Sonar Puts Clean Code in Cloud Native

Whether you're already fully investing in cloud native or just getting started, you need a clean code solution to ensure you're getting the most out of your efforts. With the advent of technologies such as serverless, Infrastructure as Code (IaC) and Kubernetes, there's more cloud native based source code than ever and keeping it clean is essential.

Sonar provides fast, comprehensive SAST analysis as part of an overall clean code solution that covers cloud native technologies along with dozens of other popular and classic languages. Sonar puts the power of clean code in developers' hands with intuitive tools that help them find and fix issues right in their workflow. With Sonar in your corner continually checking code quality, you and your development team have the freedom to concentrate on the key cloud native benefits - moving faster and focusing on your core business.

the necessity of clean code

While cloud native is based on new tech and new approaches, the foundation is still based on code. And that code is the lifeblood of your organization. If your product(s) are what differentiate you from your competitors, then your codebase is the true source of your intellectual property. Obviously, it's important to safeguard that codebase from prying eyes, but you must also keep your source code clean so that it stays fit for its purpose.

the power of clean code

Sonar is built around a powerful methodology called Clean as You Code, which fundamentally integrates clean code practices into your cloud native workflow. Clean code means maintainable code, and that, ultimately, is what ensures you'll stay competitive.

It's easy to think that a new feature or killer app as the source of your competitive advantage. This is only true in the short term. Long-term success and sustainability require a competitive advantage that is only achievable with a clean codebase. In the long run, you must give your developers a solid foundation on which to build. If your devs are spending a lot of cycles cleaning up past issues, you can trust that your competition will already be delivering and leaving you behind.

the benefits of clean code

FOR DEVOPERS

Develop for the latest cloud native technologies and platforms with confidence that the code is clean. Sonar presents expert guidance when issues are found that helps developers quickly comprehend the issue and formulate a fix. With this meaningful assistance, developers are free to experiment and learn cloud native best practices. Whether it's playing around with IaC or building mission-critical serverless functions, Sonar is always there, on the sideline, ready to assist.

FOR MANAGERS

In today's app development world, speed to market with new functionality is the main driver. When developers have to spend time fixing old coding issues, it can lead to release delays that allow the competition to deliver new marketplace features ahead of you. Sonar provides managers with a clear picture of code quality health at all times. Out-of-the-box reporting containing comprehensive metrics makes it easy to know if an application passes the clean code standard established by the team.

FOR DEVSECOPS

Cloud native ushered in a new era of app development and with this new directioin comes additional security concerns. Unfortunately, vulnerabilities are increasing in quantity and severity. Organizations that rely on traditional AppSec practices are exposing themselves to increasing risk with every release. Sonar empowers devs to take direct ownership of source code security. This lightens the load on DevSecOps, which frees them to utilize their valuable skills in other, underserved security challenged areas of the business.

the Sonar led path to clean code

There are two fundamental aspects of a clean code approach for your cloud native projects: the practice and the process.

The practice is all about following fundamental clean code tenets with every pull request, every build and every release. Developers writing cloud native code should follow these clean code rules:

+ Individual developers always own the quality of the code they write

+ Added/changed code should not introduce new issues

The practice is straightforward, however, long-term success can only come from operationalizing the practice with a sustainable, developer-friendly process. Without a sustainable process, the practice is just guidance without execution.

The Sonar solution is entirely focused on the process behind the practice. By tightly integrating with the developer workflow, Sonar highlights code quality issues right where developers spend their time - the DevOps platform.
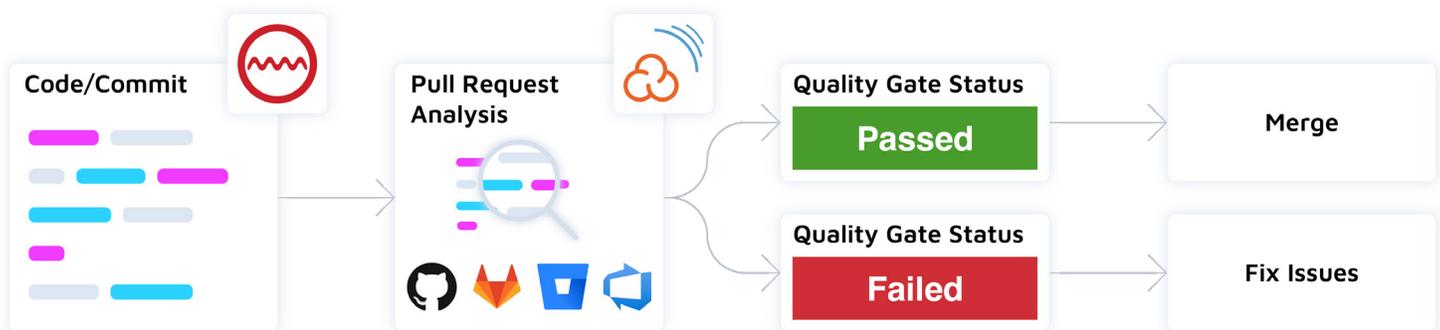
So boldly go ahead and follow the cloud native path - just don't do it without a clean code safety net. Sonar is the clean code Swiss Army knife to find the bugs, vulnerabilities and code smells in your cloud native projects. It's the one solution to elevate the code quality for all your projects including cloud native.

supported cloud native platforms and technologies

CLOUD NATIVE/
SERVERLESS

INFRASTRUCTURE
AS CODE

DEPLOYMENT

AND THESE OTHER POPULAR LANGUAGES AND DEVELOPMENT FRAMEWORKS

Java

Kotlin

C#

VB

C

C++

JS

TS

php

ABAP

Apex

COBOL

CSS

VB6

<XML/>

Flex

GO

HTML 5

Objective-C

PL/I

PL/SQL

RPG

T-SQL