MONOLITHIC PROJECT

STEP-1: Launch an instance (t2.medium & 20 gb ebs) with key-pair, 8080 port and IAM Admin role

STEP-2: install terraform and write a terraform code to launch an instance with same key-pair.

STEP-3: push that code into GitHub.

STEP-4: setup Jenkins in our server.

STEP-5: create a job in Jenkins (Automate terraform) to launch an instance.

STEP-6: install Ansible and its dependencies(python-pip, level, openssl and pip install boto3)

STEP-7: write a plugin for getting prod server details

STEP-8: allow all permissions for Ansible configuration on prod servers

STEP-9: make ssh connection b/w the server through pem file

STEP-10: write a script to automate the configuration on prod servers.

STEP-2: INSTALL TERRAFORM

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

 yum install terraform -y

STEP-5:

1.
   Choice parameters
2.
   Integrate GitHub repo
3.
   Shell:

```bash
#!/bin/bash

set -xe


cd /var/lib/jenkins/workspace/j1/Terraform


terraform init

terraform plan

terraform $tf_action -auto-approve


sleep 20


if [ $TERRAFORM_ACTION = "destroy" ]; then

   exit 0

else

   cd ../Ansible

   ansible-playbook -i /opt/ansible/inventory/aws_ec2.yml deployment.yml

fi
```

STEP-6,7,8,9:

amazon-linux-extras install ansible2 -y

yum install python python-pip python-level openssl -y

pip install boto3

vi /etc/ansible/ansible.cfg

-

        inventory   = /opt/ansible/inventory/aws_ec2.yml

-

        host_key_checking = False

-

          enable_plugins = aws_ec2 (line-330)

-

           Vim keypair.yml

Mkdir -p /opt/ansible/inventory

Vim aws_ec2.yml

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plugin: aws_ec2

regions:

 - ap-south-1

filters:

 tag:Environment: dev

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