Deploying Your First Terraform Configuration

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Overview

Automating infrastructure

What's the scenario?
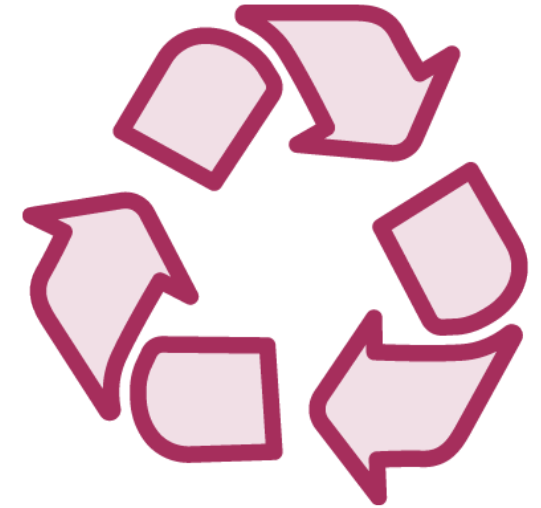
Terraform: "Hello world"

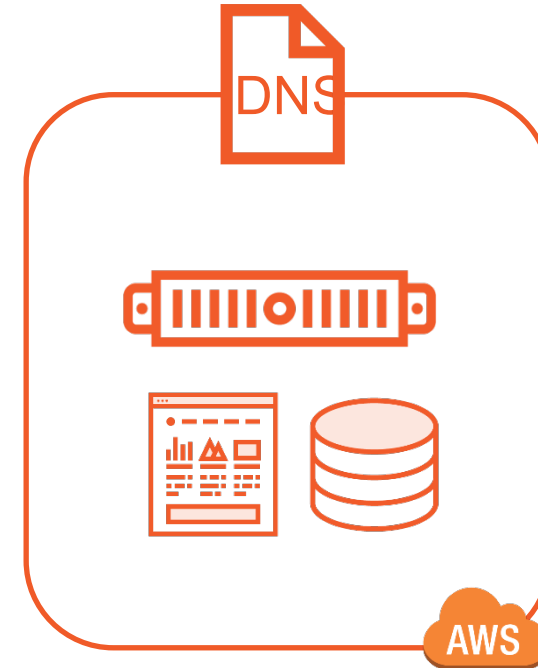# Automating Infrastructure Deployment

Provisioning Resources

Planning Updates

Using Source Control
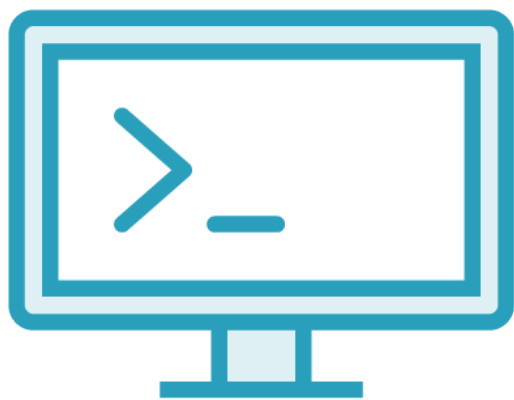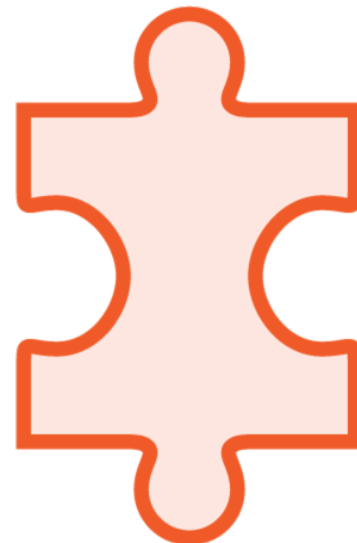
Reusing Templates

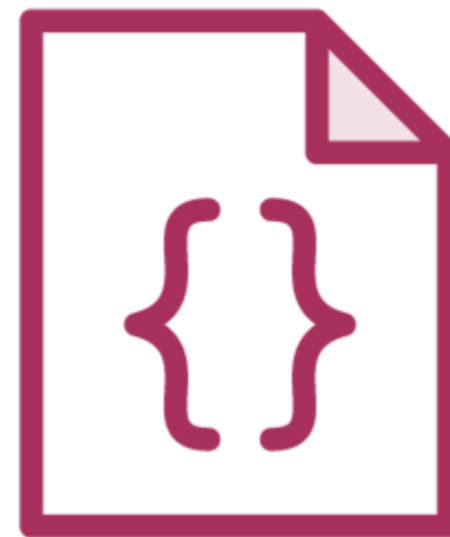# The Scenario

Terraform Components

Terraform executable

Terraform files

Terraform plugins

Terraform state

```
variable "aws_access_key" {}
variable "aws_secret_key" {}

variable "aws_region" {
  default = "us-east-1"
}



provider "aws" {

  access_key = "var.access_key"
  secret_key = "var.secret_key"
  region = "var.aws_region"

}
```

◄ **Variables**

◄ **Provider**

```
data "aws_ami" "alx" {
  most_recent = true
  owners = ["amazon"]
  filters {}
}

resource "aws_instance" "ex"{
  ami = "data.aws_ami.alx.id"
  instance_type = "t2.micro"
}

output "aws_public_ip" {
  value =
  "aws_instance.ex.public_dns"
}
```

◄ **Data**

◄ **Resource**

◄ **Output**

Demo

Examine the Terraform file

Deploy the configuration

Review the results

Play along!
- AWS account
- Demo files

Some of the resources deployed in AWS may cost **money**. You've been warned.

Summary

Key components of a Terraform file

Deploying infrastructure
- Repeatable
- Consistent

Coming up
- Adding resources
- Planning updates