

EXAMPLE CODE

As a reminder, you can find all of the code examples in the book [on GitHub](#).

Loops

Terraform offers several different looping constructs, each intended to be used in a slightly different scenario:

- `count` parameter, to loop over resources and modules
- `for_each` expressions, to loop over resources, inline blocks within a resource, and modules
- `for` expressions, to loop over lists and maps
- `for` string directive, to loop over lists and maps within a string

Let's go through these one at a time.

Loops with the `count` Parameter

In [Chapter 2](#), you created an AWS Identity and Access Management (IAM) user by clicking around the Console. Now that you have this user, you can create and manage all future IAM users with Terraform. Consider the following Terraform code, which should live in *live/global/iam/main.tf*:

```
provider "aws" {
    region = "us-east-2"
}

resource "aws_iam_user" "example" {
    name = "neo"
}
```

This code uses the `aws_iam_user` resource to create a single new IAM user. What if you want to create three IAM users? In a general-purpose programming language, you'd probably use a for-loop: