Platform Engineer Assignment

1. Running Terraform Commands and Verifying Deployment

Navigate to terraform directory in the terminal and run *terraform init*

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

• hareenhelanjith@Helanjiths-MacBook-Air terraform % terraform init
Initializing the backend...
Initializing modules...
Initializing provider plugins...
- Reusing previous version of hashicorp/aws from the dependency lock file
- Using previously-installed hashicorp/aws v5.94.1

Terraform has been successfully initialized!

You may now begin working with Terraform. Try running "terraform plan" to see any changes that are required for your infrastructure. All Terraform commands should now work.

If you ever set or change modules or backend configuration for Terraform, rerun this command to reinitialize your working directory. If you forget, other commands will detect it and remind you to do so if necessary.

❖ hareenhelanjith@Helanjiths-MacBook-Air terraform % ■
```

Terraform Apply

terraform apply -auto-approve (If you want to manually approve, omit -auto-approve)

```
charemhelanjithgelanjith-duckbock-dir terraform % terraform apply -auto-approve data.aws_caller_identity.current: Read complete after 0s [id=381492865416]

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols: created

Terraform will perform the following actions:

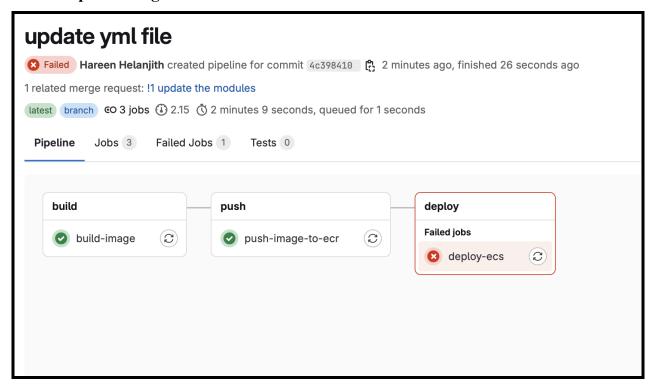
# module.cloudwatch.aws_cloudwatch_log_group.ecs_logs will be created

+ resource "aws_cloudwatch_log_group."ecs_logs" "ecs_logs" "ec
```

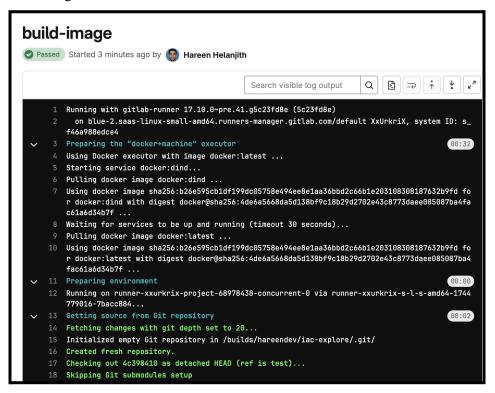
Verifying Service Creation

```
module.vpc.aws_subnet.public: Still creating... [10s elapsed]
module.vpc.aws_subnet.public: Creation complete after 13s [id=subnet-03638a4defe84f871]
module.vpc.aws_note_table_association, public: Creating...
module.vpc.aws_note_table_association.
module.vpc.aws_note_table_association.public: Creating...
module.vpc.aws_note_table_association.public: Creating...
libs elapsed]
module.vpc.aws_nat_gateway.nat: Still creating... [10s elapsed]
module.vpc.aws_nat_gateway.nat: Still creating... [20s elapsed]
module.vpc.aws_nat_gateway.nat: Still creating... [30s elapsed]
modu
```

2. Pipeline Stage Execution

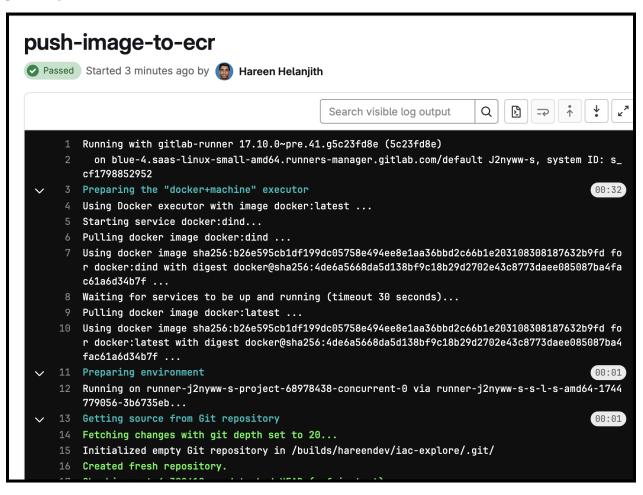


build Stage Execution



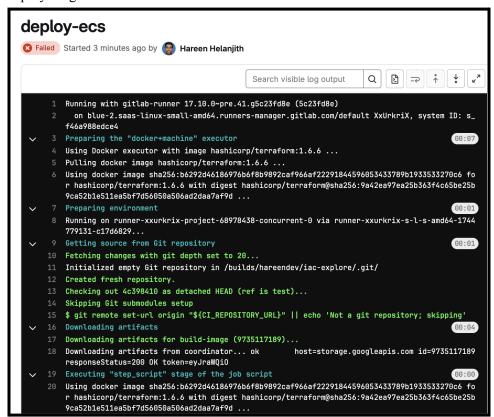
```
108 #10 naming to docker.io/library/my-sample-app-v1:latest done
   109 #10 DONE 0.2s
   110 $ docker images
  111 REPOSITORY
                          TAG
                                   IMAGE ID
                                                  CREATED
                                                                 SIZE
   112 my-sample-app-v1
                          latest
                                   a9eb491c8444
                                                                 136MB
                                                  1 second ago
   113 $ mkdir -p image
   114 $ docker save "$IMAGE_NAME:$IMAGE_TAG" > image/docker-image.tar
115 Uploading artifacts for successful job
                                                                                             00:07
   116 Uploading artifacts...
   117 image/docker-image.tar: found 1 matching artifact files and directories
  118 Uploading artifacts as "archive" to coordinator... 201 Created id=9735117189 responseStatus=
       201 Created token=eyJraWQi0
119 Cleaning up project directory and file based variables
                                                                                             00:01
   120 Job succeeded
```

push Stage Execution



