




Secrets


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C


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CloudFormation


COBOL


C#


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Flex


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Kotlin


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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

### Azure role assignments that grant access to all resources of a subscription are security-sensitive

 Security Hotspot  Major  azure

Azure RBAC roles can be assigned to users, groups, or service principals. A role assignment grants permissions on a predefined set of resources called "scope".

The widest scopes a role can be assigned to are:

- Subscription: a role assigned with this scope grants access to all resources of this Subscription.
- Management Group: a scope assigned with this scope grants access to all resources of all the Subscriptions in this Management Group.

In case of security incidents involving a compromised identity (user, group, or service principal), limiting its role assignment to the narrowest scope possible helps separate duties and limits what resources are at risk.

#### Ask Yourself Whether

- The user, group, or service principal doesn't use the entirety of the resources in the scope to operate on a day-to-day basis.
- It is possible to follow the Separation of Duties principle and split the scope into multiple role assignments with a narrower scope.

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

#### Recommended Secure Coding Practices

- Limit the scope of the role assignment to a Resource or Resource Group.
- Apply the least privilege principle by assigning roles granting as few permissions as possible.

#### Sensitive Code Example

```
resource "azurerm_role_assignment" "example" {
  scope           = data.azurerm_subscription.primary_id
  role_definition_name = "Reader"
  principal_id     = data.azuread_user.user.object_id
}
```

#### Compliant Solution

```
resource "azurerm_role_assignment" "example" {
  scope           = azurerm_resource_group.example.id
  role_definition_name = "Reader"
  principal_id     = data.azuread_user.user.object_id
}
```

https://rules.sonarsource.com/terraform/RSPEC-6387

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<div>Security Hotspot</div> <div>Disabling versioning of S3 buckets is security-sensitive</div> <div>Security Hotspot</div> <div>Disabling server-side encryption of S3 buckets is security-sensitive</div> <div>Security Hotspot</div> <div>AWS tag keys should comply with a naming convention</div> <div>Code Smell</div> <div>Terraform parsing failure</div> <div>Code Smell</div>	<div>See</div> <div><ul style="list-style-type: none"><li><a href="#">OWASP Top 10 2021 Category A1</a> - Broken Access Control</li><li><a href="#">OWASP Top 10 2021 Category A4</a> - Insecure Design</li><li><a href="#">OWASP Top 10 2017 Category A5</a> - Broken Access Control</li><li><a href="#">MITRE, CWE-266</a> - Incorrect Privilege Assignment</li><li><a href="#">Azure Documentation</a> - Understand scope for Azure RBAC</li><li><a href="#">Azure Documentation</a> - Best practices for Azure RBAC</li></ul></div> <div>Available In:</div> <div><div>sonardcloud</div><div></div><div>sonarqube</div></div>
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