

Infra Generation - UI

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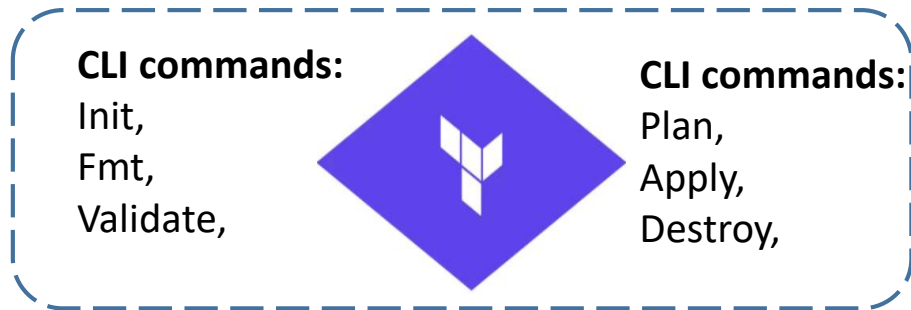
Terraform - CLI

To provision/uplift infra on
Cloud Environment using
Infrastructure As Code



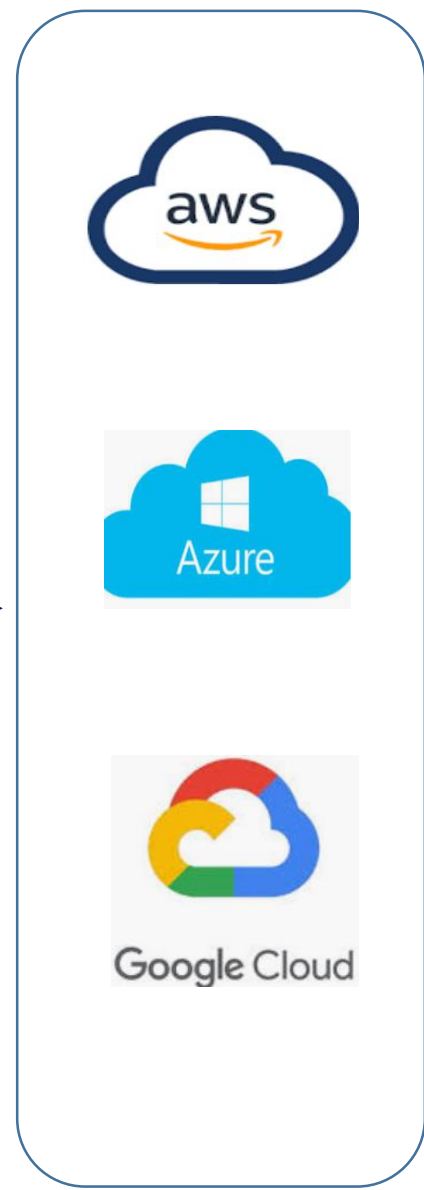
Terraform Files: (mostly fixed)
***.tf -> Actual magic happens**

Terraform Variables:
variables.tf -> Place holder variables for values used by *.tf files

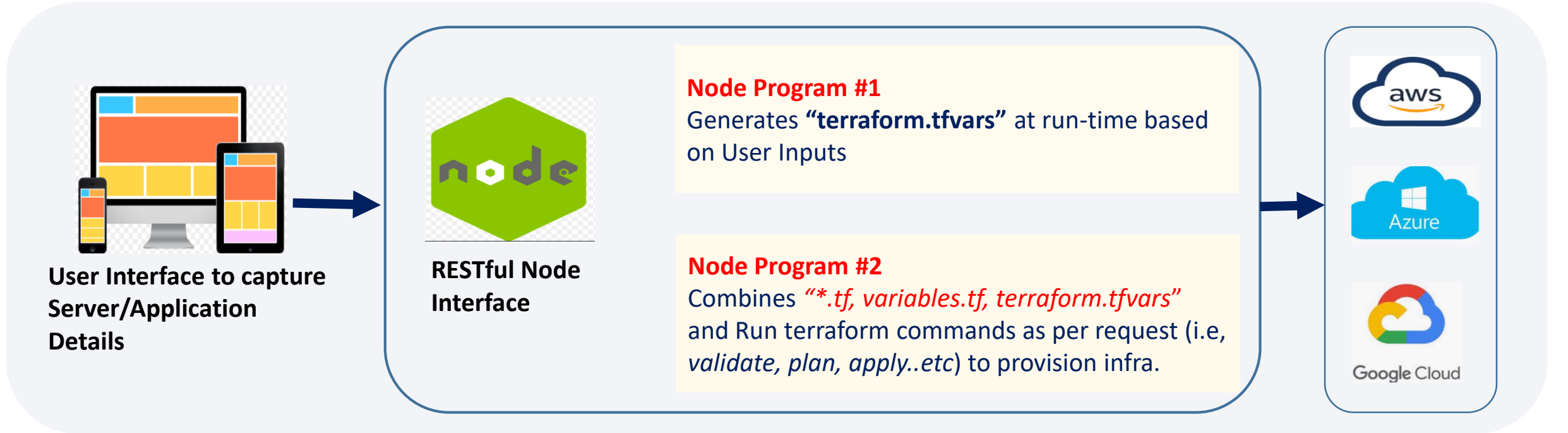
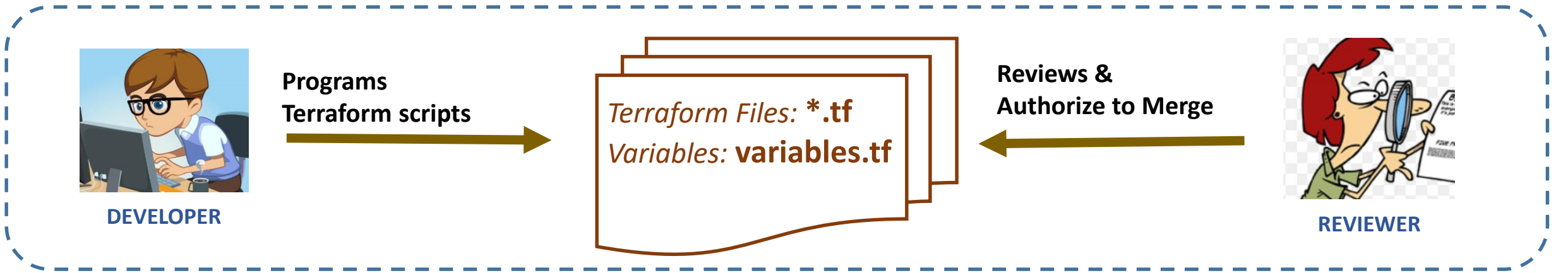


