**Domain: Container Services**

**Topic: ECR**

**Task: Push nginx docker image in private repository**

**Problem to Be Solved**

*Image storage*

## Explanation of the Solution

* [*Repository creation*](https://docs.aws.amazon.com/AmazonECR/latest/userguide/repository-create.html)
* [*Pushing a docker image*](https://docs.aws.amazon.com/AmazonECR/latest/userguide/docker-push-ecr-image.html)
* [*Pulling an image*](https://docs.aws.amazon.com/AmazonECR/latest/userguide/docker-pull-ecr-image.html)

## Implementation Details

*Prerequisites:*

* *Installed* [*docker*](https://www.docker.com/products/docker-desktop)
* *Appropriate IAM polices -* ***AmazonEC2ContainerRegistryFullAccess*** *AWS managed policy**might be assigned for this task*

*Private repository creation:*

1. *Go to the* ***Private*** *tab of* ***Repositories*** *under* ***Amazon ECR*** *section and click at* ***Create Repository****.*
2. *On the appeared configuration window ensure that* ***Visibility settings*** *is set to* ***Private.*** *For* ***Repository name****, enter a unique name for your repository – ecr-task-{last\_name}. Keep other settings by default and click* ***Create Repository*** *button.*

*Build custom docker Nginx image and push it to the private repository:*

1. *Form Dockerfile (in bash* echo "FROM nginx" > Dockerfile*).*
2. *Build docker image from Dockerfile with following command:*docker build --file Dockerfile --rm --tag {account\_id}.dkr.ecr.{region}.amazonaws.com/ecr-task-{last\_name}:nginx .

##### *Retrieve an authentication token and authenticate your Docker client to your registry:* aws ecr get-login-password --region {region} | docker login --username AWS --password-stdin {account\_id}.dkr.ecr. {region}.amazonaws.com

##### *Run the following command to push this image to your newly created AWS repository:* docker push {account\_id}.dkr.ecr.{region}.amazonaws.com/ecr-task-{last\_name}:nginx

## Benefits / Outcomes / Pros and Cons / Summary

*This solution might be used as backup solution for your private dicker registry also it’s could be used as source for your ECS load*

## Tearing down

*Suppress published image and delete created previously repository.*