

WHAT IS A SERVER



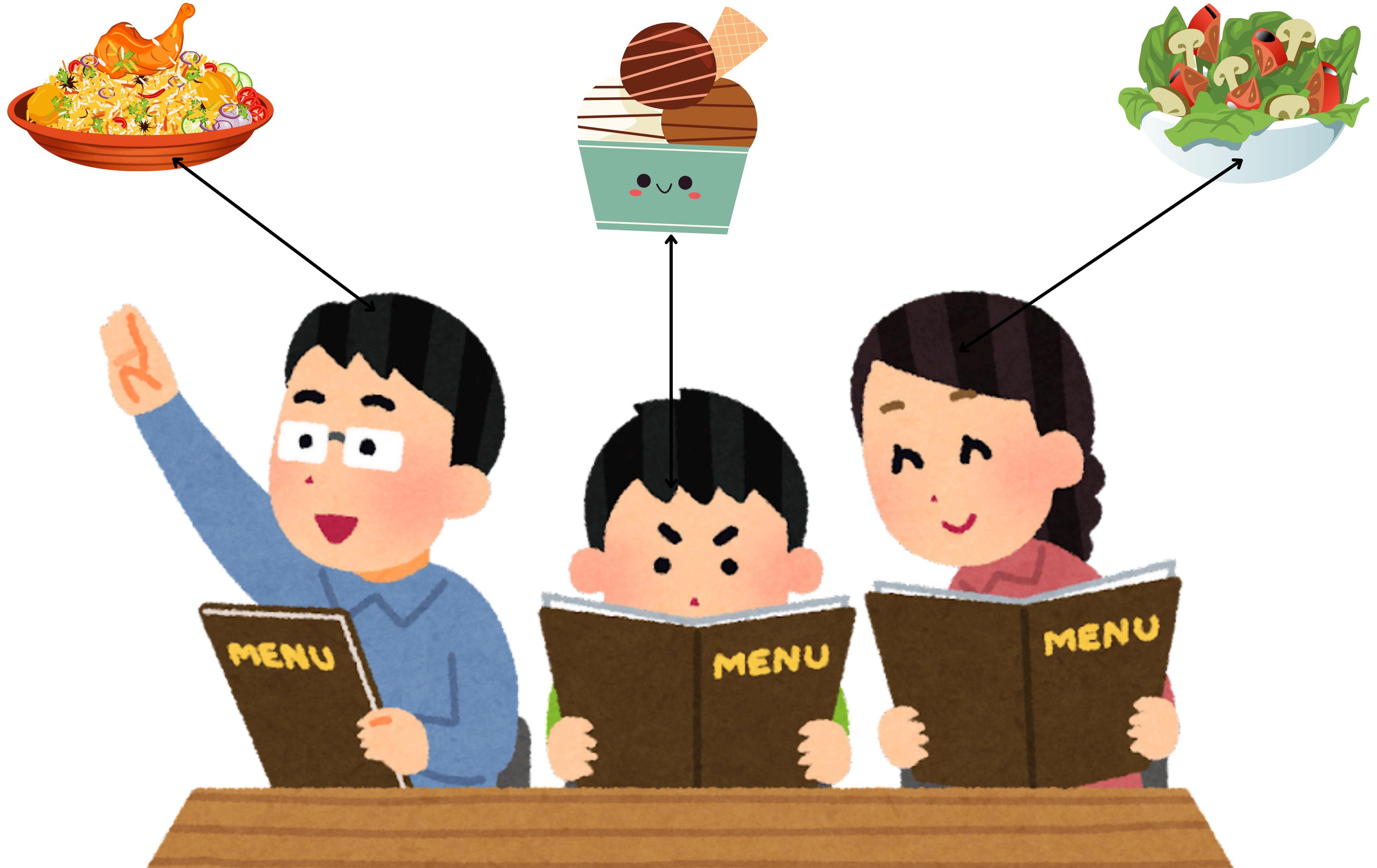


I WANT
FOOD

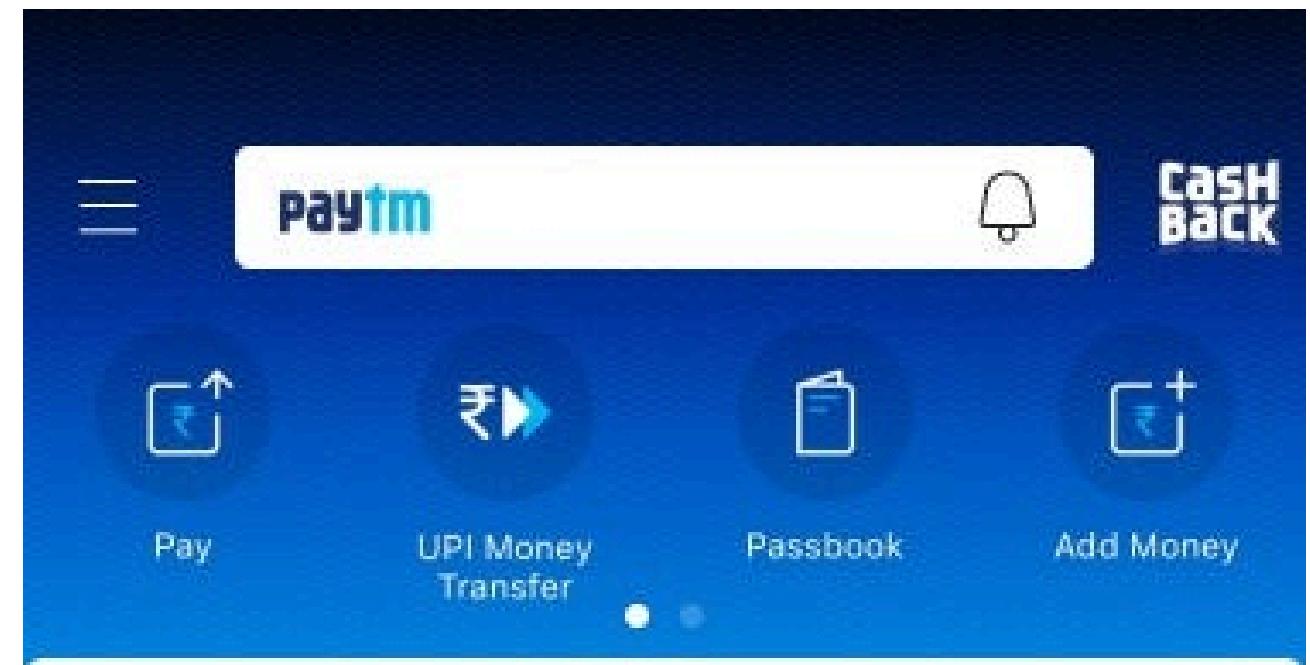




**YES SIR
MAY I KNOW
WHAT YOU WANT**







🔔 IND vs NZ: Watch it live on Hotstar >

Mobile Prepaid	Mobile Postpaid	DTH	Electricity
Movie Tickets	Train Tickets	Flat ₹200	Gold
Grand Gadget Sale	Audio Fest	Shopping	More

