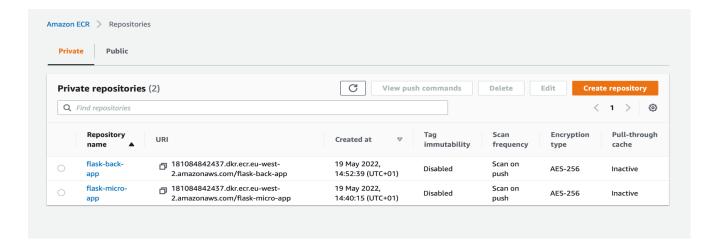
## **Screenshots**

```
j@Js-MacBook-Pro\ frontend\ \%\ docker\ build\ -t\ flask-micro-app .
[+] Building 13.6s (11/11) FINISHED
 => [internal] load build definition from Dockerfile
                                                                                 0.0s
[ => => transferring dockerfile: 292B
                                                                                 0.0s
[ => [internal] load .dockerignore
                                                                                 0.0s
                                                                                 0.0s
 => => transferring context: 2B
 => [internal] load metadata for docker.io/library/python:3.8-slim-buster
                                                                                 7.9s
 => [auth] library/python:pull token for registry-1.docker.io
                                                                                 0.0s
j@Js-MacBook-Pro backend % docker push 181084842437.dkr.ecr.eu-west-2.amazonaws.com/flask-back-app:latest
The push refers to repository [181084842437.dkr.ecr.eu-west-2.amazonaws.com/flask-back-app]
54a58bb976dc: Pushed
9e880bd3628c: Pushed
899c40b6f316: Pushed
048bd28b82b2: Pushed
3ed0c4ea6f65: Pushed
82ee592ec424: Pushed
```



j@Js-MacBook-Pro terraform % terraform init

Initializing the backend...

## Initializing provider plugins...

- Reusing previous version of hashicorp/aws from the dependency lock file
- Using previously—installed hashicorp/aws v4.14.0

## 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.

rerun this command to reinitialize your working directory. If you forget, other commands will detect it and remind you to do so if necessary. j@Js-MacBook-Pro terraform % 📕

j@Js-MacBook-Pro terraform % terraform plan var.ecs\_image\_url

The desired ECR image URL.

Enter a value: 181084842437.dkr.ecr.eu-west-2.amazonaws.com/flask-micro-app

j@Js-MacBook-Pro terraform % terraform apply var.ecs\_image\_url

The desired ECR image URL.

Enter a value:

j@Js-MacBook-Pro terraform % terraform apply var.ecs\_image\_url

The desired ECR image URL.

Enter a value: 181084842437.dkr.ecr.eu-west-2.amazonaws.com/flask-micro-app

salb/1790ca9dc075e006]

aws\_lb\_listener.alb\_listener: Creating...
aws\_lb\_listener.alb\_listener: Creation complete after 0s [id=arn:aws:elasticloadbalancing:eu-west-2:181084842437:liste ner/app/ecsalb/1790ca9dc075e006/c47cbe27c697cfec]

aws\_ecs\_service.service: Creating... aws\_ecs\_service.service: Creation complete after 1s [id=arn:aws:ecs:eu-west-2:181084842437:service/ecs\_cluster/flask-d ocker1

aws\_appautoscaling\_target.ecs\_service\_scaling\_target: Creating...
aws\_appautoscaling\_target.ecs\_service\_scaling\_target: Creation complete after 0s [id=service/ecs\_cluster/flask-docker]
aws\_appautoscaling\_policy.ecs\_service\_memory\_scale\_out\_policy: Creating...
aws\_appautoscaling\_policy.ecs\_service\_cpu\_scale\_out\_policy: Creating...
aws\_appautoscaling\_policy.ecs\_service\_memory\_scale\_out\_policy: Creation complete after 1s [id=memory-target-tracking-service\_memory\_scale\_out\_policy: Creation complete after 1s [id=memory-target-tracking-service\_memory\_scale\_out\_policy caling-policy]

aws\_appautoscaling\_policy.ecs\_service\_cpu\_scale\_out\_policy: Creation complete after 1s [id=cpu-target-tracking-scaling

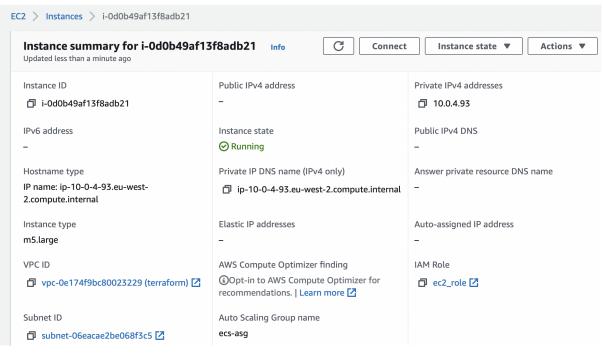
aws\_cloudwatch\_metric\_alarm.ecs\_service\_cpu\_scale\_out\_alarm: Creating...
aws\_cloudwatch\_metric\_alarm.ecs\_service\_cpu\_scale\_out\_alarm: Creation complete after 0s [id=CPU utilization greater th
an 50%]

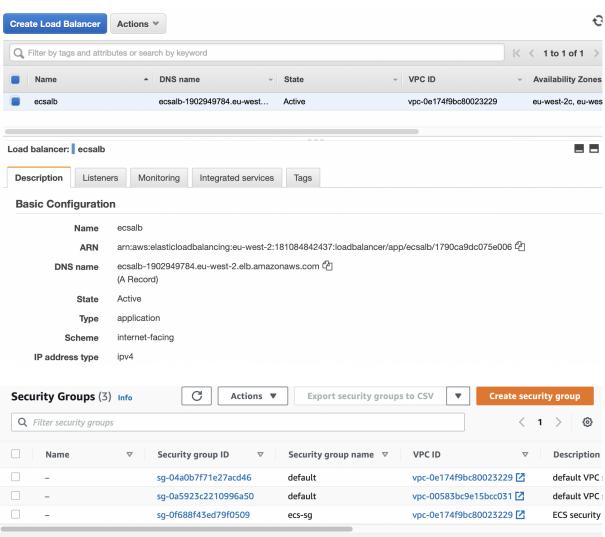
Apply complete! Resources: 47 added, 0 changed, 0 destroyed.

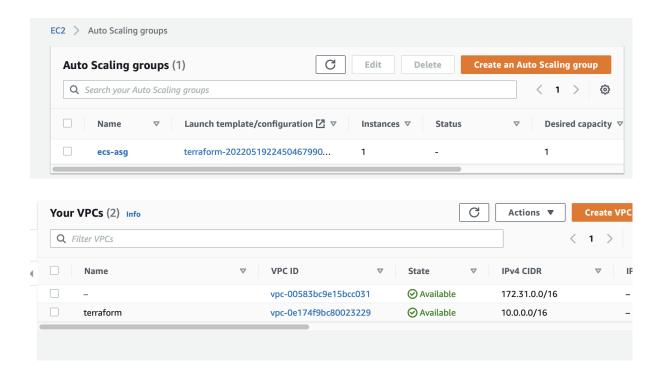
Outputs:

alb\_dns\_name = "ecsalb-1902949784.eu-west-2.elb.amazonaws.com"

j@Js-MacBook-Pro terraform %







## DynamoDB Table:

