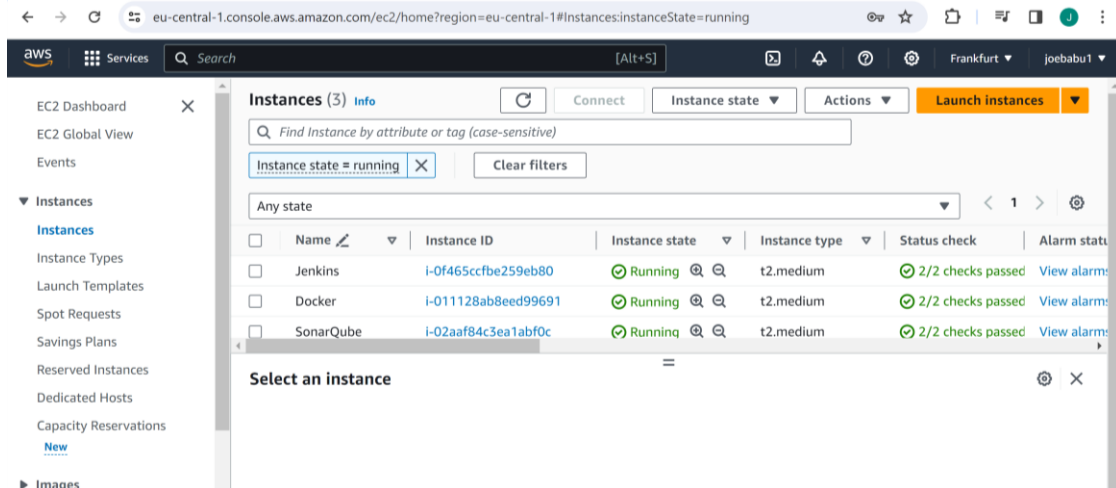


SonarQube Screenshots for MaswaliYote Quiz Management System

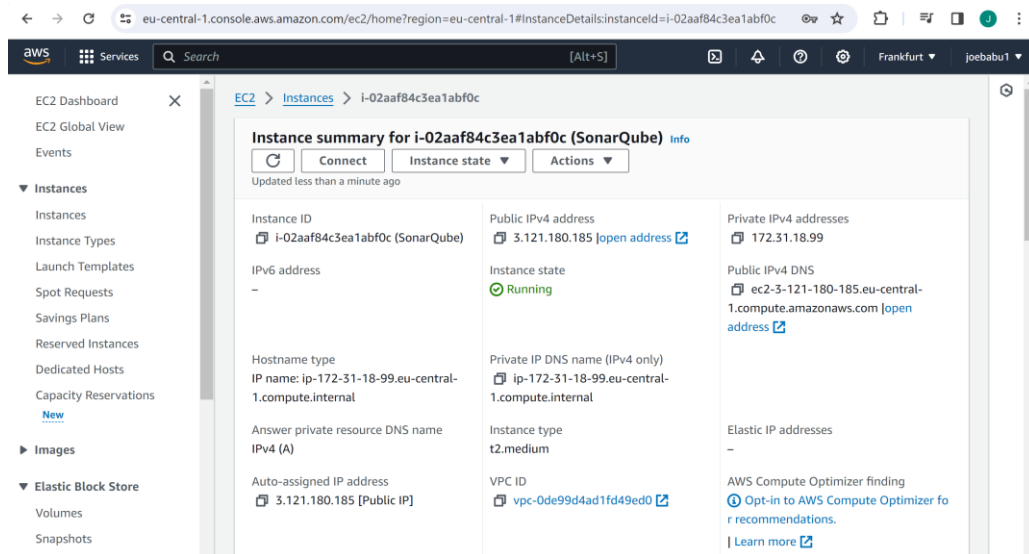
Background

The SonarQube server was hosted on an AWS EC2 instance and accessed through SSH using linux based command line for manipulation and configurations of the SonarQube host server.

