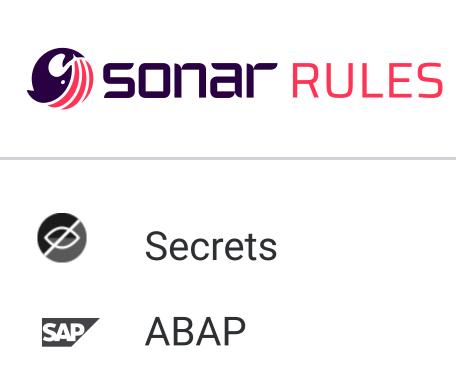
Search by name...

Analyze your code



Apex



CloudFormation static code analysis

Unique rules to find Bugs, Vulnerabilities, Security Hotspots, and Code Smells in your CLOUDFORMATION code



All rules 27

Vulnerability

(3) Security Hotspot (20)

Code Smell (4)

C# CSS

COBOL

Flex

Go

HTML Java

JavaScript

Kotlin Kubernetes

Objective C

PHP

Creating public APIs is security-sensitive Security Hotspot Allowing public network access to cloud resources is security-sensitive Security Hotspot Having AWS policies that grant access to all resources of an account is security-sensitive Security Hotspot

Creating public APIs is security-sensitive

Security Hotspot

Blocker

aws cwe owasp

Tags

A public API, which can be requested by any authenticated or unauthenticated identities, can lead to unauthorized actions and information disclosures.

Ask Yourself Whether

The public API:

exposes sensitive data like personal information.

can be used to perform sensitive operations.

wered yes to any of those questions.

SonarSource SA's websites use cookies to distinguish you from other users of our websites. This helps us to provide you with a good experience when you browse our websites and also allows us to improve them.

Having policies that grant all privileges is

Coding Practices

RPG

Ruby

Scala

Swift

Terraform

Text

TypeScript

T-SQL

VB.NET

VB6

XML

It's recommended to restrict API access to authorized entities, unless the API offers a non-sensitive service designed to be public.

Noncompliant Code Example

A public API that doesn't have access control implemented:

NoncompliantApiGatewayMethod: Type: AWS::ApiGateway::Method Properties:

> AuthorizationType: NONE # Sensitive HttpMethod: GET

A Serverless Application Model (SAM) API resource that is public by default:

OpenApiDefault: # Sensitive Type: AWS::Serverless::Api Properties: StageName: Prod

Compliant Solution

An API that implements AWS IAM permissions:

MyApiGatewayMethodIam: Type: AWS::ApiGateway::Method Properties: AuthorizationType: AWS_IAM HttpMethod: GET

A Serverless Application Model (SAM) API resource that has to be requested using a key:

ApiKeyApi: Type: AWS::Serverless::Api Properties: StageName: Prod Auth: ApiKeyRequired: true

See

- OWASP Top 10 2021 Category A1 Broken Access Control
- AWS Documentation Controlling and managing access to a REST API in API Gateway
- MITRE, CWE-284 Improper Access Control
- OWASP Top 10 2017 Category A5 Broken Access Control

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