




Secrets


ABAP


Apex


C


C++


CloudFormation


COBOL


C#


CSS


Flex


Go


HTML


Java


JavaScript


Kotlin


Objective C


PHP


PL/I


PL/SQL


Python


RPG


Ruby


Scala


Swift


Terraform


Text


TypeScript

T-SQL

VB.NET

VB6

XML



Terraform static code analysis


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


All rules 50


Vulnerability 5

Security Hotspot 43


Code Smell 2

Tags 


Search by name... 

vulnerability


Allowing public ACLs or policies on a S3 bucket is security-sensitive

Security Hotspot


Authorizing HTTP communications with S3 buckets is security-sensitive

Security Hotspot


Using clear-text protocols is security-sensitive

Security Hotspot


Google Cloud load balancers SSL policies should not offer weak cipher suites

Vulnerability


Azure custom roles should not grant subscription Owner capabilities

Vulnerability


Excluding users or groups activities from audit logs is security-sensitive

Security Hotspot


Defining a short log retention duration is security-sensitive

Security Hotspot


Enabling Attribute-Based Access Control for Kubernetes is security-sensitive

Security Hotspot

Creating custom roles allowing privilege escalation is security-sensitive




Security Hotspot

Creating App Engine handlers without requiring TLS is security-sensitive

Security Hotspot

Excessive granting of GCP IAM

Policies authorizing public access to resources are security-sensitive

Security Hotspot Blocker aws cwe owasp

Resource-based policies granting access to all users can lead to information leakage.

Ask Yourself Whether

- The AWS resource stores or processes sensitive data.
- The AWS resource is not designed to be public.

There is a risk if you answered yes to any of those questions.

Recommended Secure Coding Practices

It's recommended to implement the least privilege principle, i.e. to grant necessary permissions only to users for their required tasks. In the context of resource-based policies, list the principals that need the access and grant to them only the required privileges.

Sensitive Code Example

This policy allows all users, including anonymous ones, to access an s3 bucket:

```
resource "aws_s3_bucket_policy" "mynoncompliantpolicy"
  bucket = aws_s3_bucket.mybucket.id
  policy = jsonencode({
    Id = "mynoncompliantpolicy"
    Version = "2012-10-17"
    Statement = [{
      Effect = "Allow"
      Principal = {
        AWS = "*"
      }
      Action = [
        "s3:PutObject"
      ]
      Resource: "${aws_s3_bucket.mybucket.arn}/*"
    }
  ]
})
```





Compliant Solution

This policy allows only the authorized users:

```
resource "aws_s3_bucket_policy" "mycompliantpolicy" {
  bucket = aws_s3_bucket.mybucket.id
```

https://rules.sonarsource.com/terraform/RSPEC-6270

1/2

permissions is security-sensitive
 Security Hotspot
Enabling project-wide SSH keys to access VM instances is security-sensitive
 Security Hotspot
Granting public access to GCP resources is security-sensitive
 Security Hotspot
Creating GCP SQL instances without requiring TLS is security-sensitive
 Security Hotspot
Creating DNS zones without DNSSEC enabled is security-sensitive

```
policy = jsonencode({
  Id = "mycompliantpolicy"
  Version = "2012-10-17"
  Statement = [{
    Effect = "Allow"
    Principal = {
      AWS = [
        "arn:aws:iam::${data.aws_caller_id
      ]
    }
    Action = [
      "s3:PutObject"
    ]
    Resource = "${aws_s3_bucket.mybucket.arn}/*"
  ]
})
}
```

See

- [OWASP Top 10 2021 Category A1](#) - Broken Access Control
- [AWS Documentation](#) - Grant least privilege
- [MITRE, CWE-732](#) - Incorrect Permission Assignment for Critical Resource
- [MITRE, CWE-284](#) - Improper Access Control
- [OWASP Top 10 2017 Category A5](#) - Broken Access Control

Available In:

