

SonarCloud

What is Sonarqube?

- ✓ SonarQube is a platform for managing code quality.
- ✓ It performs static analysis of code, identifying bugs, code smells, security vulnerabilities, and code duplications.
- ✓ This helps developers identify and fix issues early in the development lifecycle, leading to higher quality code.
- ✓ SonarQube supports many programming languages and integrates with various build tools and CI/CD pipelines.

More Detailed Look.

- ✓ **Code Quality Analysis:**

SonarQube analyzes code for various quality issues, including bugs, code smells (poor coding practices), security vulnerabilities, and code duplications.

- ✓ **Support for Multiple Languages:**

It supports a wide range of programming languages, making it versatile for different development teams.

- ✓ **Integration with CI/CD:**

SonarQube integrates with build tools (like Maven, Ant, Gradle) and CI/CD platforms (like Jenkins, Azure DevOps, etc.) to automate code quality checks as part of the build process.

More Detailed Look.

- ✓ **Open-Source and Commercial Editions:**

SonarQube is available as an open-source community edition and also has commercial editions with additional features.

- ✓ **Continuous Inspection:**

SonarQube performs continuous inspection of code, helping developers identify and fix issues as they are introduced.

- ✓ **Developer Productivity:**

By providing automated analysis and actionable insights, SonarQube helps developers write cleaner, more robust code.

What is SonarCloud?

- ✓ SonarCloud is a cloud-based code quality and security analysis service that helps developers identify and remediate issues in their code. It
- ✓ It's free for open-source projects and offers a paid subscription for private projects.
- ✓ SonarCloud integrates with popular version control and CI/CD platforms like GitHub, Bitbucket, and Azure DevOps.

Account Creation in SonarCloud

How to Create Account in SonarCloud?

Step #1: Go to SonarCloud Website: Visit the [SonarCloud website](https://sonarcloud.io)

Step #2: Sign up: On the SonarCloud homepage, click on the “Sign Up” or “Create an account” button.

The screenshot shows the SonarCloud homepage. At the top, there is a purple banner with the text "[WEBINAR] SECURING WITH CLEAN CODE: UNVEILING AND MITIGATING VULNERABILITIES - DECEMBER 6" and a "Register Now" link. Below this is a dark purple navigation bar with the Sonar logo and links for "Solutions", "Products", "Resources", and "Company". The main navigation bar is white and contains the "sonarcloud" logo, a cloud icon, and links for "Features", "What's New", "Roadmap", "Documentation", "Pricing", "SIGN UP", and "LOG IN". The "SIGN UP" button is highlighted with a green circle. Below the navigation bar, the main content area has a pink background. On the left, it says "AS A SERVICE. SONARCLOUD." followed by "clean code in your cloud workflow with {SonarCloud}" in large bold text. Below this, it says "Enable your team to deliver clean code consistently and efficiently with a code review tool that easily integrates into the cloud DevOps platforms and extend your CI/CD workflow." At the bottom left, there are two buttons: "START USING SONARCLOUD -->" and "OVERVIEW". On the right, there is a dashboard showing various metrics: "1.9k Findings +148", "23 Bugs +8", "1.8k Code Smells +140", "0 Vulnerabilities", and "2 Security Hotspots". Each metric has a corresponding line chart showing trends over time. A legend at the bottom indicates "Number of findings" (blue line) and "New Code" (light blue area). A link "See Full History" is also present.

[WEBINAR] SECURING WITH CLEAN CODE: UNVEILING AND MITIGATING VULNERABILITIES - DECEMBER 6 Register Now

sonar Solutions Products Resources Company

sonarcloud | Features What's New Roadmap Documentation Pricing **SIGN UP** LOG IN

AS A SERVICE. SONARCLOUD.

clean code in your cloud workflow with {SonarCloud}

Enable your team to deliver clean code consistently and efficiently with a code review tool that easily integrates into the cloud DevOps platforms and extend your CI/CD workflow.

