Terraform

What is terraform:-It is IAC-Infrastructure as code or infrastructure automation tool

1-it is open source maintained by HashiCorp

There are paid version of terraform

1-terraform cloud

2-terraform Enterprise

It has Declarative syntax

Language- HashiCorp Configuration Language or JSON

It uses pushed base deployment

No agent is required to install on remote machine.

There are four core components of terraform.

1-Executable file (.exe file) this is single binary file which contains all terraform functionality

2- Configuration file (terraform files that one can write using .tf extention)

3- Provider plugin -mainly this part provides API from the provider like AWS or Azure

4- State data this maintains the state of the infrastructure

**Installing Terraform**

1 Download the terraform executable.

2 Add the path to environment variable.