



AWS Solutions Architect Associate

Session 701

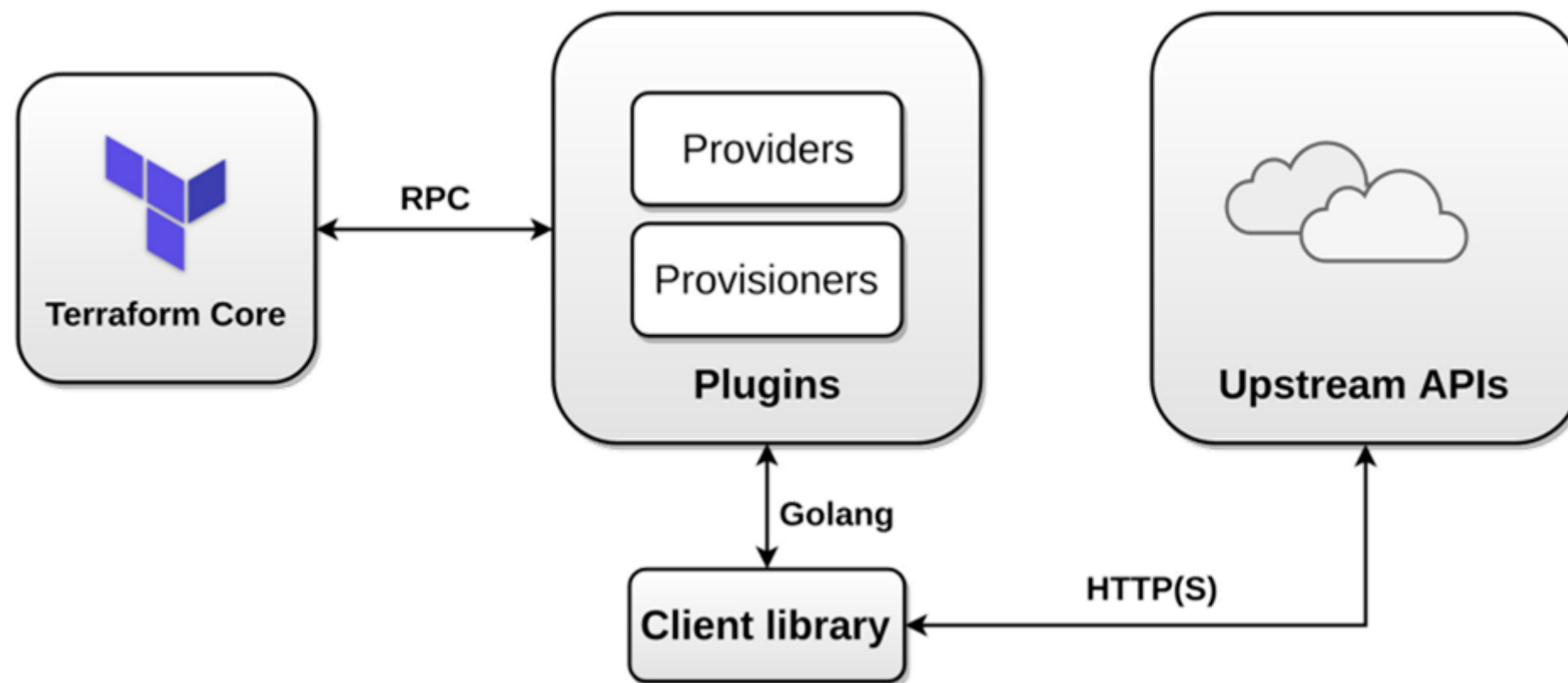
Terraform for AWS