START USING SONARCLOUD --> **OVERVIEW**

1.9k Findings +148

Bugs 23 +8

Code Smells 1.8k +140

Vulnerabilities 0

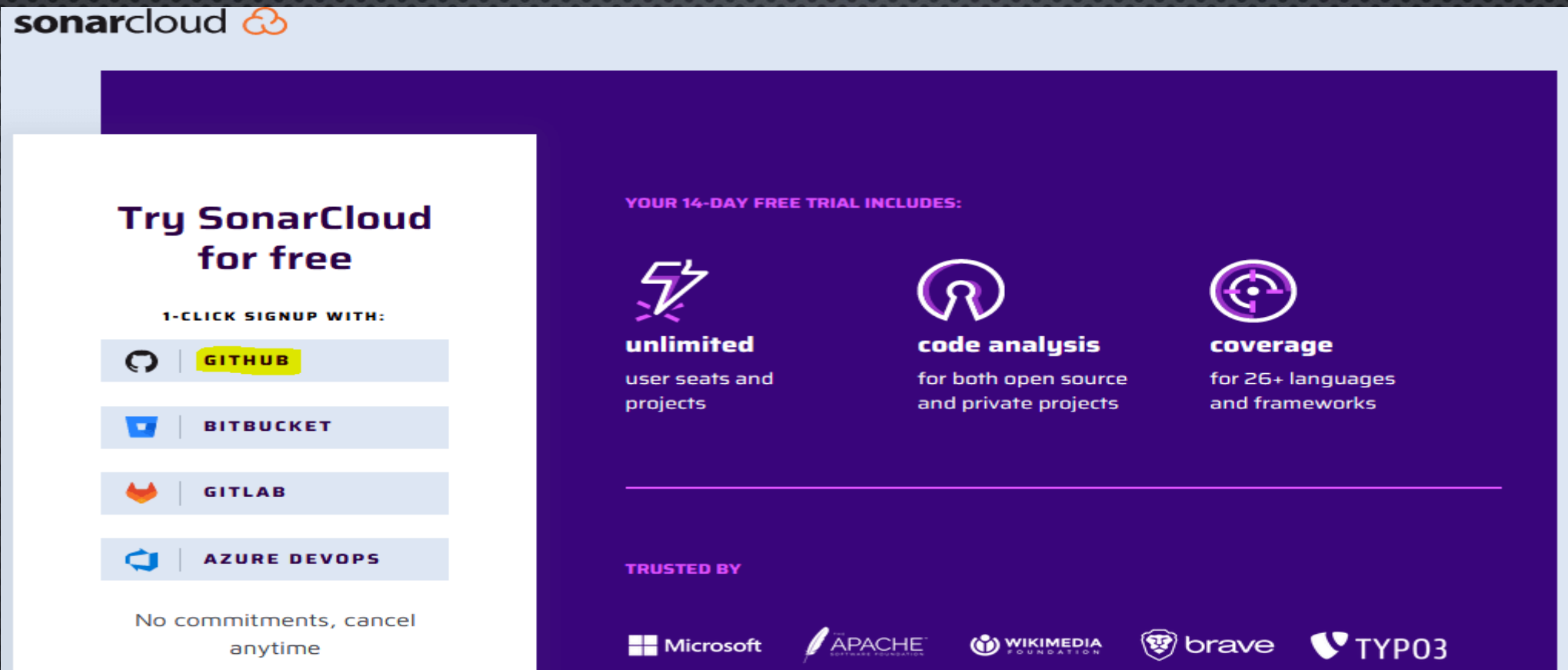
Security Hotspots 2

Number of findings New Code

[See Full History](#)

How to Create Account in SonarCloud?

Step #3: Choose Authentication Method: Select the preferred authentication method. If you choose to sign up using a code repository host like GitHub or Bitbucket, you'll be redirected to that platform's authentication page.







The image shows the SonarCloud sign-up page. At the top left is the SonarCloud logo. The main heading is "Try SonarCloud for free". Below this, it says "1-CLICK SIGNUP WITH:" and lists four options: GitHub, Bitbucket, GitLab, and Azure DevOps. Each option has its respective logo and name. Below the options, it says "No commitments, cancel anytime". To the right of the sign-up options, there is a section titled "YOUR 14-DAY FREE TRIAL INCLUDES:" which lists three benefits: "unlimited user seats and projects" (with a lightning bolt icon), "code analysis for both open source and private projects" (with a key icon), and "coverage for 26+ languages and frameworks" (with a target icon). At the bottom, there is a section titled "TRUSTED BY" which lists several logos: Microsoft, Apache Software Foundation, Wikimedia Foundation, Brave, and TYP03.

sonarcloud




Try SonarCloud for free

1-CLICK SIGNUP WITH:






-  **GITHUB**
-  **BITBUCKET**
-  **GITLAB**
-  **AZURE DEVOPS**

No commitments, cancel anytime

YOUR 14-DAY FREE TRIAL INCLUDES:

- 
unlimited
user seats and projects
- 
code analysis
for both open source and private projects
- 
coverage
for 26+ languages and frameworks

TRUSTED BY

-  Microsoft
-  APACHE SOFTWARE FOUNDATION
-  WIKIMEDIA FOUNDATION
-  brave
-  TYP03

How to Create Account in SonarCloud?

