Base Domain

Base Domain - Getting Started & Setting Up Labs

Module 1: Choosing a right Infrastructure as Code tool

1.1 Exploring Toolsets

There are various types of tools that can allow you to deploy infrastructure as code :

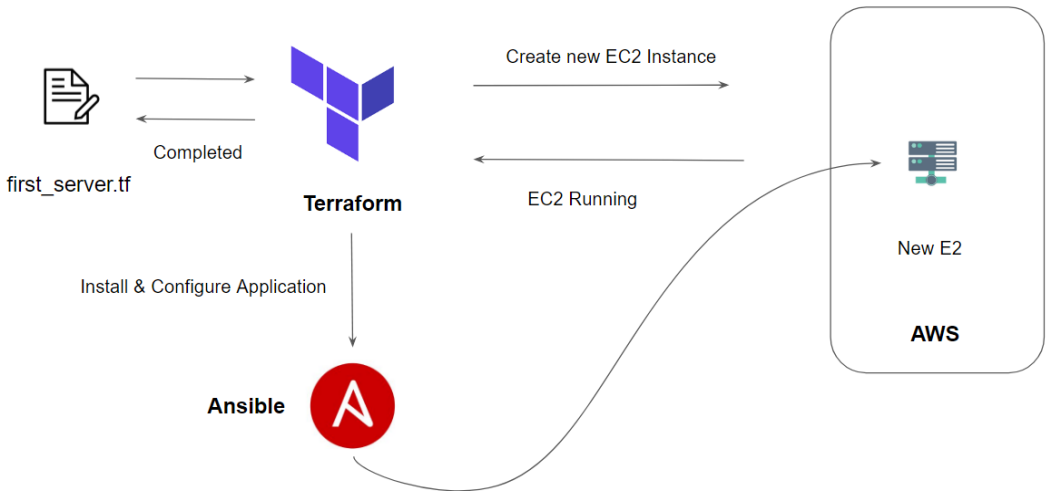
- Terraform
- CloudFormation
- Heat
- Ansible
- SaltStack
- Chef, Puppet and others

1.2 Configuration Management vs Infrastructure Orchestration

Ansible, Chef, Puppet are configuration management tools which means that they are primarily designed to install and manage software on existing servers.

Terraform, CloudFormation are the infrastructure orchestration tools which basically means they can provision the servers and infrastructure by themselves.

Configuration Management tools can do some degree of infrastructure provisioning, but the focus here is that some tools are going to be better fit for certain types of tasks.



1.3 Which tool to choose?

Question remains on how to choose right IAC tool for the organization

i) Is your infrastructure going to be vendor specific in longer term ? Example AWS.

ii) Are you planning to have multi-cloud / hybrid cloud based infrastructure ?

iii) How well does it integrate with configuration management tools ?

iv) Price and Support

1.4 Terraform

i) Supports multiple platforms, has hundreds of providers.

ii) Simple configuration language and faster learning curve.

iii) Easy integration with configuration management tools like Ansible.

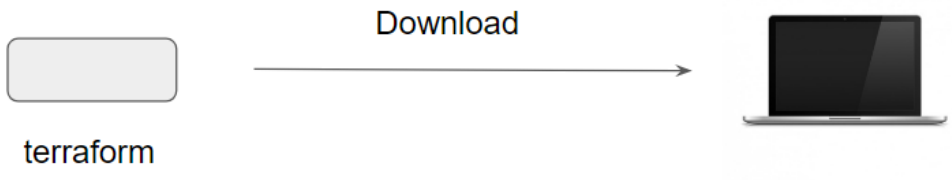
iv) Easily extensible with the help of plugins.

v) Free !!!

Module 2: Installation Process of Terraform

Terraform installation is very simple.

You have a single binary file, download and use it.



Terraform works on multiple platforms, these includes:

- Windows
- macOS
- Linux
- FreeBSD
- OpenBSD
- Solaris

You can download Terraform binary through the following link:

https://www.terraform.io/downloads

Module 3: Setting up the Lab

i) Create a new AWS Account.

ii) Begin the course