What is a Docker?

- Virtualization technology used to package your code
- Your code stays system agnostic
- Easy to code, deploy and maintain
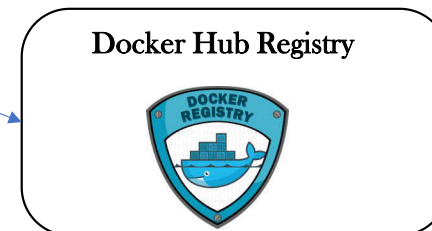- Docker packages your application into a container

Steps : Building a Docker Image

- Install the Docker Engine
- Build the application with dependencies
- Build the docker image
- Test the image locally
- Pushing the image to Google container registry (gcr)

Docker Images

Google Cloud Registry

Google Container Registry

Push Docker Image

AWS Registry

Amazon ECR

- Develop and build image locally
- Test the docker image locally

Docker Hub Registry

DOCKER REGISTRY

GCP : Cloud Run

- Fully Managed Compute Environment
- Meant for Stateless Applications
- Auto scales depending on traffic
- You only pay while your app in running
- Combines the concept of containerization and serverless applications

GCP : Cloud Run

First Approach

- Build the image locally
- Test the image locally
- Push image to GCR
- Create a Cloud Run Service from the image

Second Approach

- Build the application locally
- Test the application locally
- Use {gcloud run deploy} to deploy image to cloud run