

example to illustrate the limited visibility of computed values in Terraform, using the `aws_instance` resource for an EC2 instance:

```
``hcl
provider "aws" {
  region = "us-west-2"
}

resource "aws_instance" "example" {
  ami      = "ami-0c94855ba95c71c99"
  instance_type = "t2.micro"
  tags = {
    Name = "example-instance"
  }
}

output "public_ip" {
  value = aws_instance.example.public_ip
}
``
```

In this example, we have defined an EC2 instance resource with an AMI, instance type, and tags. The `aws_instance.example` resource is created based on these configurations.

Now, let's focus on the `output` block. Here, we want to display the public IP address of the EC2 instance. The `public_ip` output references `aws_instance.example.public_ip`, which is a computed value representing the public IP address assigned to the EC2 instance by AWS.

The challenge with computed values is that they are not explicitly visible or configurable in the Terraform code. In this example, we don't define the `public_ip` directly in the `aws_instance` resource block. Instead, it is automatically determined by AWS during the instance creation process.

The computed value `aws_instance.example.public_ip` is resolved by Terraform and made available for output purposes. However, it is not configurable or directly accessible within the Terraform configuration.

To work with the computed value, we use the `output` block to expose it. When we run `terraform apply`, Terraform will create the EC2 instance, capture its public IP address, and display it as part of the output.

To access the computed value in the output, you can use the following command after applying the configuration:

```
...  
  
terraform output public_ip  
  
...
```

This will display the public IP address of the EC2 instance.

So, in this example, the computed value of the EC2 instance's public IP address is not directly visible or configurable in the Terraform code. It is only made accessible through the `output` block for visibility and further use within your Terraform workflow.