```
98 $ docker tag "$IMAGE_NAME:$IMAGE_TAG" "$ECR_REPOSITORY_URL:$IMAGE_TAG"
 99 $ docker push "$ECR_REPOSITORY_URL:$IMAGE_TAG"
100 The push refers to repository [381492065416.dkr.ecr.us-east-1.amazonaws.com/terraform-aws-ass
     ignment-dev-repo]
101 a4f0cc43bafd: Preparing
102 86a781257000: Preparing
103 08c444ad2c6a: Preparing
105 7ad524989e4f: Preparing
106 e0cc49235ebd: Preparing
107 185439f46b41: Preparing
108 ea680fbff095: Preparing
109 185439f46b41: Waiting
110 e0cc49235ebd: Waiting
111 ea680fbff095: Waiting
112 08c444ad2c6a: Pushed
113 072b6ffd2703: Pushed
115 86a781257000: Pushed
    a4f0cc43bafd: Pushed
117 185439f46b41: Pushed
118 e0cc49235ebd: Pushed
119 ea680fbff095: Pushed
120 latest: digest: sha256:84d3621367259cf3bdef5a560f4a3b96dc8e8adde7fd60b79238326d877ef066 size:
     1990
121 Cleaning up project directory and file based variables
                                                                                      00:01
122 Job succeeded
```

deploy Stage Execution



on blue-2.saas-linux-small-amd64.runners-manager.gitlab.com/default XxUrkriX, system ID: s_ f46a988edce4 3 Preparing the "docker+machine" executor 00:07 Using Docker executor with image hashicorp/terraform:1.6.6 ... 5 Pulling docker image hashicorp/terraform:1.6.6 ... 6 Using docker image sha256:b6292d46186976b6f8b9892caf966af22291844596053433789b1933533270c6 fo r hashicorp/terraform:1.6.6 with digest hashicorp/terraform@sha256:9a42ea97ea25b363f4c65be25b 9ca52b1e511ea5bf7d56050a506ad2daa7af9d ... 00:01 7 Preparing environment 8 Running on runner-xxurkrix-project-68978438-concurrent-0 via runner-xxurkrix-s-l-s-amd64-1744 779131-c17d6829... 9 Getting source from Git repository 00:01 10 Fetching changes with git depth set to 20... 11 Initialized empty Git repository in /builds/hareendev/iac-explore/.git/ 12 Created fresh repository. 13 Checking out 4c398410 as detached HEAD (ref is test)... 14 Skipping Git submodules setup \$ git remote set-url origin "\${CI_REPOSITORY_URL}" || echo 'Not a git repository; skipping' 16 Downloading artifacts 00:04 17 Downloading artifacts for build-image (9735117189)... 18 Downloading artifacts from coordinator... ok host=storage.googleapis.com id=9735117189 responseStatus=200 OK token=eyJraWQiO 19 Executing "step_script" stage of the job script 00:00 20 Using docker image sha256:b6292d46186976b6f8b9892caf966af22291844596053433789b1933533270c6 fo r hashicorp/terraform:1.6.6 with digest hashicorp/terraform@sha256:9a42ea97ea25b363f4c65be25b 9ca52b1e511ea5bf7d56050a506ad2daa7af9d ... 21 Terraform has no command named "sh". Did you mean "push"? 22 To see all of Terraform's top-level commands, run: terraform -help 24 Cleaning up project directory and file based variables 00:01 ERROR: Job failed: exit code 1