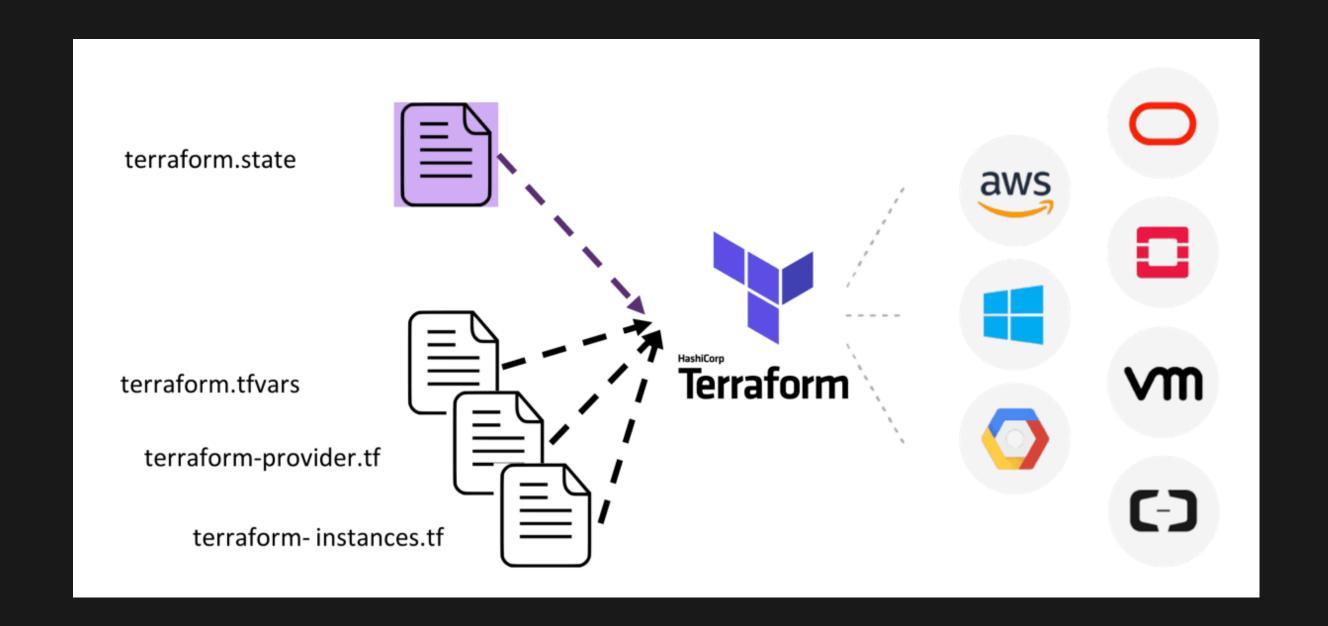
The Terraform & laC Bootcamp

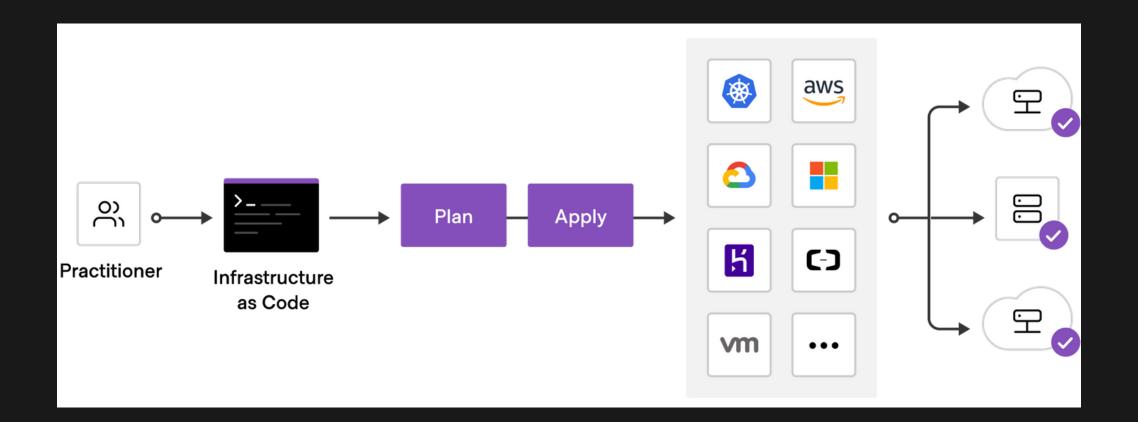






Terraform Fundamentals

- What is IaC, why is it important
- Understanding how Terraform works under the hood
- Important components of Terraform you need to know
- Terraform core workflow commands Using Terraform to interact with Infrastructure
- Creating resources with Terraform on AWS environment





