How can you implement Infrastructure as code with Terraform in a CI/CD Pipeline

Ans)

pipeline

{

agent any

environment {

TF\_VAR\_aws\_access\_key\_id=credentials('aws\_access\_key')

TF\_VAR\_aws\_secret\_access\_key=credentials('aws\_secret\_access\_key')

TF\_VAR\_region='us-east-1'

stages{

stage('Checkout code ')

{

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}

}

stage('Install Terraform')

{

steps{

script{

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}

}

}

stage('Terraform init')

{

steps{

script{

sh 'terraform init'

}

}

}

stage('Terraform Plan')

{

steps{

script{

sh 'terraform plan -out=tfplan'

}

}

}

stage('Terraform apply')

{

steps{

script{

sh 'terraform apply -auto-approve tfplan'

}

}

}

2) Difference between count and for-each

3) How do you implement a multi cloud infrastructure with Terraform

Ans) separate providers block, variables, modules

4) what is Terraform drift

Ans) preventive measures- terraform plan terraform refresh

5) How to secure sensitive data in Terraform

Ans) output "out"{ value='' **sensitive= true** } using env variables Terraform cloud, AWS secret manager, Hashicorp vault, Azure key vault