



**BATCH** : BATCH 48  
**LESSON** : Docker  
**DATE** : 18.04.2022  
**SUBJECT** : Docker Project



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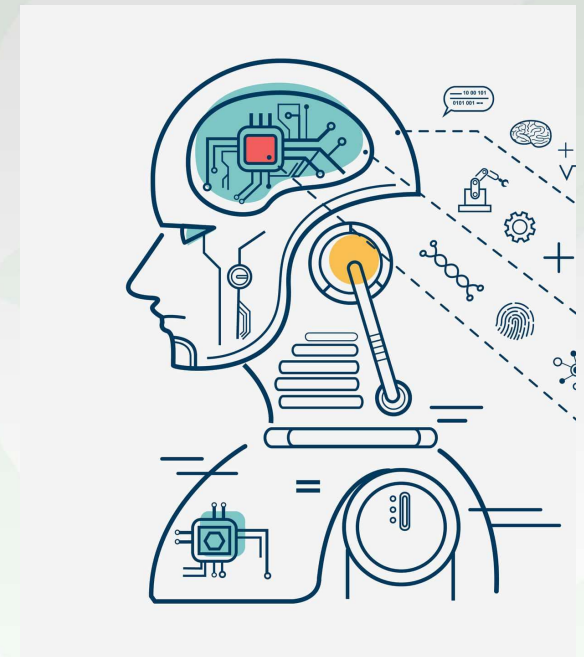
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## Aim of Project

- ✓ ABC Bank wants to sell its term deposit product to customers and before launching the product they want to develop a model which helps them in understanding whether a particular customer will buy their product or not (based on customer's past interaction with bank or other Financial Institution).







# Bank Marketing Model

Please type

- 0 for Blue-Collar
- 1 for Management
- 2 for Technician
- 3 for Admin
- 4 for Services
- 5 for Retired
- 6 for Self-Employed
- 7 for Entrepreneur
- 8 for Unemployed
- 9 for Housemaid
- 10 for Student

- 0 for Single
- 1 for Married

Will the  
customer buy  
ABC Bank's  
product?

Predict



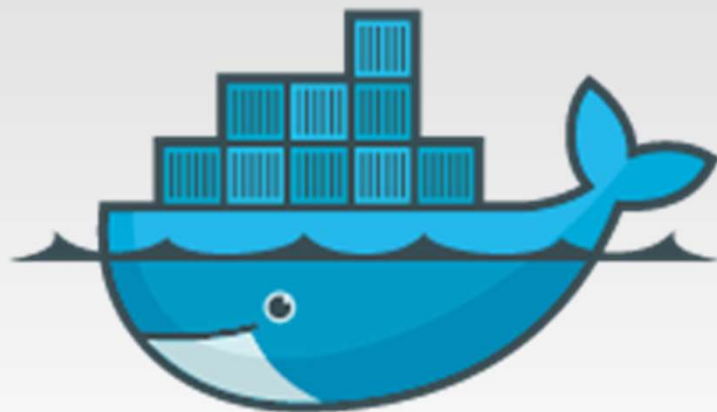
# Creating EC2 Instance



Amazon  
**EC2**



# Creating Docker Image



docker



# Creating Volume



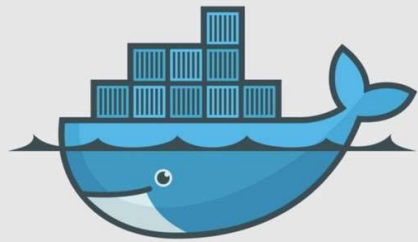
docker





## Pushing the image to Docker hub

# Docker Hub



docker

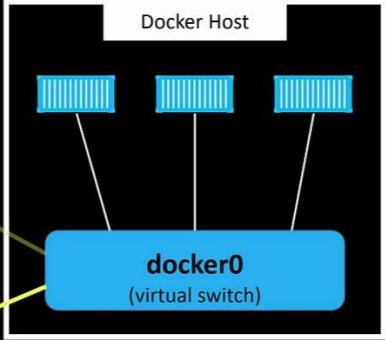




# Networking

## ► Example image

```
root@node1: /home/ubuntu
{
  "Id": "191853460aad5335fc29692d9cd8cc94357ca4c1cbd6f99a9fc50ed1029fc77a",
  "Created": "2016-12-20T21:47:45.342696205Z",
  "Scope": "local",
  "Driver": "bridge",
  "EnableIPv6": false,
  "IPAM": {
    "Driver": "default",
    "Options": null,
    "Config": [
      {
        "Subnet": "172.17.0.0/16",
        "Gateway": "172.17.0.1"
      }
    ]
  },
  "Internal": false,
  "Attachable": false,
  "Containers": {},
  "Options": {
    "com.docker.network.bridge.default_bridge": "true",
    "com.docker.network.bridge.enable_icc": "true",
    "com.docker.network.bridge.enable_ip_masquerade": "true",
    "com.docker.network.bridge.host_binding_ipv4": "0.0.0.0",
    "com.docker.network.bridge.name": "docker0",
    "com.docker.network.driver.mtu": "1500"
  },
  "Labels": {}
}
```



The diagram illustrates the Docker Host network architecture. It shows three blue rectangular containers at the top, each connected by a line to a central blue rounded rectangle labeled 'docker0 (virtual switch)'. The entire diagram is enclosed in a box labeled 'Docker Host'.

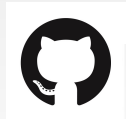


# Project Map

Creating EC2 Instance(Docker installed)



Cloning to  
<https://github.com/talfik2/devopsproject.git>



Creating Necessary Files(app.py, model.py,  
Dockerfile, requirements.txt)



Building Docker Image



Running Container from the Docker Image



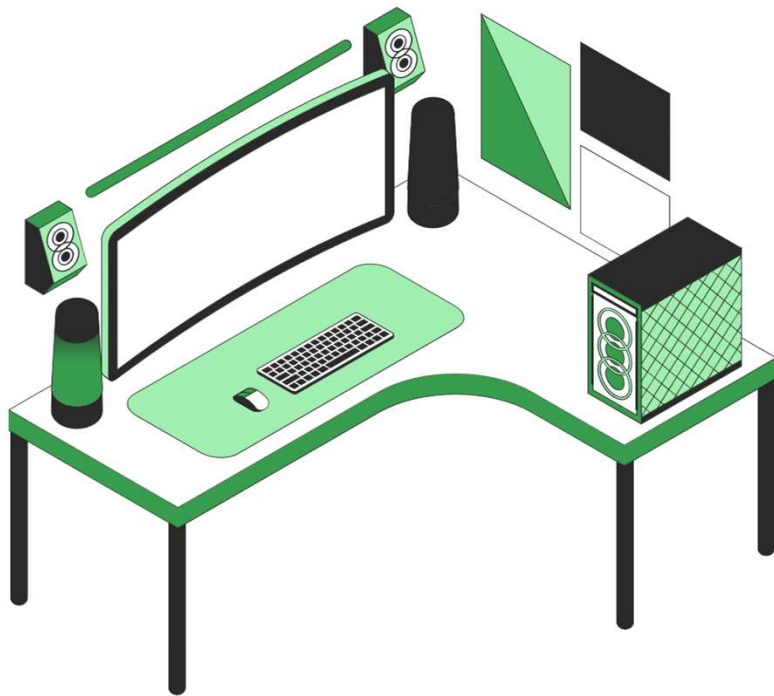
Creating Volume



Pushing the image to Docker hub



Networking



# Do you have any questions?

Send it to us! We hope you learned something new.



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