

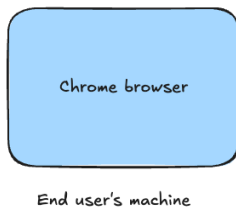
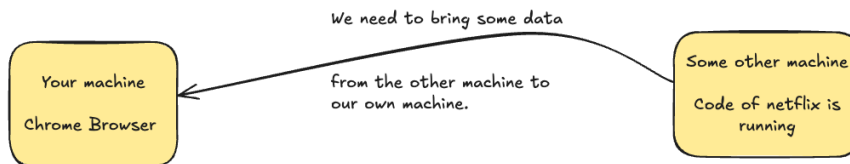


Focus more on the backend side of things

Delicious

- agenda: What happens when we do www.yahoo.com ?

1. The users of most of the applications, can exist anywhere in the world.
2. Not all softwares are going to run locally on your machine.



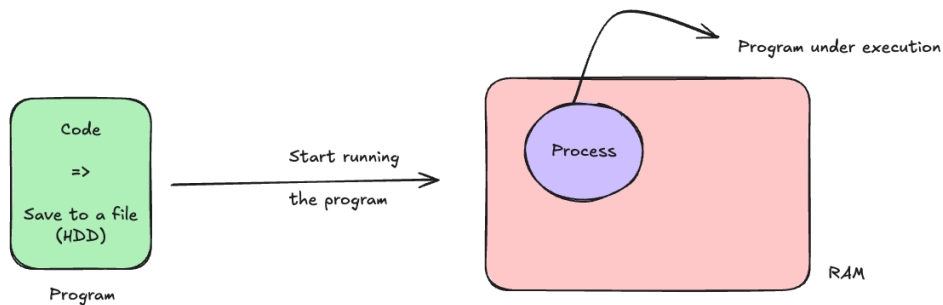
Client Server Architecture

# What is a client ?

--> Client is any process running on some machine which is capable of raising a request.

# What is a server ?

--> Server is any process running on some machine which is capable of accepting a request, process it and then send the response of the request back to the caller.