July/2024



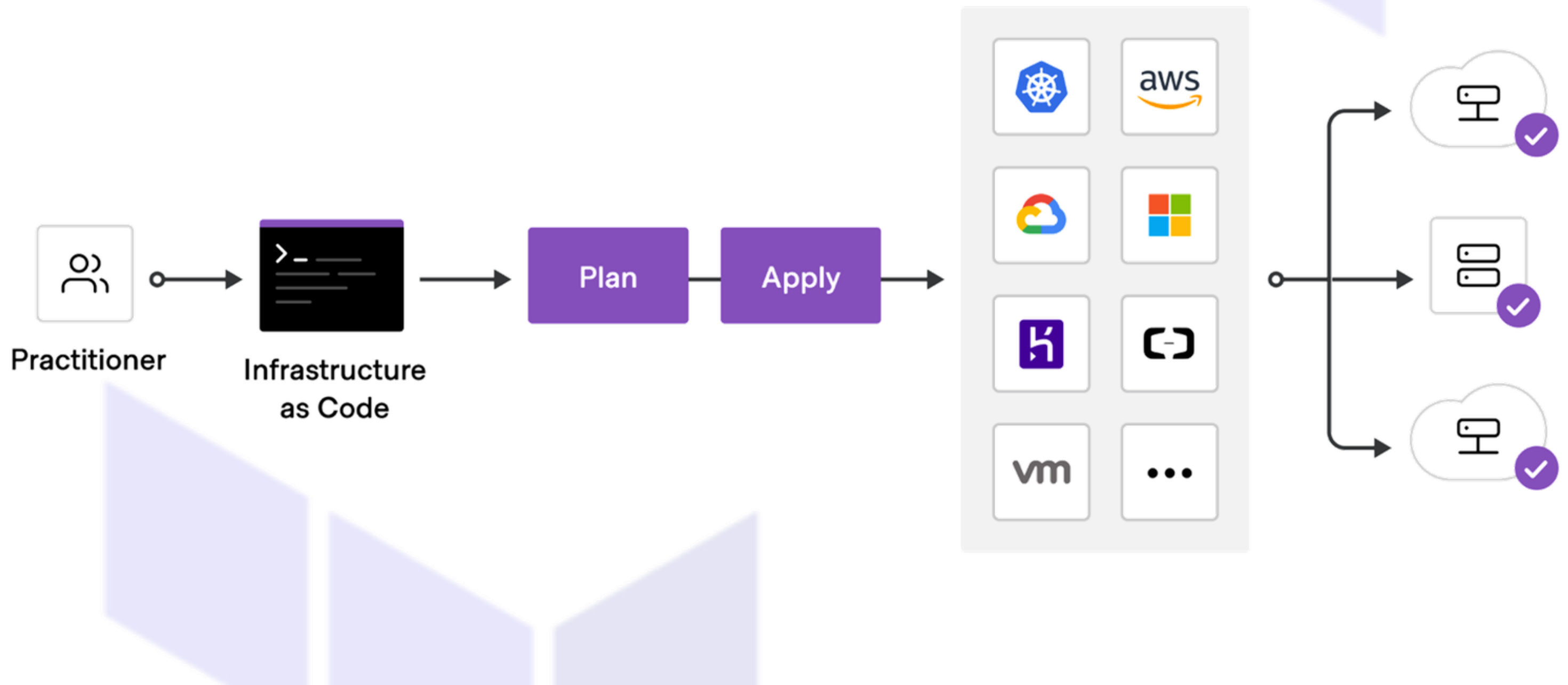
Terraform – Cloud Agnostic Tool *

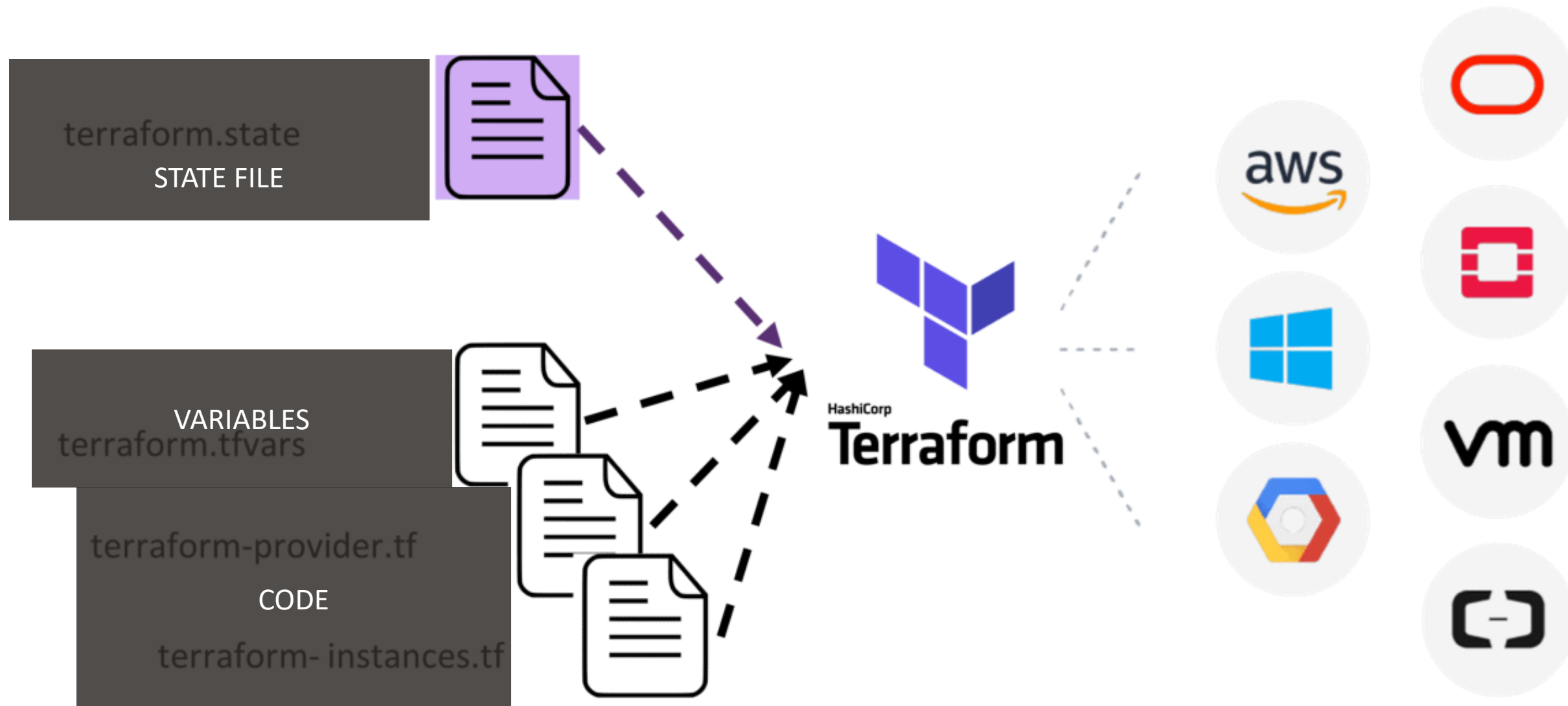