Step #4: Authorize Access: If using GitHub or Bitbucket, you'll be prompted to authorize SonarCloud's access to your repositories. Grant the necessary permissions.

Step #5: Complete Sign-Up: After authorization, follow the on-screen instructions to complete the signup process. This might involve choosing repositories to analyze or configuring some settings.

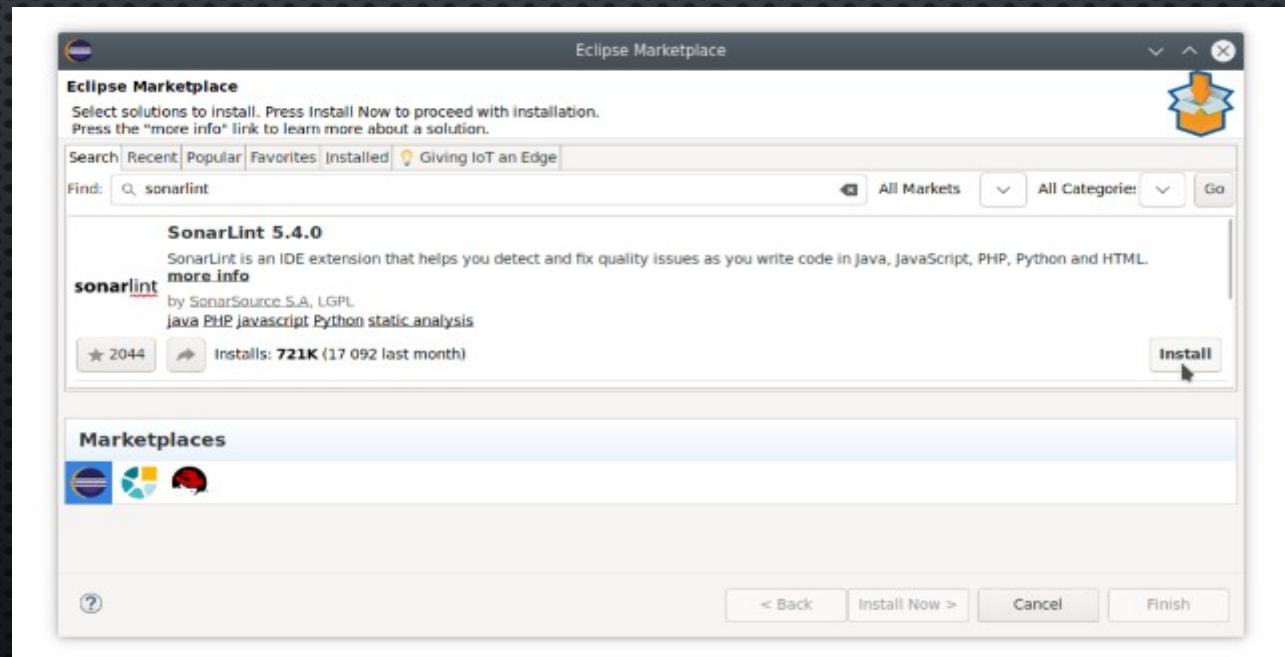
Step #6: Verify Email (if required): You might need to verify your email address to activate your SonarCloud account. Check your email inbox for a verification link and follow the instructions provided.

Step #7: Start Using SonarCloud: Once your account is set up and verified, you can start using SonarCloud to analyze your code repositories for quality and security issues.

Code Quality Check in SonarCloud

How to Check Code Quality in SonarCloud?

- ✓ To check code quality in SonarCloud, you can use static analysis to identify issues like bugs, vulnerabilities, and code smells.
- ✓ SonarCloud provides tools like SonarLint for your IDE, enabling real-time feedback and issue detection as you write code.
- ✓ You can also integrate SonarCloud with your CI/CD pipeline to automate analysis and quality gate checks.



How to Check Code Quality in SonarCloud?

✓ 1. Static Analysis with SonarLint:

SonarLint, an IDE plugin, helps you catch code quality issues as you type. It provides real-time feedback, similar to a spell checker, highlighting potential problems. This helps developers identify and fix issues early in the development process.

