

# ASSIGNMENT

## 3 tier app deployment HandsOn with terraform modules

1) Clone the code -

[https://github.com/heydevopsorg/terraform\\_threetierarch.git](https://github.com/heydevopsorg/terraform_threetierarch.git)

2) Create the AWS account -

<https://aws.amazon.com/console/>

3) Install Docker and terraform on windows  
laptop/Mac/Linux

<https://docs.docker.com/desktop/install/windows-install/>

<https://developer.hashicorp.com/terraform/tutorials/aws-get-started/install-cli>

4) Execute the linux command to give permission

```
chmod +x setup-ecrs.sh
```

5) Run this on terminal to create the ECR repo and to create images in local and send those to ECR- `./setup-ecrs.sh`

6) Go to terraform folder -

`terraform init`  
`terraform plan`  
`terraform apply`

7) Testing the Application via LB

1) Hit the Front end load balancer-  
`front-end-lb-*****.us-east-1.elb.amazonaws.com/`

2) Request to the presentation layer, which forwards the requests to the application layer (via the internal Load Balancer) that finally creates a table called users, and adds 2 users in the table

`front-end-lb-*****.us-east-1.elb.amazonaws.com/init`

3) To view the users table you can call

`front-end-lb-*****.us-east-1.elb.amazonaws.com/users`

4) Delete the Architecture

`terraform delete`