# Examples of client

1. Zomato application on your mobile phone
2. Facebook app running on your browser

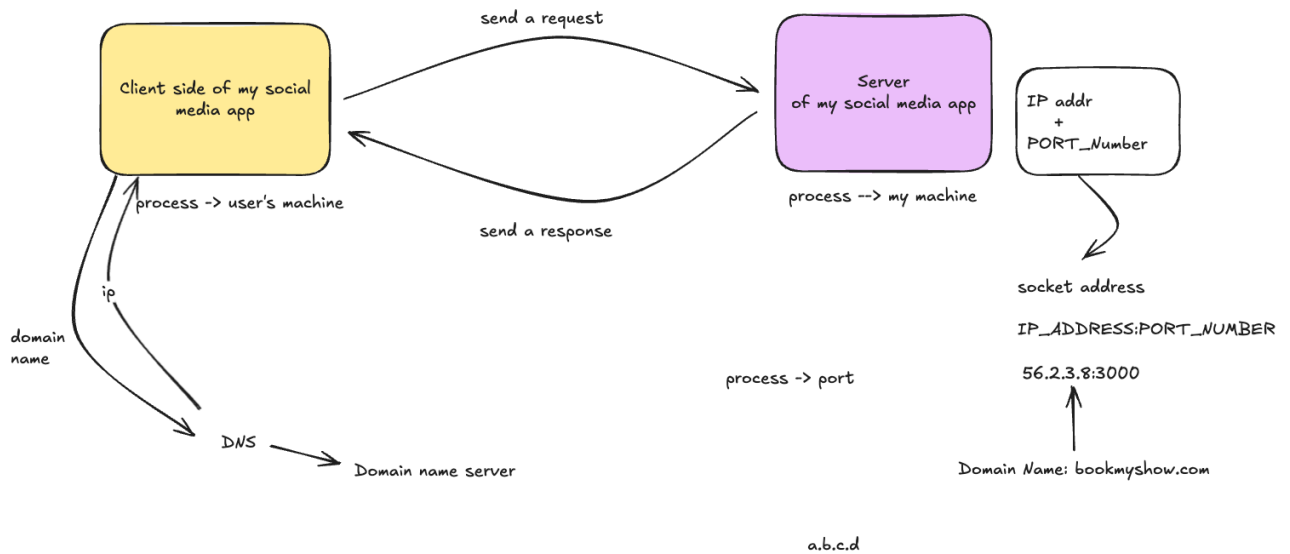
raise a req

UDFA Rank



### # Examples of server

1. Processes of icici bank who are processing our loan deduction request are servers
2. Zomato must be owning a lot of machine where processes are running to facilitate request raised by diff clients.



### # computer networks

# Internet -> network of computer networks

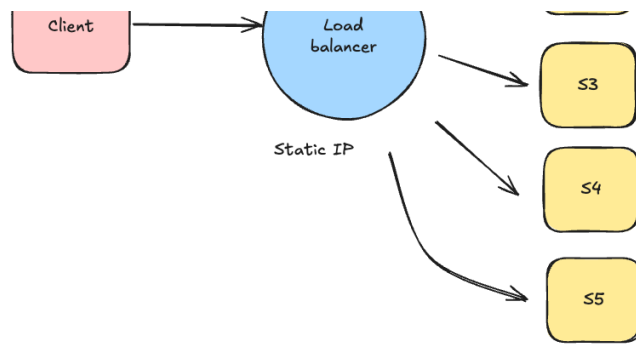
AWS ----> Ec2 -> Spin up -> IP Addr, shut it down -> restart -> IP Addr

M1 Pro =====> M4 Pro =====> More powerful machine

Vertical Scaling -> Improving power of your existing machines

Horizontal Scaling -> Deploying multiple machines to distribute the load is referred as horizontal scaling





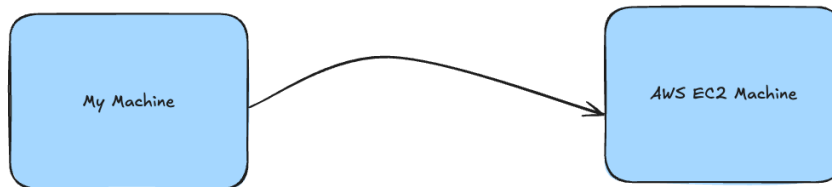
## Cloud computing

AWS  
GCP  
AZURE  
and many more .....



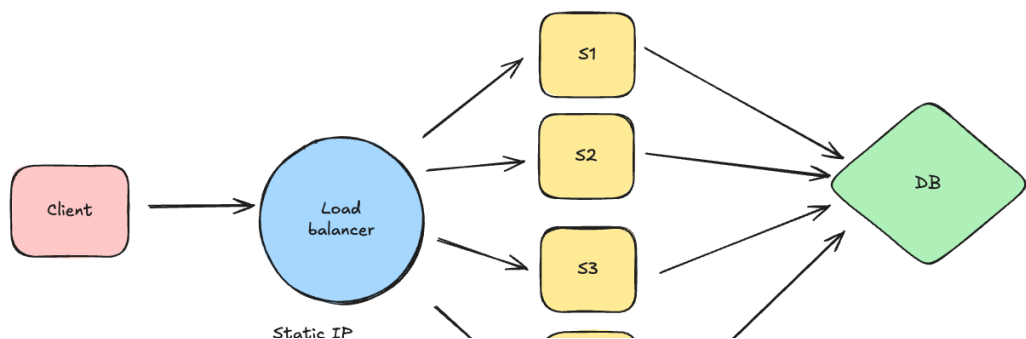
Data center

# Protocols



Autoscaling

Stateless system





Application server

Stateful system

