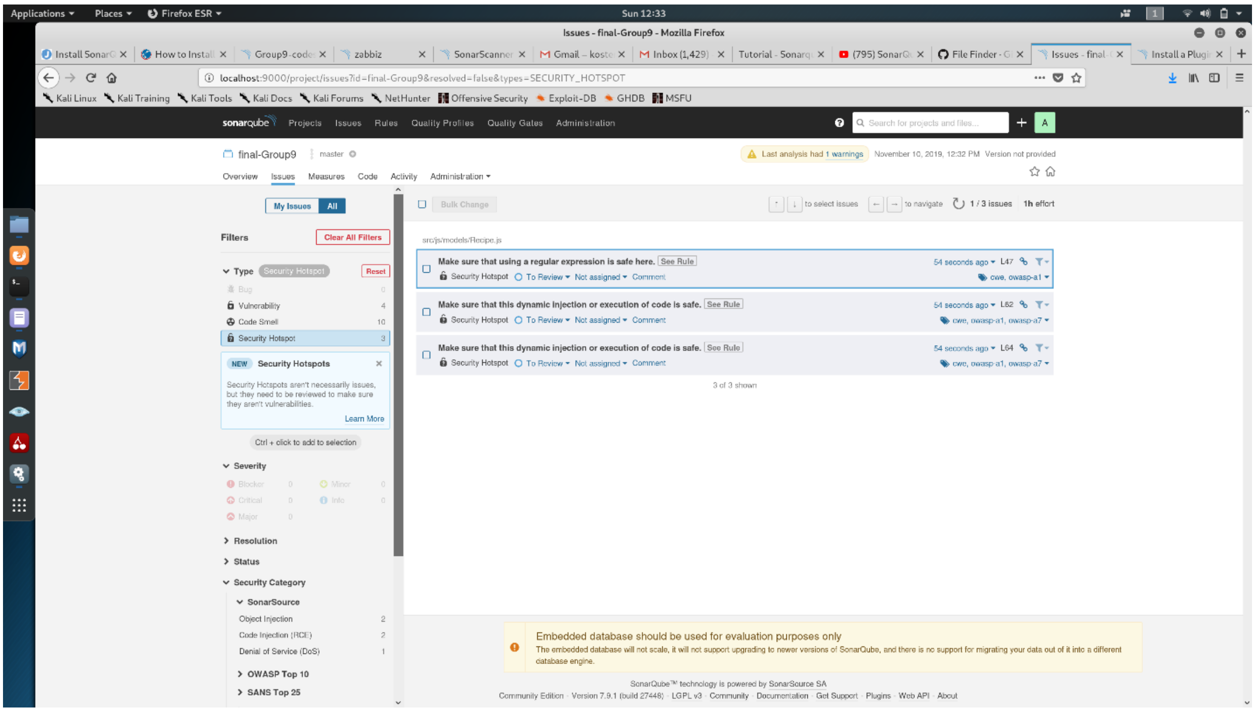
Security Hotspot:



localhost:9000/project/issues?id=final-Group9&resolved=false&types=SECURITY_HOTSPOT

final-Group9 master

Last analysis had 1 warnings November 10, 2019, 12:32 PM Version not provided

↑ ↓ to select issues ← → to navigate 1 / 3 issues 1h effort

Filters

Type: Security Hotspot

Bug	0
Vulnerability	4
Code Smell	10
Security Hotspot	3

NEW **Security Hotspots**

Security Hotspots aren't necessarily issues, but they need to be reviewed to make sure they aren't vulnerabilities.

Learn More

Ctrl + click to add to selection

Severity

Blocker	0	Minor	0
Critical	0	Info	0
Major	0		

Resolution

Status

Security Category

SonarSource

Object Injection	2
Code Injection (RCE)	2
Denial of Service (DoS)	1

OWASP Top 10

SANS Top 25

src/js/models/Recipe.js

□ **Make sure that using a regular expression is safe here.** See Rule — 54 seconds ago L47
Security Hotspot ○ To Review Not assigned Comment — cwe, owasp-a1

□ **Make sure that this dynamic injection or execution of code is safe.** See Rule — 54 seconds ago L62
Security Hotspot ○ To Review Not assigned Comment — cwe, owasp-a1, owasp-a7

□ **Make sure that this dynamic injection or execution of code is safe.** See Rule — 54 seconds ago L64
Security Hotspot ○ To Review Not assigned Comment — cwe, owasp-a1, owasp-a7

3 of 3 shown

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