user-1
Movies

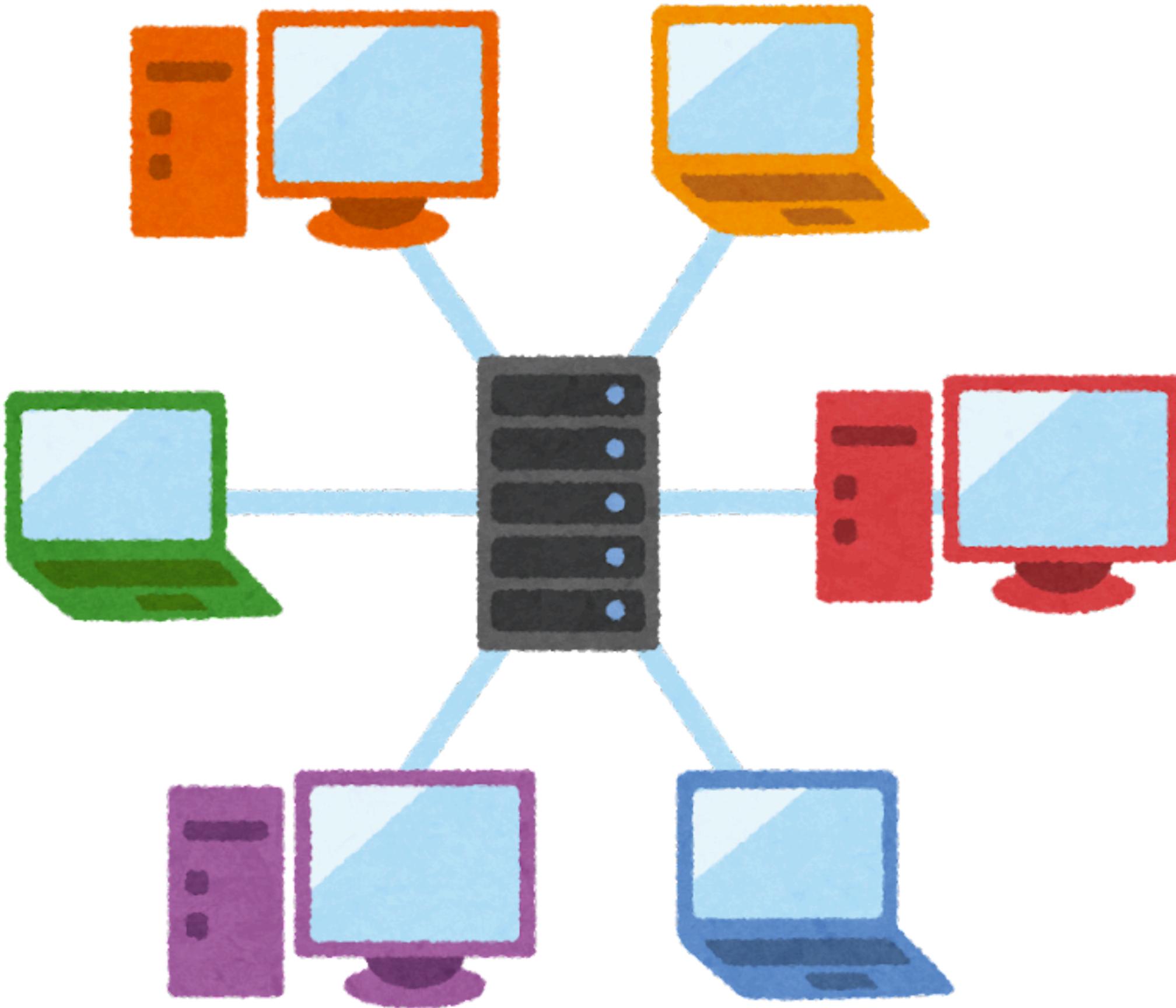
user-2
Flight

user-3
Dth

user-4
Recharge

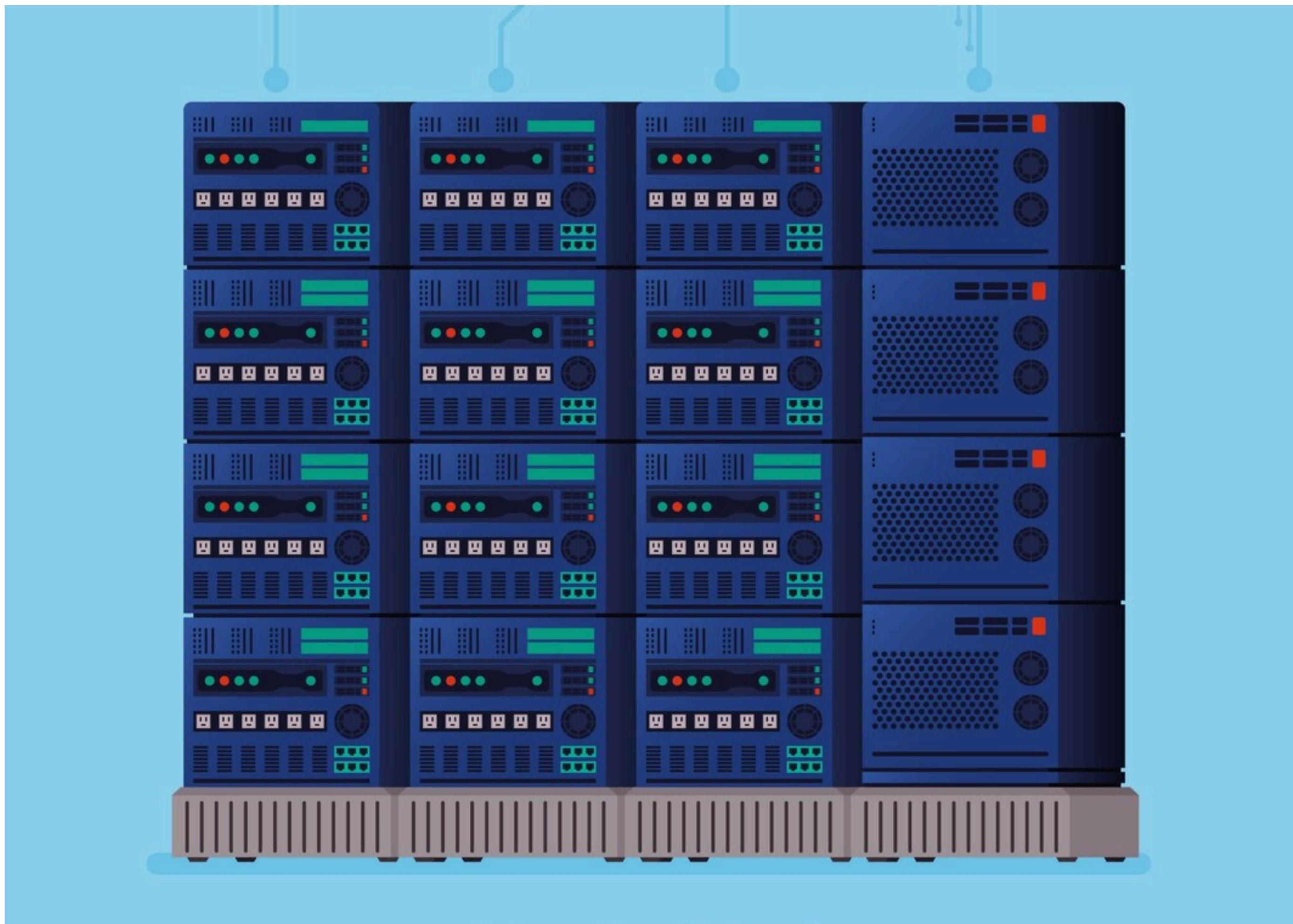
