

Hands-on Infrastructure Automation with Terraform on AWS

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Managing multiple environments

Section 6

Adding a new environment

Environments

Used to isolate deployment contexts from each other and limit the blast radius of any changes.

Section overview

- **Use file layout to add a new environment**
- Manage environments with Terraform workspaces
- Organise environment configuration using maps and variable files
- Manipulate state - rename, move, and import resources

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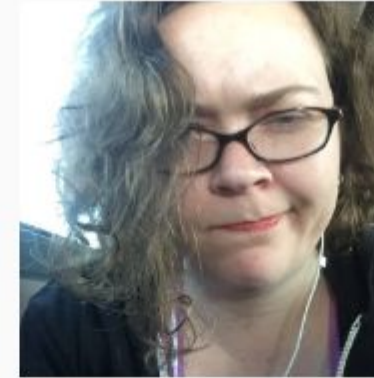
We will focus on plain
Terraform

File layout

```
module "test" {  
    source = "terraform-aws-modules/vpc/aws"  
}
```

File layout

```
module "test" {  
    source = "terraform-aws-modules/vpc/aws"  
}  
  
module "prod" {  
    source = "terraform-aws-modules/vpc/aws"  
    environment = "prod"  
}
```



CHARITY.WTF

TERRAFORM, VPC, AND WHY YOU WANT A TFSTATE FILE PER ENV

March 30, 2016

[mipsytipsy](#)

[postmortem](#), [terraform](#)

Hey kids! If you've been following along at home, you may have seen my earlier posts on [getting started with terraform](#) and figuring out what [AWS network topology](#) to use. You can think of this one as like if those two posts got drunk and hooked up and had a bastard hell child.

Some context: our terraform config had been pretty stable for a few weeks. After I got it set up, I hardly ever needed to touch it. This was an explicit goal of mine. (I have *strong feelings* about delegation of authority and not using your orchestration layer for configuration, but that's for another day.)

And then one day I decided to test drive Aurora in staging, and everything exploded.

<https://charity.wtf/2016/03/30/terraform-vpc-and-why-you-want-a-tfstate-file-per-env/>

Environment requirements

- Avoid duplicate code where possible
- Use separate Terraform state for each environment

Credentials for working with
state and for provisioning
resources can be different

Exploring Terraform workspaces

Next video