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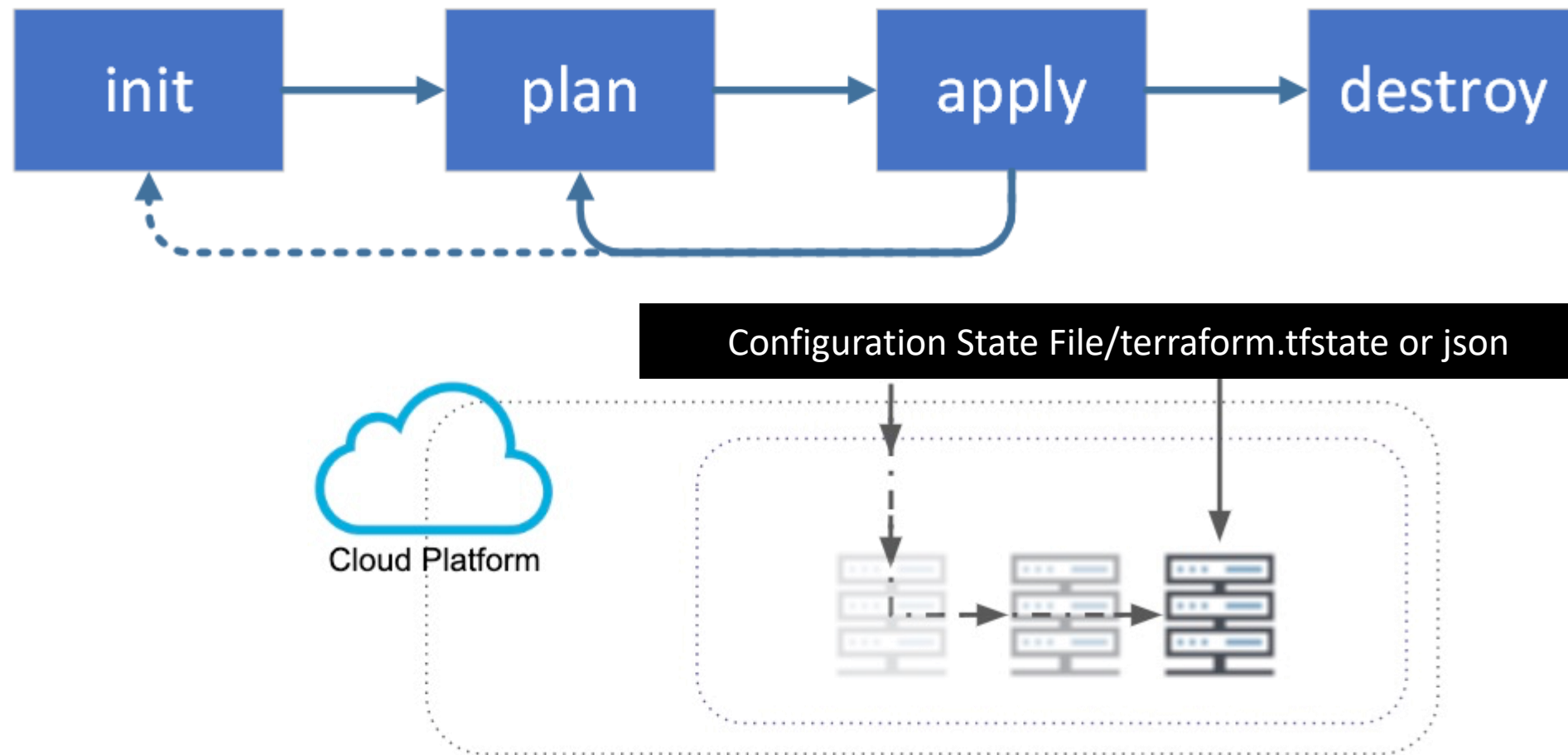


