**Terraform**

* **Terraform** is the infrastructure as code, offering from HashiCorp.
* It is a tool for building, changing, and managing infrastructure in a safe,repeatable way.
* **IaC** is the process of managing infrastructure.
* Simple and human readable language.
* A **simple workflow** for deployment will follow closely to the steps below.
* **Scope:** Confirm what resources need to be created for a given Project.
* This state is used by Terraform to map real world resources to your configuration, keep track of metadata, and to improve performance for large infrastructures.
* A provider is responsible for understanding. Aws, Google cloud, Azure,docker, kubernetes..
* **Modules** a Terraform module is a set of Terraform configuration files in a single directory.
* **Backends a** "backend" in Terraform determines how state is loaded and how an operation such as <apply> is executed. By default, Terraform uses the "local" backend, which is the normal behavior of Terraform you're used to. Backends are completely optional.
* **Platform Agnostic;** you may have several different clouds and platforms to support your various applications.
* **State Management** Terraform creates **a state file** when a project is first initialized. Terraform uses this local state to create plans and make changes to your infrastructure.
* Aynı folder altındaki Xxxxx**.tf** uzantılı tüm dosyaları çalıştırır.

sudo yum update -y

sudo yum install -y yum-utils

sudo yum-config-manager --add-repo https://rpm.releases.hashicorp.com/AmazonLinux/hashicorp.repo

sudo yum -y install terraform

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terraform init

terraform plan Plan: 1 to add, 0 to change, 0 to destroy

terraform fmt

terraform apply

terraform graph

terraform destroy

terraform import aws\_security\_group.tf-sg sg-01b92e29e828a2177

terraform import "aws\_instance.tf-instances[1]" i-092fe70d1cef163c1

terraform-modules

   ├── dev

   │   └── dev-vpc.tf

   ├── modules

   │   ├── main.tf

   │   ├── outputs.tf

   │   └── variables.tf

   └── prod

       └── prod-vpc.tf