✓ 2. Integration with CI/CD Pipelines:

SonarCloud can be integrated with various CI/CD platforms like GitLab and GitHub Actions.

This allows for automated code analysis and quality gate checks within your build process.

You can configure SonarCloud to run analysis on each code commit or pull request.

How to Check Code Quality in SonarCloud?

Welcome to SonarQube Cloud. How do you want to get started?


Import an organization

Whether you're just testing or onboarding your team, your journey starts with your organization.

After importing your organization, you can immediately:

- Setup and configure your organization and project settings
- Invite, remove and manage your team and their permissions

If you are an advanced user with your own workflow, you can [create a project manually](#).

 Import an organization

Find my organization

If you can't find your organization in the list, you should **ask your organization admin** to add you.


While you're waiting, we recommend you **bookmark these pages**:

[SonarQube Cloud documentation](#)

[SonarCommunity forum](#)

How to Check Code Quality in SonarCloud?

Install & Authorize SonarQubeCloud

Install & Authorize on your personal account valanmca 

for these repositories:

☐ All repositories


This applies to all current and future repositories owned by the resource owner. Also includes public repositories (read-only).

☒ Only select repositories

Select at least one repository. Also includes public repositories (read-only).

 **Select repositories** ▼

Selected 1 repository.

 valanmca/MySonarRepo



User permissions

Installing and authorizing SonarQubeCloud immediately grants these permissions on your account: valanmca.

✓ Read access to email addresses

Install & Authorize

[Cancel](#)

Next: you'll be redirected to <https://sonarcloud.io/create-organization>

How to Check Code Quality in SonarCloud?

1 Import organization details

Import  valanmca into a SonarQube Cloud organization 

Name *

Up to 255 characters

Key * ?

Use only lowercase letters, numbers, or hyphens. Must start and end with a letter or number. Up to 255 characters.

2 Choose a plan

Free

For individual developers, students and open-source projects

\$0

Select Free

What's included

- Up to 50k private lines of code
- Up to 5 members
- Unlimited public lines of code

Create Organization

How to Check Code Quality in SonarCloud?

Analyze projects

Select repositories from one of your GitHub organization.

Organization

valanmca

[Import another organization](#)



MySonarRepo

Don't see your repo? Check your [GitHub app configuration](#).

1 repository selected

1 repository will be created as a public project on SonarQube Cloud

Set Up

Just testing? You can [create a project manually](#)

Setup a [monorepo](#)

How to Check Code Quality in SonarCloud?

The new code for this project will be based on:

☐ Previous version

Any code that has changed since the previous version is considered new code.

Recommended for projects following regular versions or releases.

☒ Number of days

Any code that has changed in the last x days is considered new code. If no action is taken on a new issue after x days, this issue will become part of the overall code.

Recommended for projects following continuous delivery.

Provide a whole number between 1 and 90



You can change this at any time in the project administration

Back

Create project

How to Check Code Quality in SonarCloud?

Choose your Analysis Method



With GitHub Actions



With Travis CI



With CircleCI



With Amazon CodeCatalyst

With other CI tools

SonarQube Cloud integrates with your workflow no matter which CI tool you're using.

Manually

Use this for testing. Other modes are recommended to help you set up your CI environment.

How to Check Code Quality in SonarCloud?

Analyze from your local sources

1 Run analysis on your project

What option best describes your project?

JS/TS & Web

Maven

Gradle

.NET

C, C++ or ObjC

Flutter or Dart

Other (for Go, Python, PHP, ...)

How to Check Code Quality in SonarCloud?

Which OS do you run your build on?

Linux

Windows

macOS

Download and unzip the SonarScanner for Windows

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

Download

Download and unzip the SonarScanner for Windows

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

Download

Configure the `SONAR_TOKEN` environment variable

1 Name of the environment variable:

`SONAR_TOKEN`



2 Value of the environment variable:

`9d87543fb0ac84943d70fce80387525ca1f38e2c`



Execute the SonarScanner from your computer

Run the following command in your project's folder.

```
sonar-scanner.bat `
-D"sonar.organization=valanmca" `
-D"sonar.projectKey=valanmca_MySonarRepo" `
-D"sonar.sources=." `
-D"sonar.host.url=https://sonarcloud.io"
```


How to Check Code Quality in SonarCloud?



And you are done!

If everything is running successfully, once the analysis is complete you'll be redirected to the Overview page of your project where the new analysis results will be displayed. This can take a few minutes.



Thank You