




 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... 


 Security Hotspot


Using unencrypted EFS file systems is security-sensitive




 Security Hotspot


Using unencrypted SQS queues is security-sensitive




 Security Hotspot


Using unencrypted SNS topics is security-sensitive




 Security Hotspot


Using unencrypted SageMaker notebook instances is security-sensitive




 Security Hotspot


Using unencrypted Elasticsearch domains is security-sensitive



 Security Hotspot

Using unencrypted RDS databases is security-sensitive



 Security Hotspot

Using unencrypted EBS volumes is security-sensitive

 Security Hotspot

Disabling logging is security-sensitive

 Vulnerability

Administration services access should be restricted to specific IP addresses

 Security Hotspot


Unversioned Google Cloud Storage buckets are security-sensitive


 Security Hotspot


Disabling S3 bucket MFA delete is security-sensitive

Using unencrypted EBS volumes is security-sensitive

Analyze your code

 Security Hotspot

 Major ?

 aws cwe owasp

Amazon Elastic Block Store (EBS) is a block-storage service for Amazon Elastic Compute Cloud (EC2). EBS volumes can be encrypted, ensuring the security of both data-at-rest and data-in-transit between an instance and its attached EBS storage. In the case that adversaries gain physical access to the storage medium they are not able to access the data. Encryption can be enabled for specific volumes or for [all new volumes and snapshots](#).

Ask Yourself Whether

- The disk contains sensitive data that could cause harm when leaked.
- There are compliance requirements for the service to store data encrypted.

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

Recommended Secure Coding Practices

It's recommended to encrypt EBS volumes that contain sensitive information. Encryption and decryption are handled transparently by EC2, so no further modifications to the application are necessary. Instead of enabling encryption for every volume it is also possible to enable encryption globally for a specific region.

Sensitive Code Example

For [aws_ebs_volume](#):

```
resource "aws_ebs_volume" "ebs_volume" { # Sensitive a
}
```

```
resource "aws_ebs_volume" "ebs_volume" {
  encrypted = false # Sensitive
}
```

For [aws_ebs_encryption_by_default](#):






```
resource "aws_ebs_encryption_by_default" "default_encry
  enabled = false # Sensitive
}
```

For [aws_launch_configuration](#):

```
resource "aws_launch_configuration" "launch_configurati
  root_block_device { # Sensitive as encryption is dis
  }
  ebs_block_device { # Sensitive as encryption is disa
```

https://rules.sonarsource.com/terraform/RSPEC-6275

1/2

 Security Hotspot
Disabling versioning of S3 buckets is security-sensitive  Security Hotspot
Disabling server-side encryption of S3 buckets is security-sensitive  Security Hotspot
AWS tag keys should comply with a naming convention  Code Smell
Terraform parsing failure  Code Smell

```
}  
}  
  
resource "aws_launch_configuration" "launch_configurati  
  root_block_device {  
    encrypted = false # Sensitive  
  }  
  ebs_block_device {  
    encrypted = false # Sensitive  
  }  
}
```

Compliant Solution

For [aws_ebs_volume](#):

```
resource "aws_ebs_volume" "ebs_volume" {  
  encrypted = true  
}
```

For [aws_ebs_encryption_by_default](#):

```
resource "aws_ebs_encryption_by_default" "default_encry  
  enabled = true # Optional, default is "true"  
}
```

For [aws_launch_configuration](#):

```
resource "aws_launch_configuration" "launch_configurati  
  root_block_device {  
    encrypted = true  
  }  
  ebs_block_device {  
    encrypted = true  
  }  
}
```

See

- [OWASP Top 10 2021 Category A4](#) - Insecure Design
- [OWASP Top 10 2021 Category A5](#) - Security Misconfiguration
- [Amazon EBS encryption](#)
- [OWASP Top 10 2017 Category A3](#) - Sensitive Data Exposure
- [OWASP Top 10 2017 Category A6](#) - Security Misconfiguration
- [MITRE, CWE-311](#) - Missing Encryption of Sensitive Data

Available In:
 | 