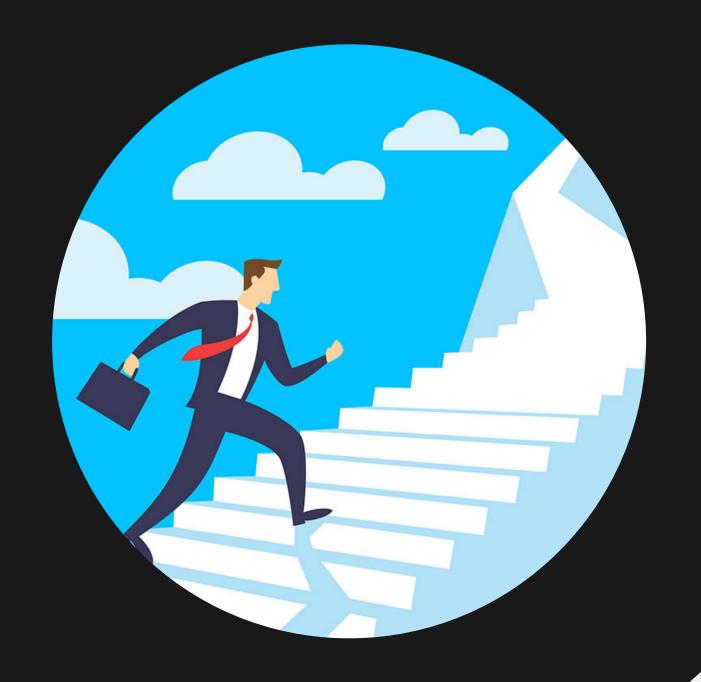
- We will be writing lots of code!
- No coding experience?
 - Don't worry this is not a programming course
 - Terraform uses HCL, an easy to read configuration language
 - No prior coding experience required, but helpful
- Core tenant of IaC is automation, automation, automation
- Everything is written in code
 - Allows for automation infrastructure provisioning
 - Easy documentation and auditing
 - Easy to work in team setting

```
resource "aws_instance" "main" {
provider = alias.west
ami = data.aws_ami.aws_linux_2.id
                             = "t3.small"
instance type
associate_public_ip_address = true
vpc_security_group_ids = [aws_security_group.allow_ssh.id]
ebs_block_device {
  device name = "/dev/sdf"
  volume_type = "gp2"
  volume size = "2"
tags = merge(local.tags, {
  Name : "levelup with terraform"
```



Course Goals

- Our goal is to turn you into a Terraform Professional
- Quickly ramp up with Terraform
- Speak confidently about IaC and Terraform
- Contribute to Terraform infrastructure at your work
- Advance your career by learning an in-demand skill



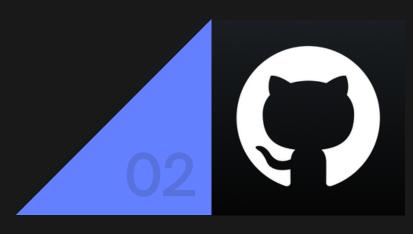




Terraform - IaC

Terraform as our IaC tool, automating the management and provisioning of infrastructure

Our Tech Stack



Github - Source Control

Stores our Terraform code for various hands-on assignments and projects



AWS - Cloud Environment

The main Cloud provider, where we create and manage AWS resources with Terraform



Course Prerequisites

- Writing lots of code, but no coding experience required!
- Leveraging AWS to provision infrastructure experience is helpful, but not required
 - Course does not cover AWS basics
 - Good to know high level overview of AWS
 - Must have an AWS account
 - We will make sure to not go over free tier limit always cleanup
- Github is our primary source control management system
 - Good to have basic Git experience, nothing crazy!
- An IDE is highly recommended
 - Preference is Visual Studio Code, but any IDE will work completely up to your preference

