Improvements/To-dos

* Github
* Create different AWS accounts for dev, stage and prod. Workflows will be created accordingly. Corresponding aws accounts/regions will be deployed to.
* Might use a templating tool like ansible to reduce repetition/deplication of workflow yamls.
* Would enable branch protection rule on the master branch. Not doing that now as I wont be able to merge anything to master then.
* AWS
* Regions – I would have the app deployed in multiple regions for redundancy and failover. The endpoint for the app would be generic hosted on R53 with failover based on health/aliveness of the app.
* Lockdown ECS IAM policy to allow specific actions to specific resources.
* Lockdown security groups outbound access. Was unable to get this working due to time constraint.
* APP
  + Enable TLS. I was unable to do that presently due to certificate constraints.
  + Improve startup script. Container start up time is over a min.
* Terraform
  + Use terragrunt to manage terraform deployments. The advantages being :
* Creation of DynamoDB tables to store state files, encryption, locking, etc are managed.
* Resource creation can be done via re-usable modules.
* Dependency management of modules is very easy.
* Code can be well structured for dev, stage and prod environments.
* Parallelized deployment, control over the threads, etc.
* Variables specific to environments can be managed well.
* Use environment specific variable files to better manage deployments/changes.