a) AWS EC2 instances created

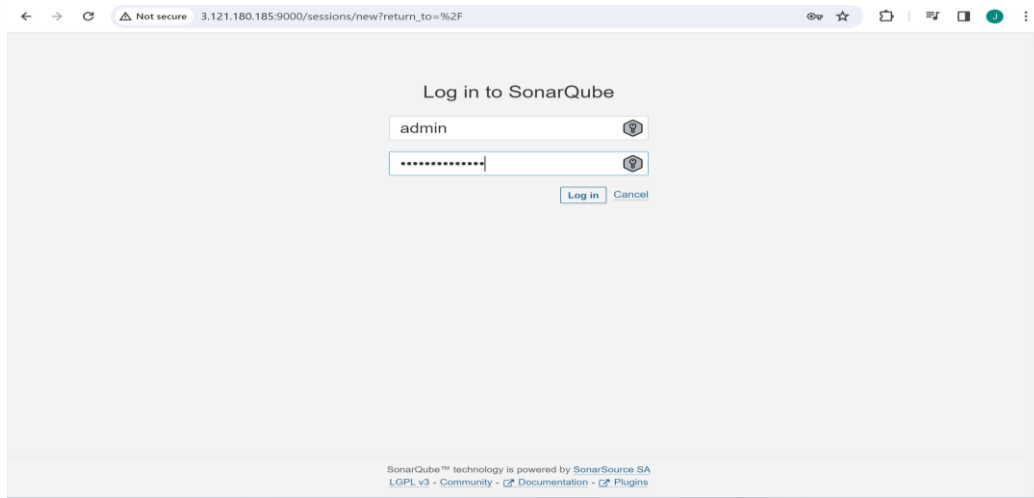


b) SonarQube Public IP address Page

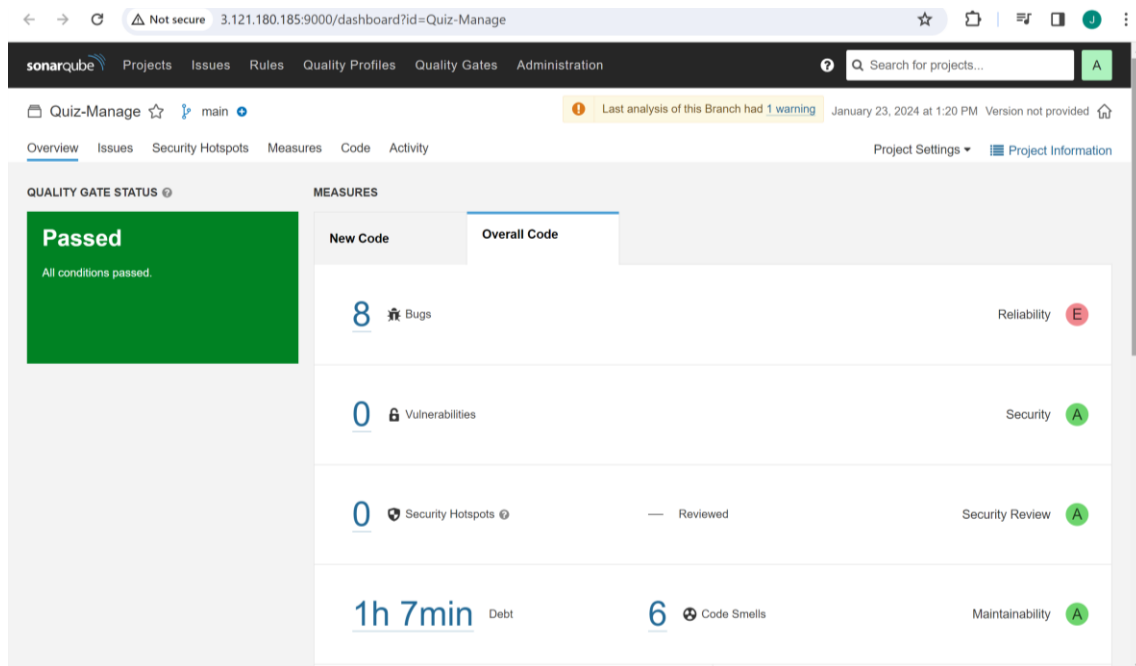


