

Local Values

ow

Overview

- In Terraform, local values are used to define intermediate values within a configuration that can be reused multiple times.
- Local values are similar to variables, but they are not meant to be passed as input or configured externally.
- They are internal to the configuration and are primarily used to simplify expressions, enhance readability, and avoid code duplication.

example

```
locals {  
  region      = "us-west-2"  
  instance_count = 3  
  instance_type = "t2.micro"  
  instance_tags = {  
    Environment = "production"  
    Owner       = "John Doe"  
  }  
}
```

..

In this example, we define a locals block that contains multiple local values:

region: Represents the AWS region as a string.

instance_count: Specifies the number of instances as a number.

instance_type: Represents the instance type as a string.

instance_tags: Defines a map of tags for the instances.

How to use in resource block

```
resource "aws_instance" "example" {  
  count          = local.instance_count  
  instance_type = local.instance_type  
  tags          = local.instance_tags  
  region        = local.region  
  
  # Other resource configurations...  
}
```

In this example, we use the local values within an `aws_instance` resource block. The `count` argument is set to the value of `local.instance_count`, and the other attributes are set accordingly.

Use local values in output block

```
output "instance_names" {  
    value = [for i in range(local.instance_count) : "instance-${i+1}"]  
}
```

In this example, we use the `local.instance_count` value within a range function to generate a list of instance names.