user-5
Train

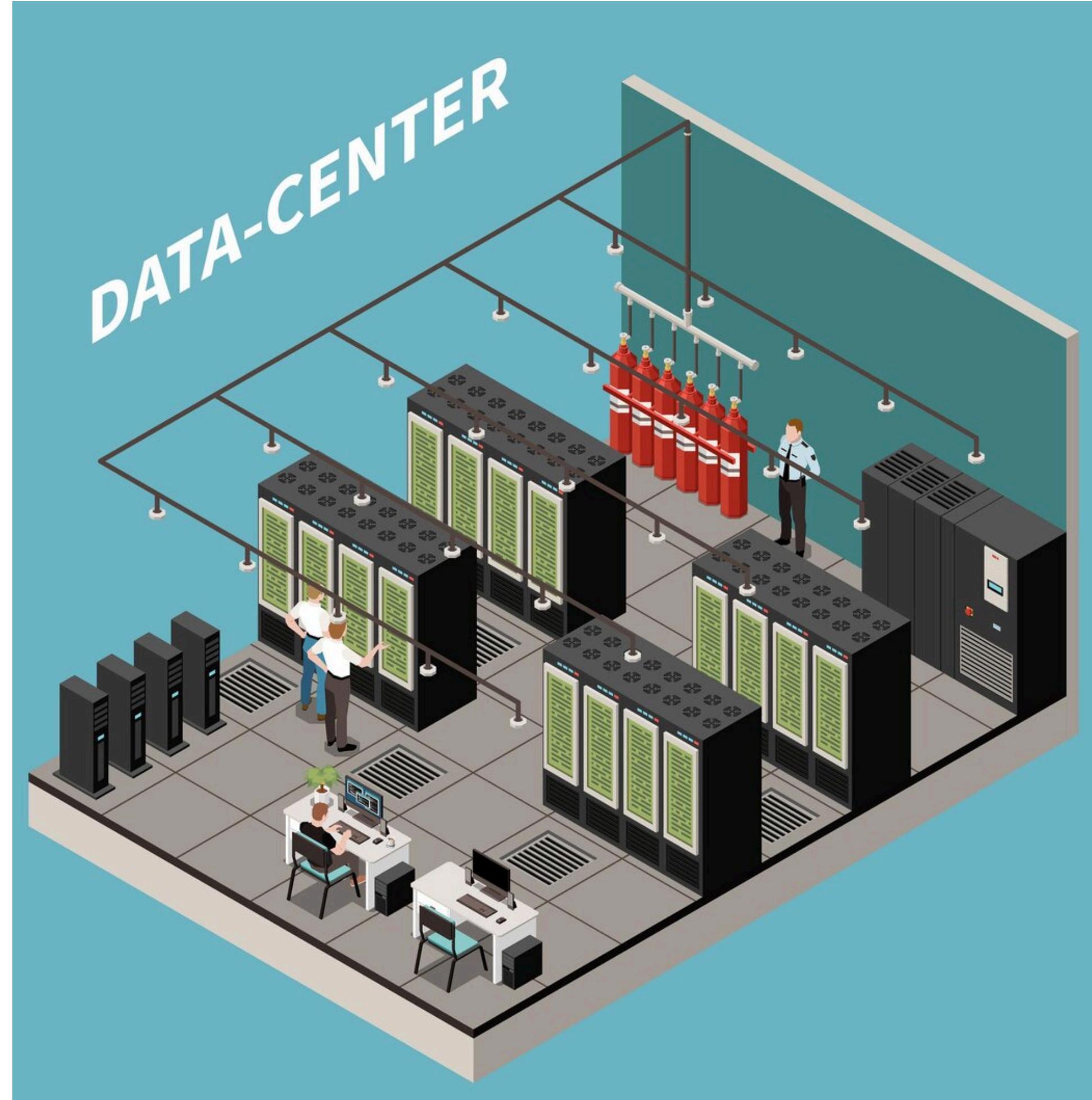
user-6
Loan



WHERE IS THE SERVER







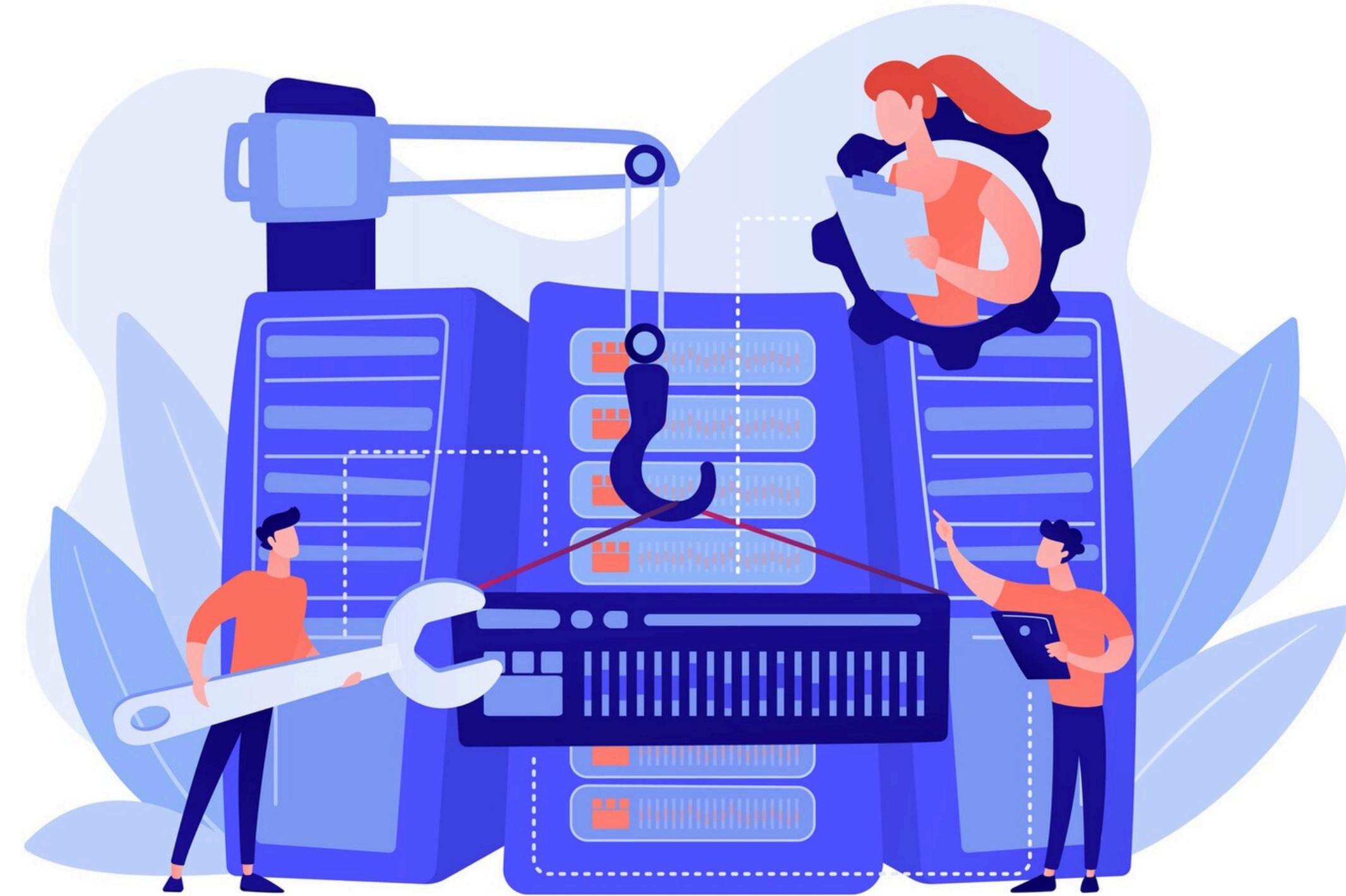
