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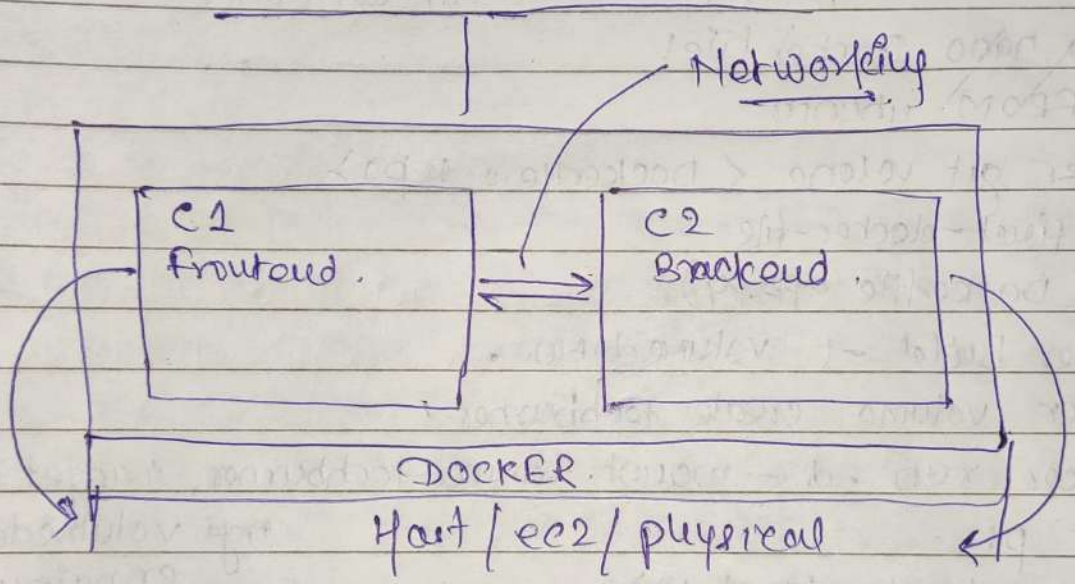
* Docker Network

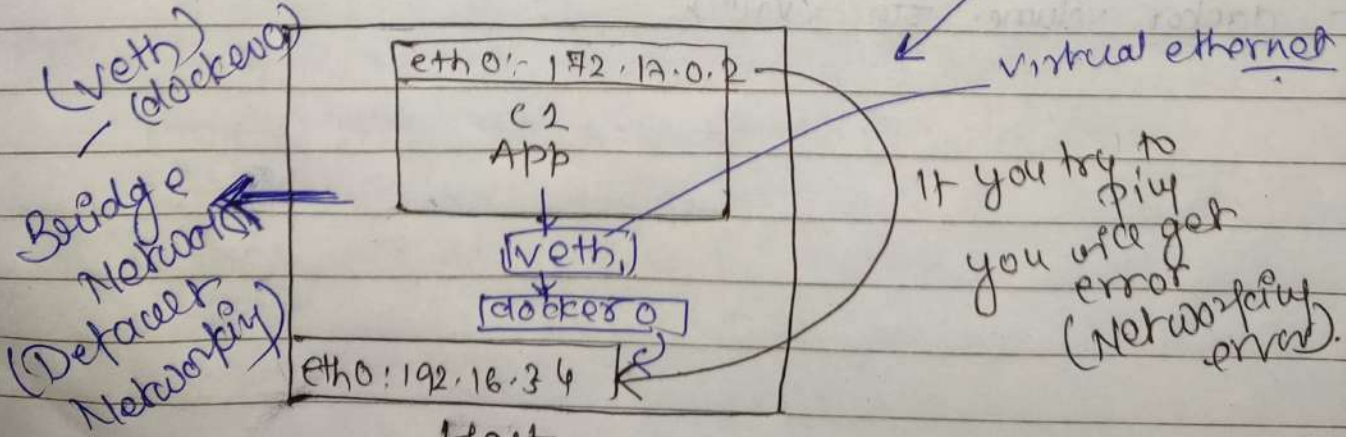
Docker networking is how containers communicate. Containers on the same network can talk to each other. There's default bridge network, and you can create custom networks. Port mapping allows external access, and DNS resolution uses container names for communication. It's like setting up a communication system for your containers.



