



BATCH : BATCH 85
LESSON : Docker
DATE : 05.10.2022
SUBJECT : Docker Project



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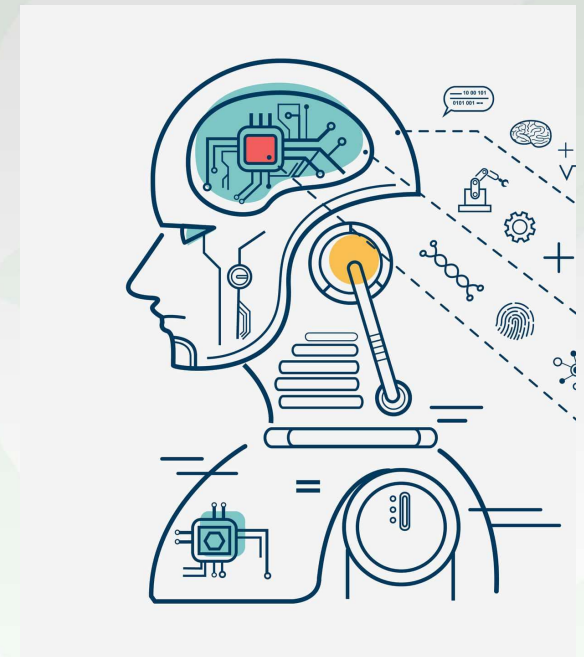
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Aim of Project

- ✓ ABC Bank wants to sell its term deposit product to customers and before launching the product they want to develop a model which help 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



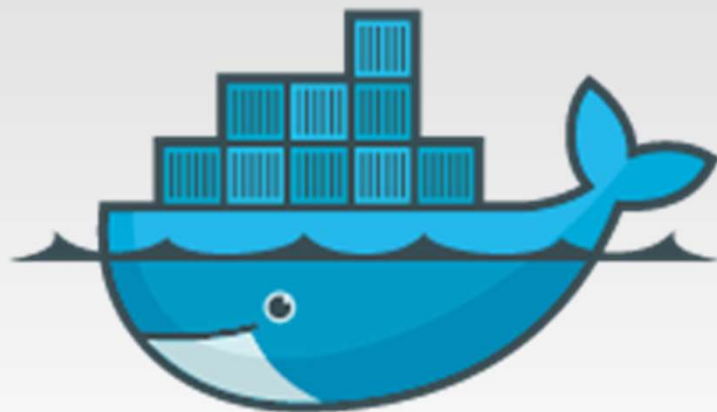
Creating EC2 Instance



Amazon
EC2



Creating Docker Image



docker



Creating Volume

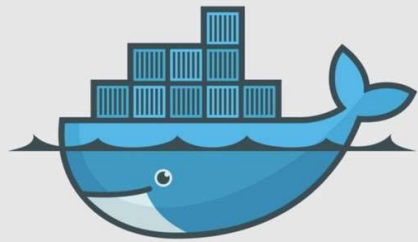


docker



Pushing the image to Docker hub

Docker Hub



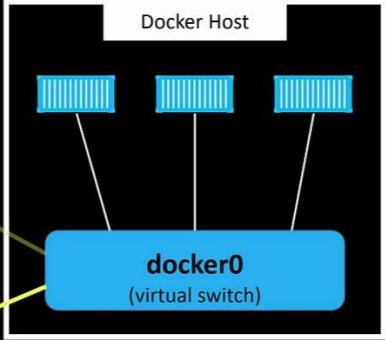
docker



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": {}
}
```



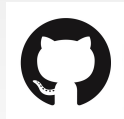


Project Map

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



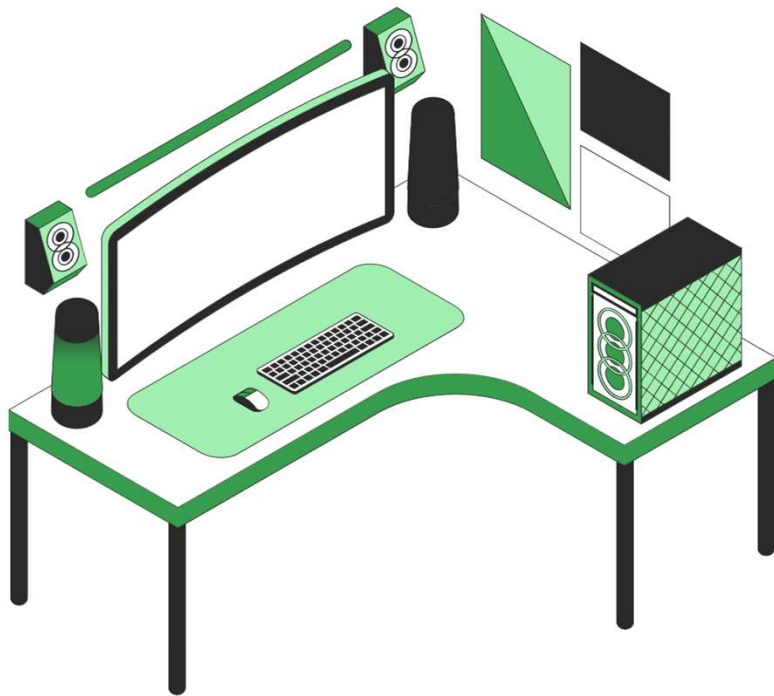
Creating Volume



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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