DEVOPS EASY LEARNING

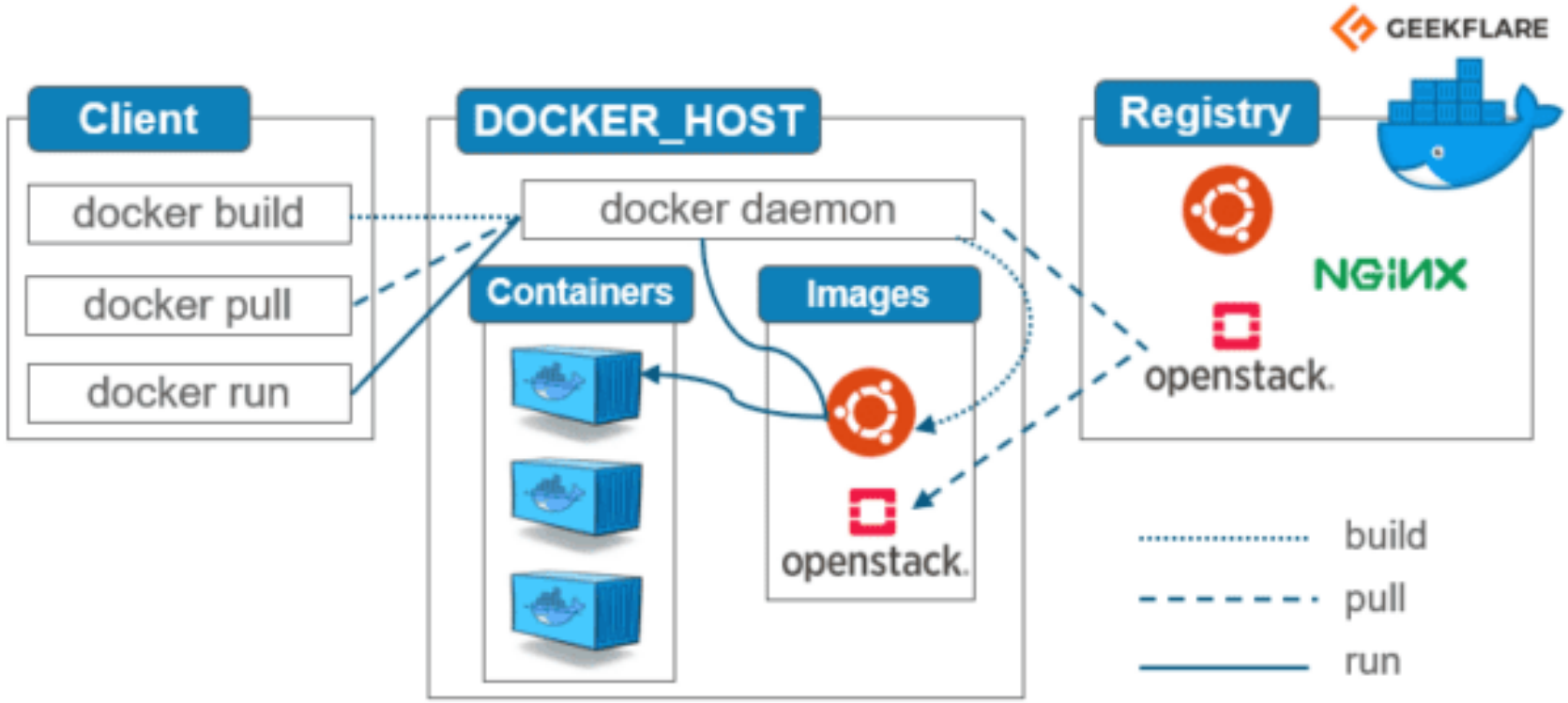
# Class review S5GROUP5 BrainCells (DOCKER/AWS)

# Some Docker Terminology and Architecture

1. What is a Microservice?
2. What is Docker hub?
3. Can you explain what  is a Docker Trusted Registry (DTR)?
4. Can you explain what  is AWS Elastic Container Registry (ECR)?
5. What is Docker image?
6. What is Docker desktop?
7. Can explain what is a Container orchestration with an example ?
8. What is a Dockerfile
9. What is  Base image

# Some Docker Terminology and Architecture

Look at the image below and explain the following architecture



# Questions

1. Your manger asked you to deploy ubuntu on the container, and you noticed that ubuntu image is not found locally on your image cache.
    - You type the following to launch ubuntu. Can you please briefly explain what does this command do?
        - docker run --name s5student –it ubuntu bash

2. You just deployed a container(centos) and your manger asked you to do some update.
        - Container id : c1456878fsefs
        - Container name : s5student
    a) What command would you used to login inside that container?
    b) What command would you used to do the update on the container?

3. What does these command do?
    a) docker container run --name microservices –itd –p 8080:80 nginx
    b) docker ps | grep microservices

4. In AWS what is the purpose on availability zones?

5. In AWS what service do we used to deployed VM/server?

6. In AWS what does inbound(ingress) and outbound(egress) mean?

# HANDS ON AWS/DOCKER

**You have just been working for 3 years as a devOps engineer at EK_tech software solution, some of the server are down and your manger ask you to login on AWS and perform the following task:**

1. Generate a key for ssh connection
2. Create a security group for allowing ssh connection to your server
3. Deploy a server using Ubuntu image and on your server configuration assign the key you generated and security group.
4. Your server is now running, login using the ssh client and perform the following task
    - Update the server
    - Install docker on the server
    - Using docker cmd deploy a container called leonardtia/tia:microservices
    - Display the application on the browser.
    - Delete the container

# FEEL FREE TO DELETE WHEN YOU’RE DONE

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