




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


Security Hotspot


Using unencrypted SQS queues is security-sensitive

Security Hotspot


Security Hotspot


Using unencrypted SNS topics is security-sensitive

Security Hotspot


Security Hotspot


Using unencrypted SageMaker notebook instances is security-sensitive

Security Hotspot


Security Hotspot

Using unencrypted Elasticsearch domains is security-sensitive

Security Hotspot

Security Hotspot

Using unencrypted RDS databases is security-sensitive

Security Hotspot

Security Hotspot

Using unencrypted EBS volumes is security-sensitive

Security Hotspot

Security Hotspot

Disabling logging is security-sensitive

Security Hotspot

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

Disabling Role-Based Access Control on Azure resources is security-sensitive

Security Hotspot

Major ?

cwe

owasp

azure

Disabling Role-Based Access Control (RBAC) on Azure resources can reduce an organization's ability to protect itself against access controls being compromised.

To be considered safe, access controls must follow the principle of least privilege and correctly segregate duties amongst users. RBAC helps enforce these practices by adapting the organization's access control needs into explicit role-based policies: It helps keeping access controls maintainable and sustainable.

Furthermore, RBAC allows operations teams to work faster during a security incident. It helps to mitigate account theft or intrusions by quickly shutting down accesses.

Ask Yourself Whether

- This Azure resource is essential for the information system infrastructure.
- This Azure resource is essential for mission-critical functions.
- Compliance policies require access to this resource to be enforced through the use of Role-Based Access Control.

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

Recommended Secure Coding Practices

- Enable Azure RBAC when the Azure resource supports it.
- For Kubernetes clusters, enable Azure RBAC if Azure AD integration is supported. Otherwise, use the built-in Kubernetes RBAC.






Sensitive Code Example

For [Azure Kubernetes Services](#):

```
resource "azurerm_kubernetes_cluster" "example" {
  role_based_access_control {
    enabled = false # Sensitive
  }
}

resource "azurerm_kubernetes_cluster" "example2" {
  role_based_access_control {
    enabled = true

    azure_active_directory {
      managed = true
      azure_rbac_enabled = false # Sensitive
    }
  }
}
```

 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

```
}  
}
```

For [Key Vaults](#):

```
resource "azurerm_key_vault" "example" {  
  enable_rbac_authorization = false # Sensitive  
}
```

Compliant Solution

For [Azure Kubernetes Services](#):

```
resource "azurerm_kubernetes_cluster" "example" {  
  role_based_access_control {  
    enabled = true  
  }  
}  
  
resource "azurerm_kubernetes_cluster" "example" {  
  role_based_access_control {  
    enabled = true  
  
    azure_active_directory {  
      managed = true  
      azure_rbac_enabled = true  
    }  
  }  
}
```

For [Key Vaults](#):

```
resource "azurerm_key_vault" "example" {  
  enable_rbac_authorization = true  
}
```

See

- [OWASP Top 10 2021 Category A1](#) - Broken Access Control
- [OWASP Top 10 2017 Category A5](#) - Broken Access Control
- [MITRE, CWE-668](#) - Exposure of Resource to Wrong Sphere

Available In:
