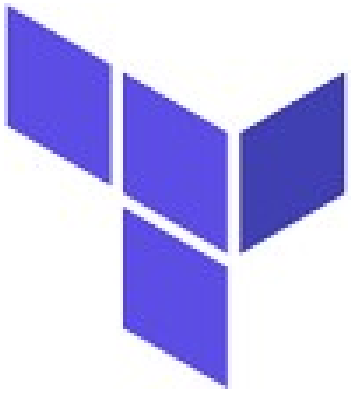
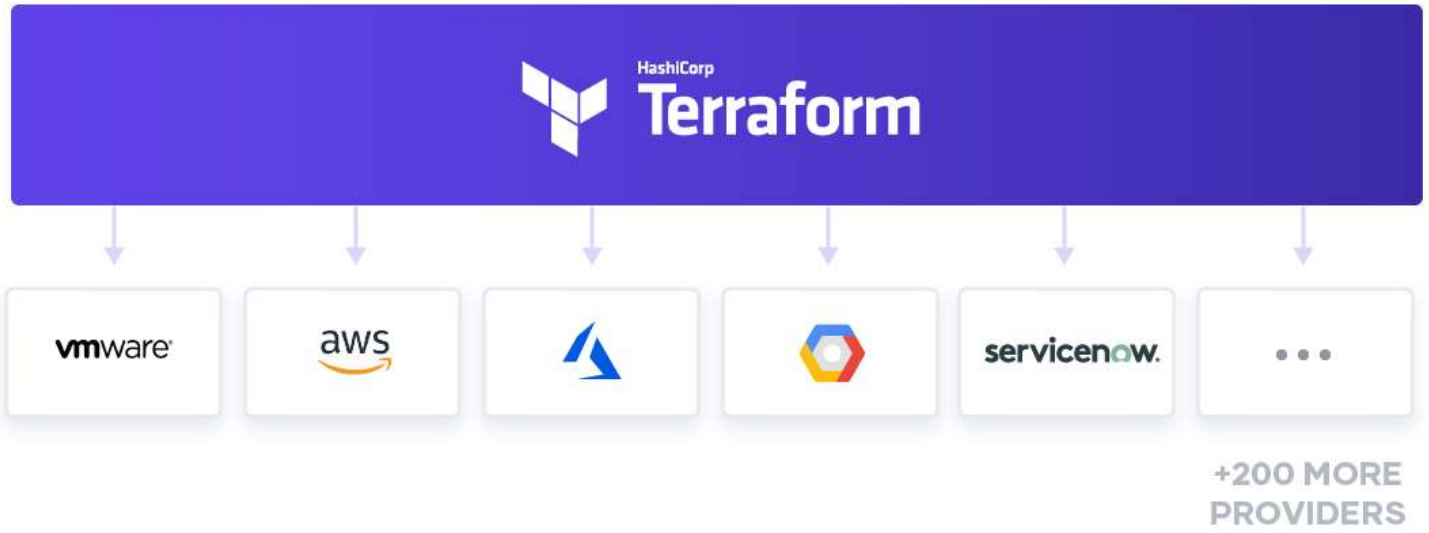


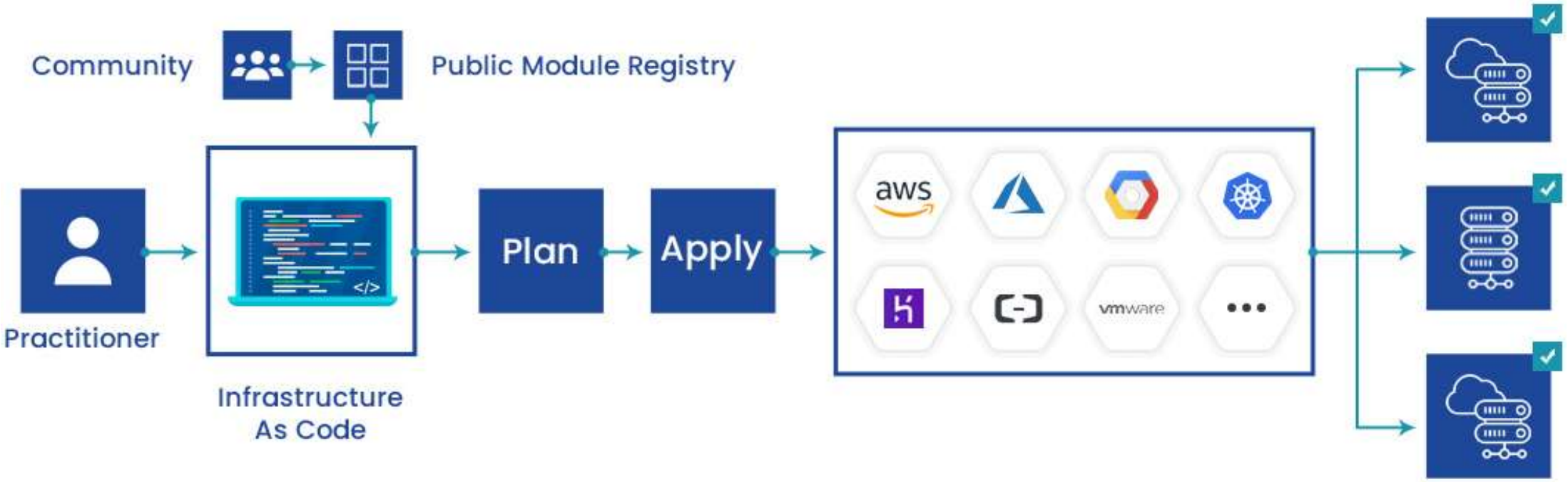
HashiCorp

Terraform

Introduction

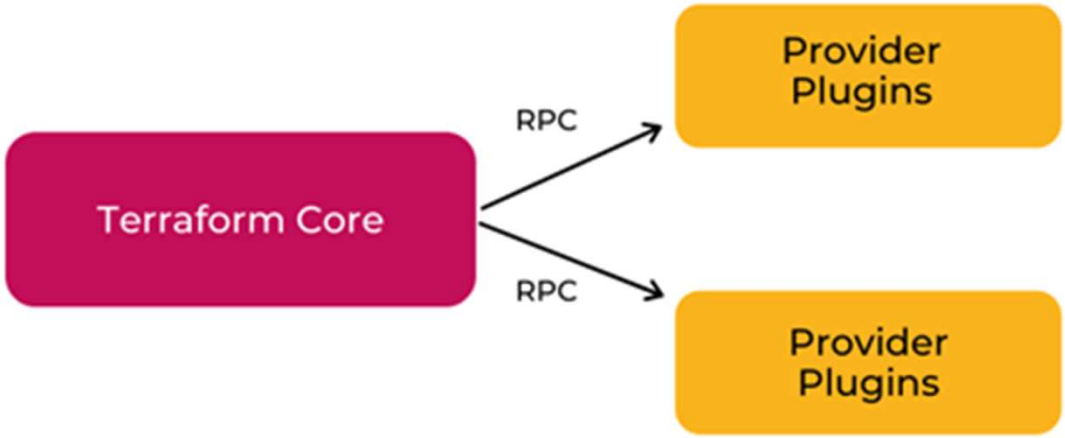


Introduction



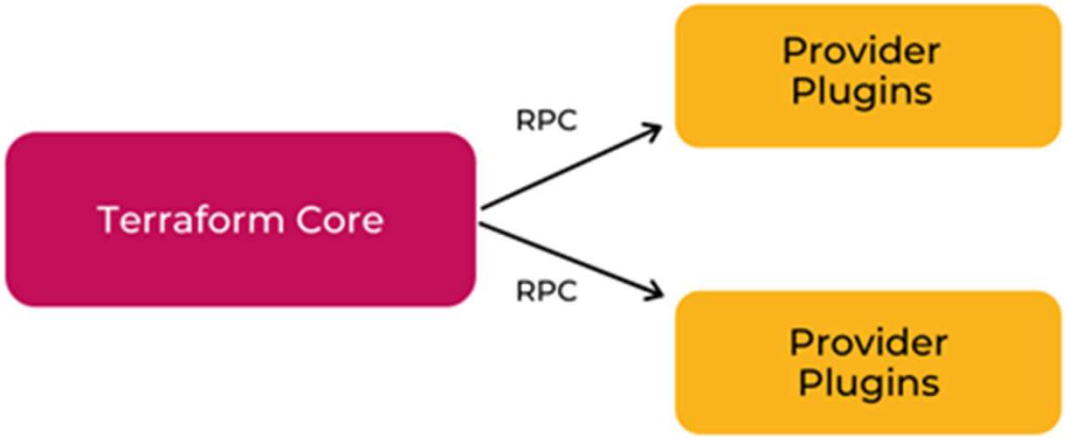
Terraform Core

- Written in the Go programming language
- The entry-point for anyone using Terraform
- Primary responsibilities
  - Reading configuration files
  - Resource state management
  - Construction of the Resource Graph
  - Plan execution
  - Communication with plugins



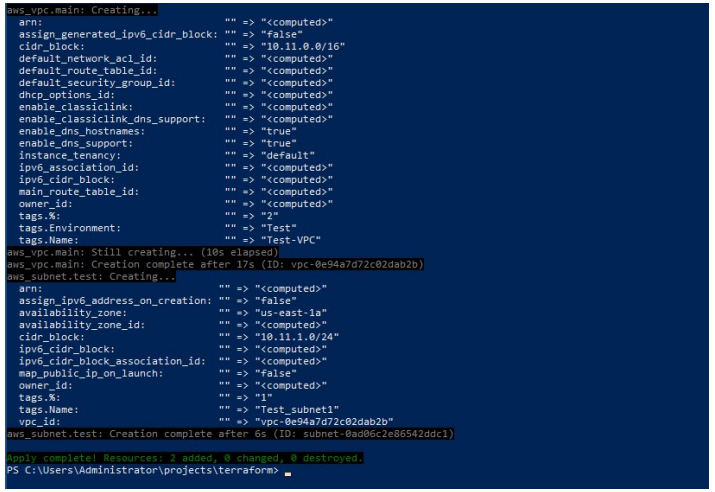
Terraform Plugins

- Each plugin exposes an implementation for a specific service
  - such as AWS, Azure
- Plugin Locations
  - ~/.terraform.d/plugins



Install Terraform

- curl -fsSL https://apt.releases.hashicorp.com/gpg | sudo apt-key add –
- sudo apt-add-repository "deb [arch=amd64] https://apt.releases.hashicorp.com $(lsb_release -cs) main“
- sudo apt-get update && sudo apt-get install terraform
- terraform –help
- terraform -install-autocomplete
- Refer: 0-Install-Terraform.md



An Introduction to Terraform Syntax

- Called HashiCorp Configuration Language (HCL)
- Human readable as well as machine-friendly

```
# An AMI
variable "ami" {
  description = "the AMI to use"
}

resource "aws_instance" "web" {
  ami           = "${var.ami}"
  count         = 2
connection {
    user = "root"
  }
}
```

thanks