- It is not a golden bullet.
Provides a common language to orchestrate cloud resources and/or other providers.

HashiCorp Terraform







INPUT

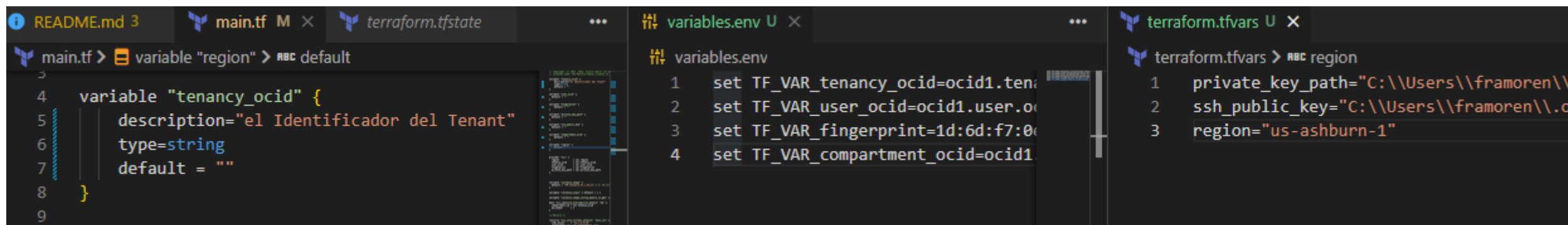
Define variables: from the CLI, file, environment variables.

Types of variables:

- * Simple: string, number, bool
- * Constructed: list, set, map, object, tuple.
- * Validation: regexp, null

OUTPUT

Attributes: Sensitive



```
main.tf > variable "region" > default
4 variable "tenancy_ocid" {
5     description="el Identificador del Tenant"
6     type=string
7     default = ""
8 }
9

variables.env
1 set TF_VAR_tenancy_ocid=ocid1.tenancy.ocid1.
2 set TF_VAR_user_ocid=ocid1.user.ocid1.
3 set TF_VAR_fingerprint=1d:6d:f7:0e
4 set TF_VAR_compartment_ocid=ocid1.

terraform.tfvars > region
1 private_key_path="C:\\Users\\framoren\\
2 ssh_public_key="C:\\Users\\framoren\\
3 region="us-ashburn-1"
```



```
provider "oci" {  
  register terraform {  
    required_providers {  
      aws = {  
        source = "hashicorp/aws"  
        version = "~> 4.16"  
      }  
    }  
  }  
  # See  
data  
  con  
  op  
  op  
  sha  
  sor  
  sor  
}  
/* Ne  
resou  
cid  
con  
dis  
dns  
}  
output  
val  
}  
}
```

variable
provider
data
resource
output

Module

Folder with code and has similar input and output

Terraform accesses TF files in the current folder only, does not enter to nested folders



< AWS

8 tutorials

Infrastructure as Code

Install

Build

Change

Destroy

Variables

Outputs

Remote state

Resources

Prerequisite: Region, default VPC, credentials

Workflow: Init, Apply,
Change AMI (Replace?)
Variables (Replace?)
Workflow: Destroy

Taken from
<https://developer.hashicorp.com/terraform/tutorials/aws-get-started/infrastructure-as-code>
(29/07/2024)