How your container talk to your host?

1. Container 1 → Container 2
2. Container 2 → Container 2.

Isolation



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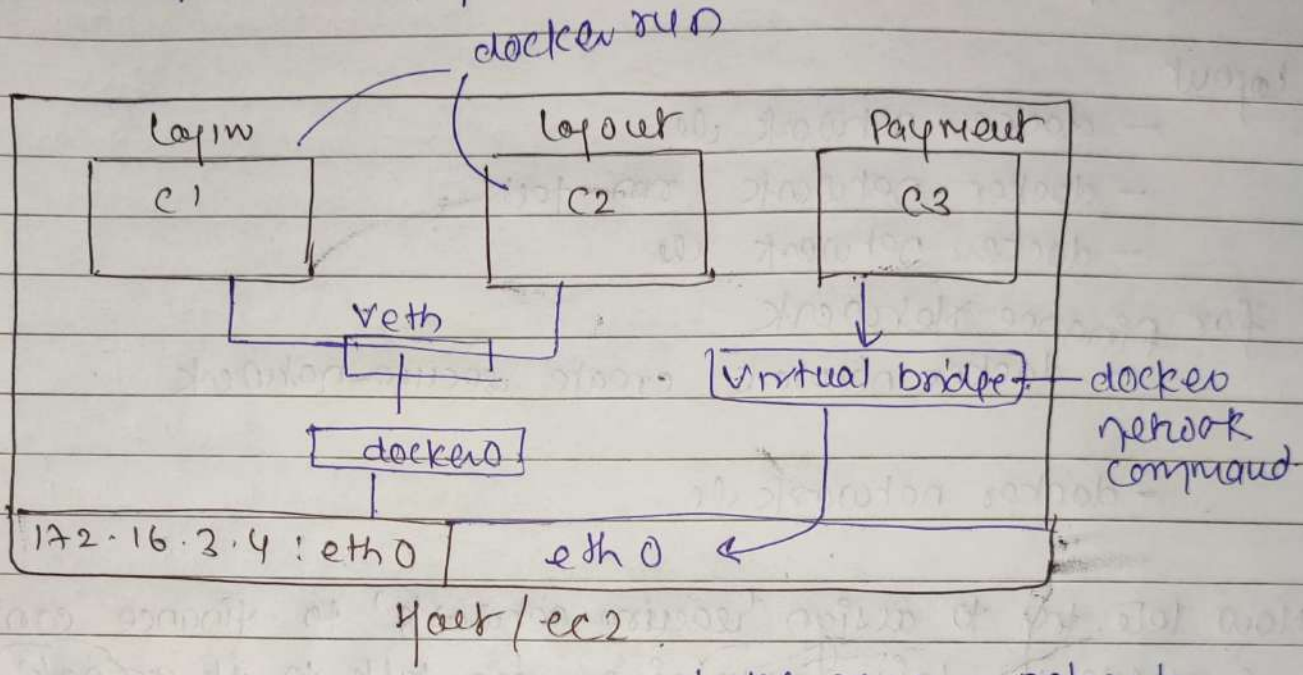
① Bridge Network
② Host Network
③ Overlay Networking
④ Custom Bridge



docker run --network.

LAB :-

→ git clone <link>
→ cd examples.
- docker run -d --name login nginx:latest
- docker exec -it login /bin/bash
- apt update
- apt-get install iputils-ping -y
- ping -V

- cd examples
- docker run -d --name logout nginx:latest
- docker ps
- docker inspect login check ip
- docker inspect logout.

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go back to piy -v (login container)

- ping <ip of another container>

Logout
- docker network ls
- docker network rm test
- docker network ls.

For finance Network
- docker network create secure-network

- docker network ls

Now lets try to assign 'secure-network' to finance container & check if login container can talk to it or not

~~- docker run -d --name --network=secure-network~~

- docker run -d --name finance --network=secure-network nginx:latest

- docker ps.
- docker inspect <finance cont. ID>
  check Network

Login cont.
- ping <ip of finance> and nothing happens.

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Now lets try to create a container with host container.

- docker run -d --name host-demo --network=host nginx:latest
- docker ps
- docker inspect <host-demo ID>.
  check for IP.