Terraform Runtime Values:
terraform.tfvars -> Runtime values to be sent to 'variables.tf' via this file.

This file will vary based on Application to Application based on input values.



Terraform - UI



UI – Submit : Infra Request

CREATE INFRA REQUEST

Application Name

firstproj

Application CI

firstproj

Appln Description

project infra on cloud

Requestor Id

venkat

Attachments

NA

Org Account

vkorg

Region

us-east-2

VPC

test-vpc-1

Subnet

test-subnet-1

CIDR range

10.0.0.0/16

Subnet Zone

us-east-2b

Server Stack

EK-Cloud-Ubuntu-Micro

Ports to Open

22,3000,8080,8092

Environment(s) *

☒ DEV

☐ TEST

☐ STAGE

☐ PROD

Choose Cloud *

☒ AWS

☐ AZURE

☐ GOOGLE

Error goes here...

Choose Software Stack *

☒ Jdk11

☒ Node9

☐ Jboss 8

☐ Tomcat 9

UI – Review : Infra Request

REVIEW INFRA REQUEST

Application Name

firstproj

Application CI

firstproj

Appln Description

project infra on cloud

Requestor Id

venkat

Attachments

DEV

INFRASTRUCTURE NAME	WAS	NOW
CLOUD	N/A	AWS
REGION	N/A	US-EAST-2
SERVER TAG	N/A	FIRSTPROJ-DEV
SERVER STACK	N/A	T2.MICRO
SERVER AMI	N/A	AMI-05C1FA8DF71875112
SERVER IP RANGE	N/A	10.0.0.0/16
VPC	N/A	TEST-VPC-1
SUBNET	N/A	TEST-SUBNET-1
SUBNET ZONE	N/A	US-EAST-2B
OPENED PORTS	N/A	22,3000,8080,8092

SOFTWARE NAME	WAS	NOW
NODEJS	N/A	NODE9
JAVA	N/A	JDK11

REJECT

VALIDATE

APPROVE

SCHEDULE

Server – Invoke Terraform APIs & Provision on AWS

CLI - logs

```
,0000,0092aws_vpc.vk_trfm_new_vpc: Still creating... [10s elapsed]
aws_vpc.vk_trfm_new_vpc: Creation complete after 16s [id=vpc-0dd957c4f0bd82e23]
aws_internet_gateway.vk_test_env_gw: Creating...
aws_subnet.vk_trfm_new_subnet: Creating...
aws_security_group.ingress_application_ports: Creating...
aws_security_group.ingress_ssh_connection: Creating...
aws_subnet.vk_trfm_new_subnet: Creation complete after 4s [id=subnet-0d5f1f1714a027de6]
aws_internet_gateway.vk_test_env_gw: Creation complete after 6s [id=igw-03b948c61c2852512]
aws_route_table.vk_route_table_test_env: Creating...
aws_security_group.ingress_application_ports: Creation complete after 8s [id=sg-025843e9dc96d98fe]
```

Provisioned on AWS - VPCs, Subnets, Routing Tables, Security Groups

Resources by Region [Refresh Resources](#)

You are using the following Amazon VPC resources

VPCs See all regions▼ Ohio 2	NAT Gateways See all regions▼ Ohio 0
Subnets See all regions▼ Ohio 4	VPC Peering Connections See all regions▼ Ohio 0
Route Tables See all regions▼ Ohio 3	Network ACLs See all regions▼ Ohio 2
Internet Gateways See all regions▼ Ohio 2	Security Groups See all regions▼ Ohio 6
Egress-only Internet Gateways See all regions▼ Ohio 0	Customer Gateways See all regions▼ Ohio 0
DHCP options sets Ohio 1	Virtual Private Gateways Ohio 0

EC2 Micro : Provisioned on AWS and tagged as per input-<env>

Filter by tags and attributes or search by keyword

	Name	Instance ID	Instance Type	Availability Zone	Instance State	Status C
	firstproj-DEV	i-03ed8a62681e31c9e	t2.micro	us-east-2b	pending	Initi

Thanks