WHERE IS THE DATA CENTER



AWS has over 100 data centers in many parts of the world



HOW TO BUILD A SERVER





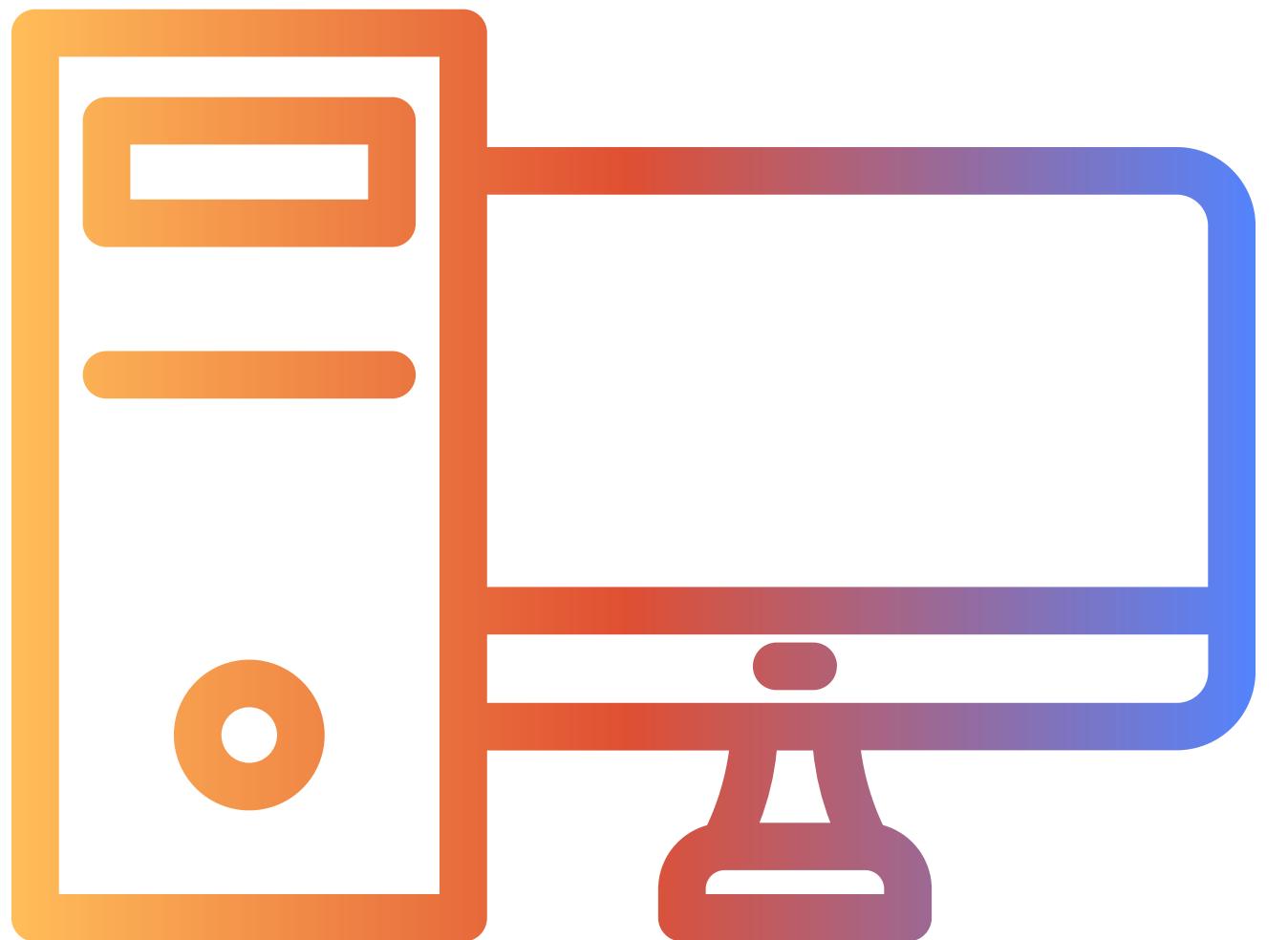
