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Secrets

ABAP

Apex

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CloudFormation

COBOL

C#

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Flex

Go **=GO**

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Java JavaScript

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Objective C

Kubernetes

PL/SQL Python

RPG

Ruby

Swift

Scala

Terraform

Text

TypeScript

T-SQL

VB.NET

XML

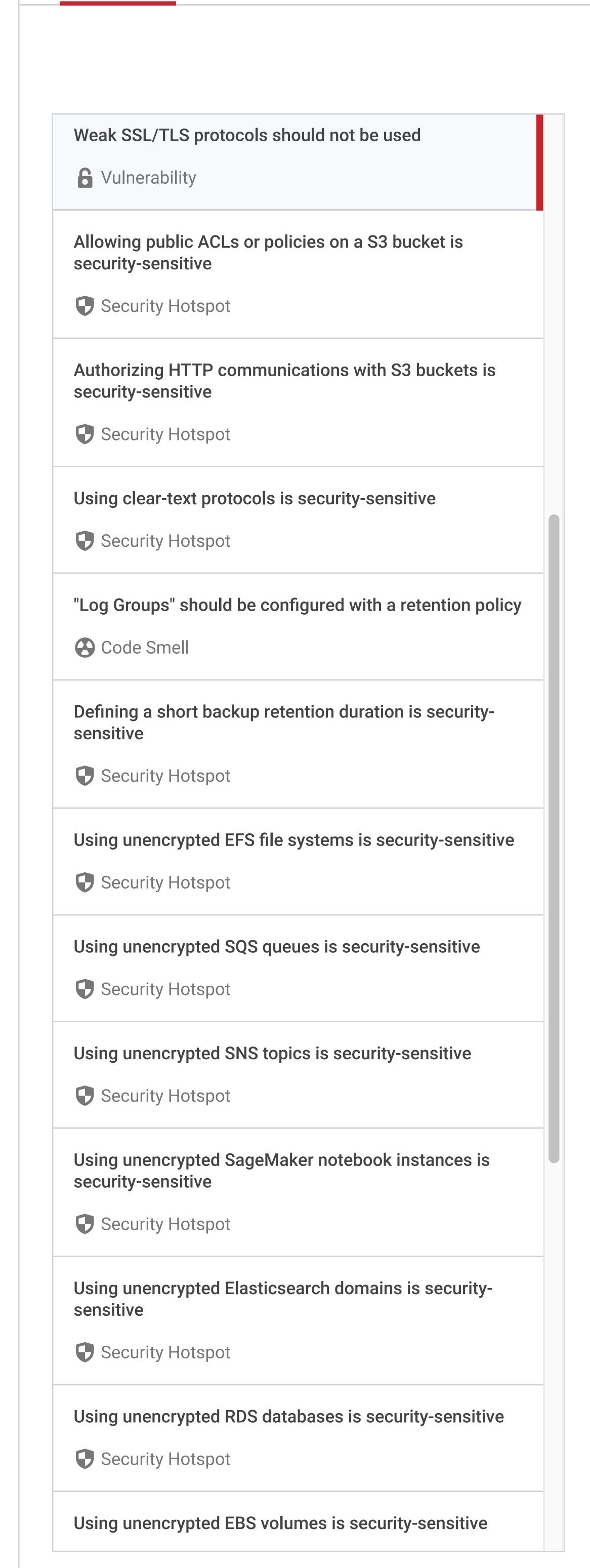


Unique rules to find Bugs, Vulnerabilities, Security Hotspots, and Code Smells in your CLOUDFORMATION code

(3) All rules 27 **6** Vulnerability

Security Hotspot (20)

Code Smell 4



```
Analyze your code
Weak SSL/TLS protocols should not be used
This rule raises an issue when an insecure TLS protocol version (i.e. a protocol different from "TLSv1.2", "TLSv1.3", "DTLSv1.2", or
"DTLSv1.3") is used or allowed.
It is recommended to enforce TLS 1.2 as the minimum protocol version and to disallow older versions like TLS 1.0. Failure to do so could
open the door to downgrade attacks: a malicious actor who is able to intercept the connection could modify the requested protocol
version and downgrade it to a less secure version.
See
  • OWASP Top 10 2021 Category A2 - Cryptographic Failures

    OWASP Top 10 2021 Category A7 - Identification and Authentication Failures

    OWASP Top 10 2017 Category A3 - Sensitive Data Exposure

  • OWASP Top 10 2017 Category A6 - Security Misconfiguration

    Mobile AppSec Verification Standard - Network Communication Requirements

    OWASP Mobile Top 10 2016 Category M3 - Insecure Communication

    MITRE, CWE-327 - Inadequate Encryption Strength

  • MITRE, CWE-326 - Use of a Broken or Risky Cryptographic Algorithm
  • SANS Top 25 - Porous Defenses

    SSL and TLS Deployment Best Practices - Use secure protocols

Noncompliant Code Example
For Amazon OpenSearch domains:
  AWSTemplateFormatVersion: 2010-09-09
  Resources:
    Example:
      Type: AWS::OpenSearchService::Domain
      Properties:
         DomainName: example
         DomainEndpointOptions:
           EnforceHTTPS: true
           TLSSecurityPolicy: "Policy-Min-TLS-1-0-2019-07" # Noncompliant
For Amazon API Gateway:
  AWSTemplateFormatVersion: '2010-09-09'
  Resources:
    CustomApi:
      Type: AWS::ApiGateway::DomainName
      Properties:
         SecurityPolicy: "TLS_1_0" # Noncompliant
  AWSTemplateFormatVersion: '2010-09-09'
    CustomApi: # Noncompliant
      Type: AWS::ApiGatewayV2::DomainName
Compliant Solution
For Amazon OpenSearch domains:
  AWSTemplateFormatVersion: 2010-09-09
  Resources:
    Example:
      Type: AWS::OpenSearchService::Domain
      Properties:
         DomainName: example
         DomainEndpointOptions:
           EnforceHTTPS: true
           TLSSecurityPolicy: "Policy-Min-TLS-1-2-2019-07"
For Amazon API Gateway:
  AWSTemplateFormatVersion: '2010-09-09'
  Resources:
    CustomApi:
      Type: AWS::ApiGateway::DomainName
      Properties:
         SecurityPolicy: "TLS_1_2"
  AWSTemplateFormatVersion: '2010-09-09'
  Resources:
    CustomApi:
      Type: AWS::ApiGatewayV2::DomainName
      Properties:
         DomainNameConfigurations:
           - SecurityPolicy: "TLS 1 2"
See
 • OWASP Top 10 2021 Category A2 - Cryptographic Failures
 • OWASP Top 10 2021 Category A7 - Identification and Authentication Failures
 • OWASP Top 10 2017 Category A3 - Sensitive Data Exposure
```

Tags

• OWASP Top 10 2017 Category A6 - Security Misconfiguration

MITRE, CWE-327 - Inadequate Encryption Strength

• SANS Top 25 - Porous Defenses

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Available In:

OWASP Mobile Top 10 2016 Category M3 - Insecure Communication

• MITRE, CWE-326 - Use of a Broken or Risky Cryptographic Algorithm

SSL and TLS Deployment Best Practices - Use secure protocols

• Amazon API Gateway - Choosing a minimum TLS version

Mobile AppSec Verification Standard - Network Communication Requirements