# 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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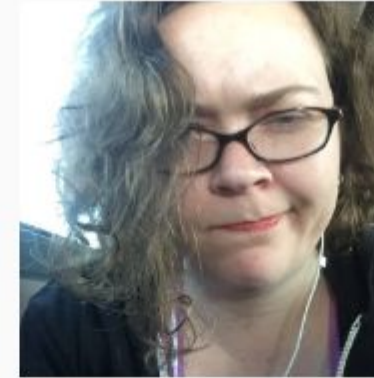
We will focus on plain Terraform

# 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"

}
```

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