step 1 : now lets pass some data for the vm to install apache2 into the vm

copy and paste the below command for this

provider "aws" {

region = "ap-southeast-2"

access\_key = "AKIAZXOZQZJXWHUOPNS4"

secret\_key = "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"

}

resource "aws\_instance" "ajay-server" {

ami = "ami-0567f647e75c7bc05"

instance\_type = "t2.micro"

key\_name = "new-key"

user\_data = <<-EOF

#!/bin/bash

sudo apt-get update

sudo apt-get install apache2 -y

sudo service apache2 restart

EOF

}

resource "aws\_key\_pair" "ajay-key" {

key\_name = "new-key"

public\_key = "ssh-rsa AAAAB3NzaC1yc2EAAAABJQAAAQEAvAKxdxtd0aLk1xGHLDUYlUi70pMKAiJy24FseX2XcGn76BNiARaHYrxotktoMB/KWA0QIltKO504Boq8+qZB1HWhDhom0IyRHAbrrwN30WD1saRDbQ8mmz2Hf6P7tgIah6699xChSfRtS+ik72e340oIv5ZyNVS85UEU8ylw3WVOjOklidzXH5sezvR/9S8jYFYdqGNtUsZia6alx7RdWCB3z4e+Ku9mWub89DfB7+OGnmsAUqvqFYZRGshpmo5ibPAwbRt5RPRrn2fwrW2dKDBKuw6RqAPJ/gbIWHbwqAzAFfGyDqAxyDphXnOU1zarG7reT6GJj5wIkvFOIV1pKQ== rsa-key-20210620"

}

step 2: run below command to initiate connection to your aws account

terraform init

step 3: run below command to know what is the terraform going to change in your aws environment

terraform plan

step 4 : run below command to deploy vm in your account in the region you specified and wait for it to create and go and verify it got created

terraform apply

when prompted enter a value

type yes

step 5 : go to vm dashboard get the public ip address and do ssh to the vm

step 6 : run service apache2 status to see that apache2 is installed on the vm and notice apache2 is installed and running

also run below command to see the user data is copied inside the vm

curl <http://169.254.169.254/latest/user-data>

output like below you should see

#!/bin/bash

sudo apt-get update

sudo apt-get install apache2 -y

sudo service apache2 restart