Access to the SonarQube server through IP address

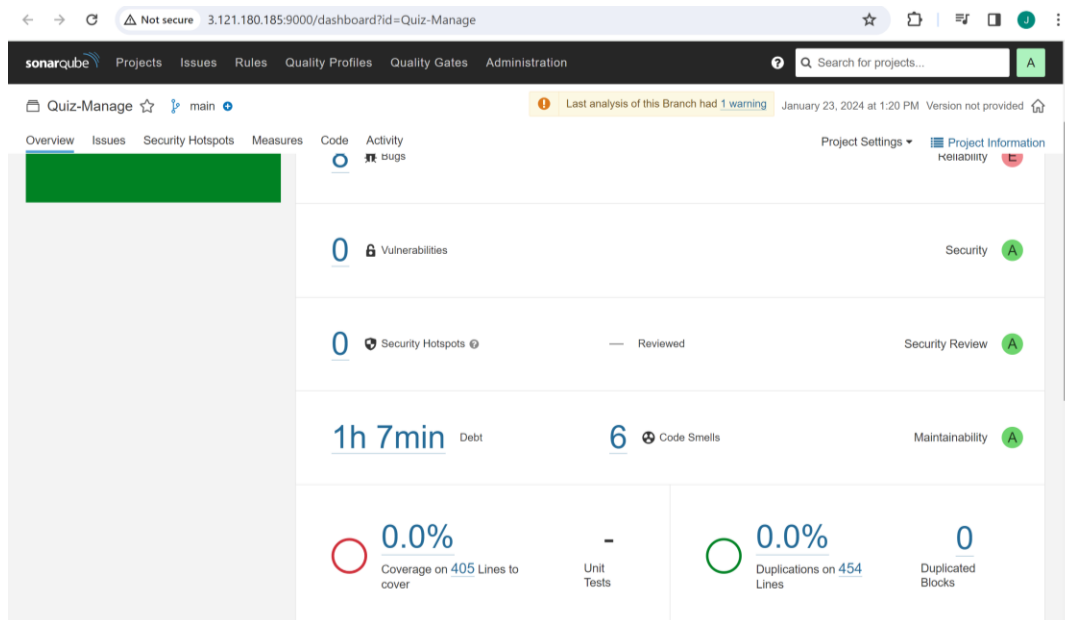
1. Login to SonarQube via Public IP Address provided by the AWS EC2 instance



