

Deploy your First Terraform Configuration

Scenario

For our real-world scenario, let's say that you're an AWS Systems Engineer at Techinya, which is an online training company. Your friend, Anil the developer, has requested that you provision a development environment for the new application he is working on. Now, the application is a basic two-tier application right now. It's got a web front end and a database back end, and a public DNS record. Your company has recently started using the public cloud for deploying new applications, and so you've decided to spin this environment up in AWS.

Terraform Components

Terraform
files

Terraform
plugins

Terraform
state

Variables

Provider

```
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"
```

```
}
```


Data

Resource

output

```
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"  
}
```

Demo



Examine the Terraform file



Deploy the configuration



Review the results



Play along!

- AWS account
- Demo files

Summary

- Key components of a Terraform file
- Deploying infrastructure
 - Repeatable
 - Consistent