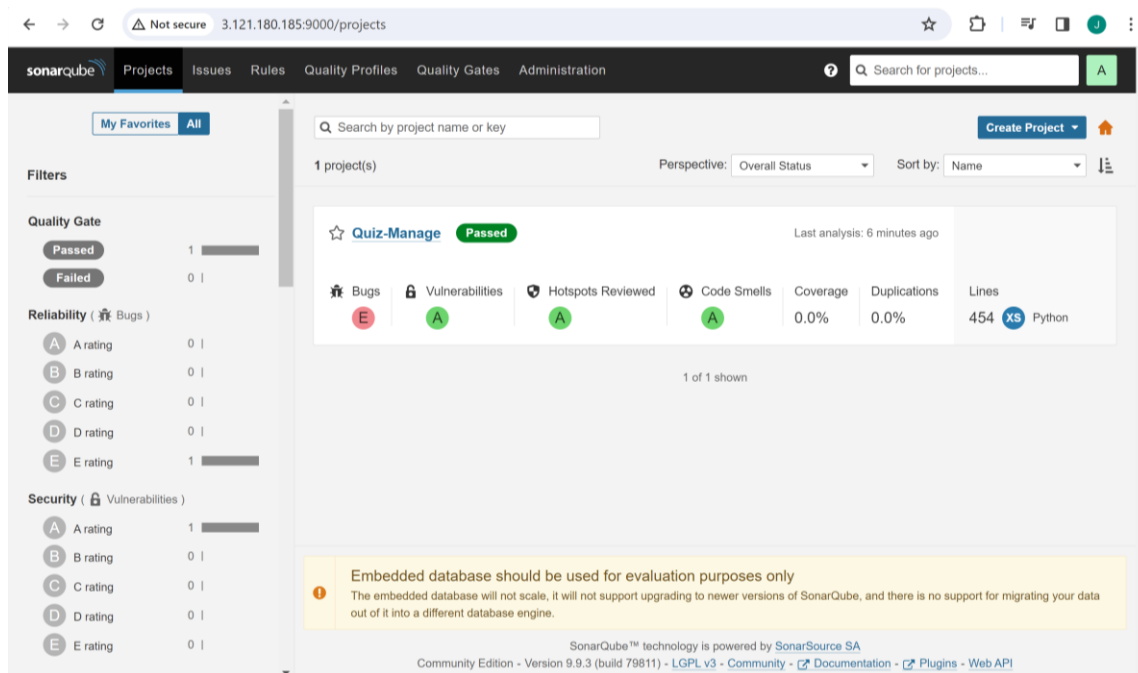
2. The Overview Page



3. Overview Page part 2



4. The projects page. Jenkins interfaced with SonarQube through Sonar scanner plugin which I named it Quiz-Manage



5. Other Screenshots – Quality Gates page

The screenshot shows the SonarQube interface for a Quality Gate. The top navigation bar includes 'sonarqube', 'Projects', 'Issues', 'Rules', 'Quality Profiles', 'Quality Gates', and 'Administration'. A search bar is present on the right. The left sidebar shows 'Quality Gates' with a 'Create' button and tabs for 'Sonar way', 'DEFAULT', and 'BUILT-IN'. The main content area is titled 'Sonar way BUILT-IN' with a 'Copy' button. It features a green box stating 'This quality gate complies with Clean as You Code' and lists several criteria: 'No new bugs are introduced', 'No new vulnerabilities are introduced', 'All new security hotspots are reviewed', 'New code has limited technical debt', 'New code has limited duplication', and 'New code is properly covered by tests'. Below this, a table titled 'Conditions on New Code' lists metrics, operators, and values.

Metric	Operator	Value
Coverage	is less than	80.0%
Duplicated Lines (%)	is greater than	3.0%
Maintainability Rating	is worse than	A (Technical debt ratio is less than 5.0%)
Reliability Rating	is worse than	A (No bugs)
Security Hotspots Reviewed	is less than	100%

6. Other Screenshots – Quality Profile (Specifically for Python)

The screenshot shows the SonarQube interface for Quality Profiles. The top navigation bar includes 'sonarqube', 'Projects', 'Issues', 'Rules', 'Quality Profiles', 'Quality Gates', and 'Administration'. A search bar is present on the right. The left sidebar shows 'Quality Profiles' with 'Create' and 'Restore' buttons. The main content area is titled 'Quality Profiles' and includes a description: 'Quality profiles are collections of rules to apply during an analysis. For each language there is a default profile. All projects not explicitly assigned to some other profile will be analyzed with the default. Ideally, all projects will use the same profile for a language. [Learn More](#)'. A filter dropdown is set to 'Python'. Below this, a table lists the profiles for Python.

Python, 1 profile(s)	Projects	Rules	Updated	Used
Sonar way BUILT-IN	DEFAULT	183	24 minutes ago	8 minutes ago

On the right, a section titled 'Recently Added Rules' lists several rules with their status (e.g., 'C#, not yet activated').

7. Other Screenshots – Rules Page

The screenshot shows the SonarQube Rules page for Python. The left sidebar lists various programming languages with their respective rule counts. Python is selected, showing 230 rules. The main area displays a table of rules, including their descriptions, categories, and actions.

Language	Rule Count
Java	628
C#	405
JavaScript	312
TypeScript	307
PHP	257
Python	230
VB.NET	179
Kotlin	114
Flex	82
HTML	65
Terraform	50
Ruby	48
Scala	47
Go	44
XML	36

Rule Description	Category	Actions
"<>" should not be used to test inequality	Python Code Smell obsolete	[Filter]
"==" should not be used instead of "!="	Python Bug	[Filter]
"\" should only be used as an escape character outside of raw strings	DEPRECATED Python Bug	[Filter]
"__exit__" should accept type, value, and traceback arguments	DEPRECATED Python Bug	[Filter]
"__init__" should not return a value	Python Bug	[Filter]
"break" and "continue" should not be used outside a loop	Python Bug	[Filter]
"except" clauses should do more than raise the same issue	Python Code Smell clumsy, error-ha...	[Filter]
"Exception" and "BaseException" should not be raised	Python Code Smell cwe, error-handl...	[Filter]
"pass" should not be used needlessly	Python Code Smell unused	[Filter]
"return" and "yield" should not be used in the same function	Python Bug	[Filter]
"self" should be the first argument to instance methods	Python Code Smell confusing, conv...	[Filter]
"SystemExit" should be re-raised	Python Code Smell bad-practice, err...	[Filter]