PHYSICAL SERVER



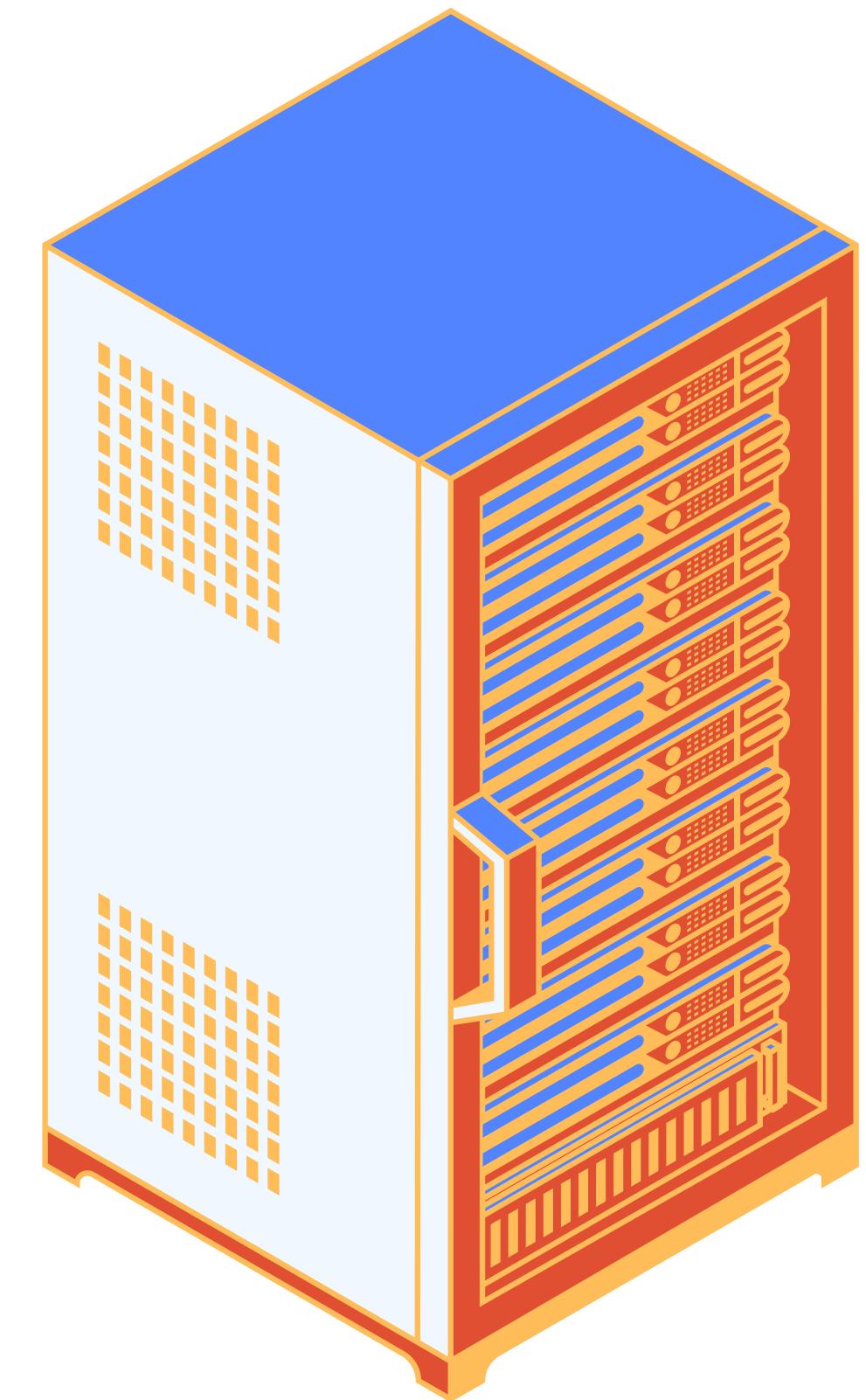
CLOUD SERVER



COMPUTER



SERVER



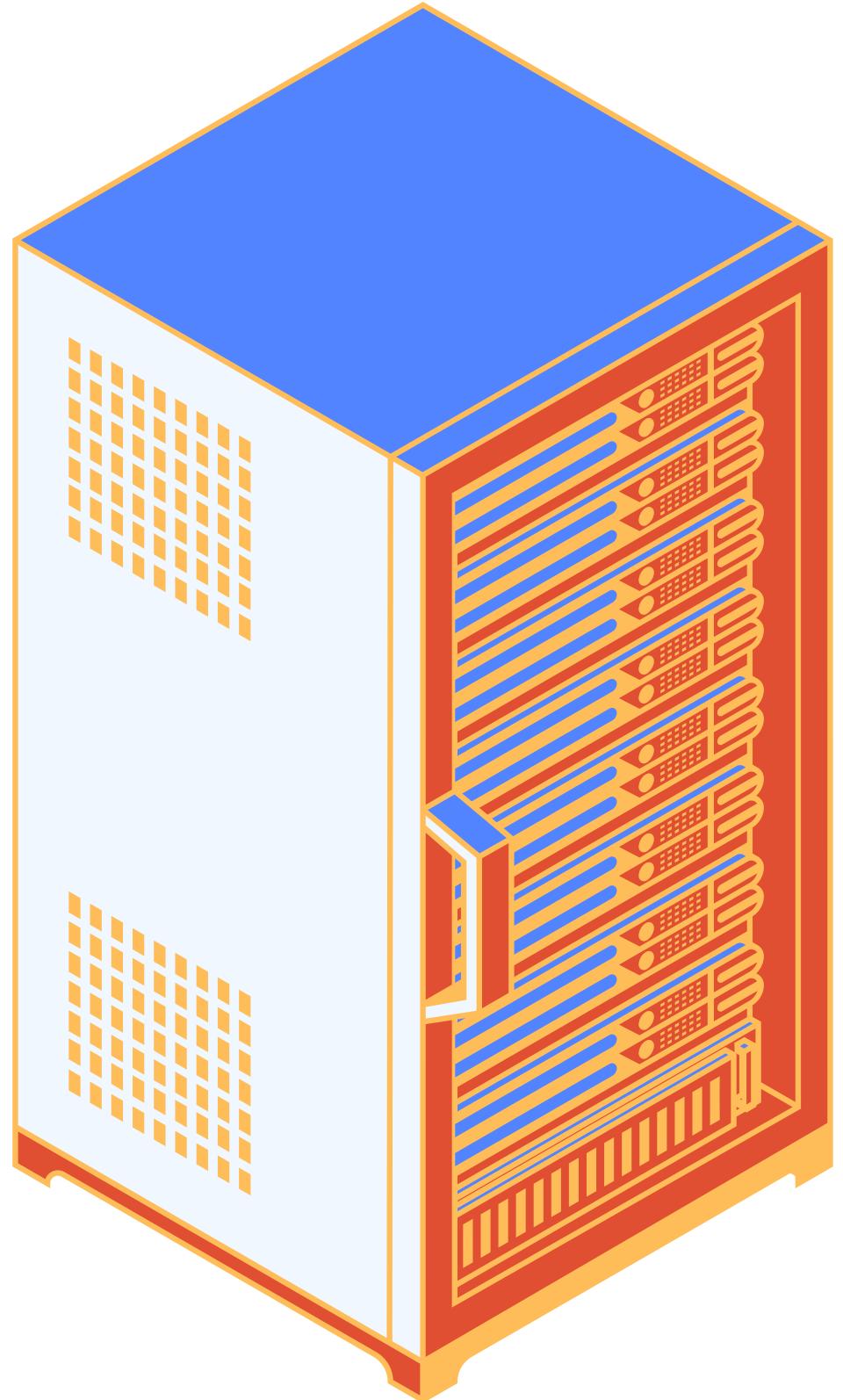
COMPUTER



MAIN COMPONENTS

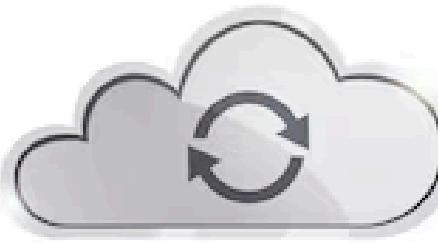
**OPERATING SYSTEM
HARDWARE (CPU, RAM)
SECURITY
NETWORK
STORAGE**

SERVER



MAIN COMPONENTS

**OPERATING SYSTEM
HARDWARE (CPU, RAM)
SECURITY
NETWORK
STORAGE**



COMPANIES

AWS

NENU VINNANU

bhibatsam

COMPANIES

AWS

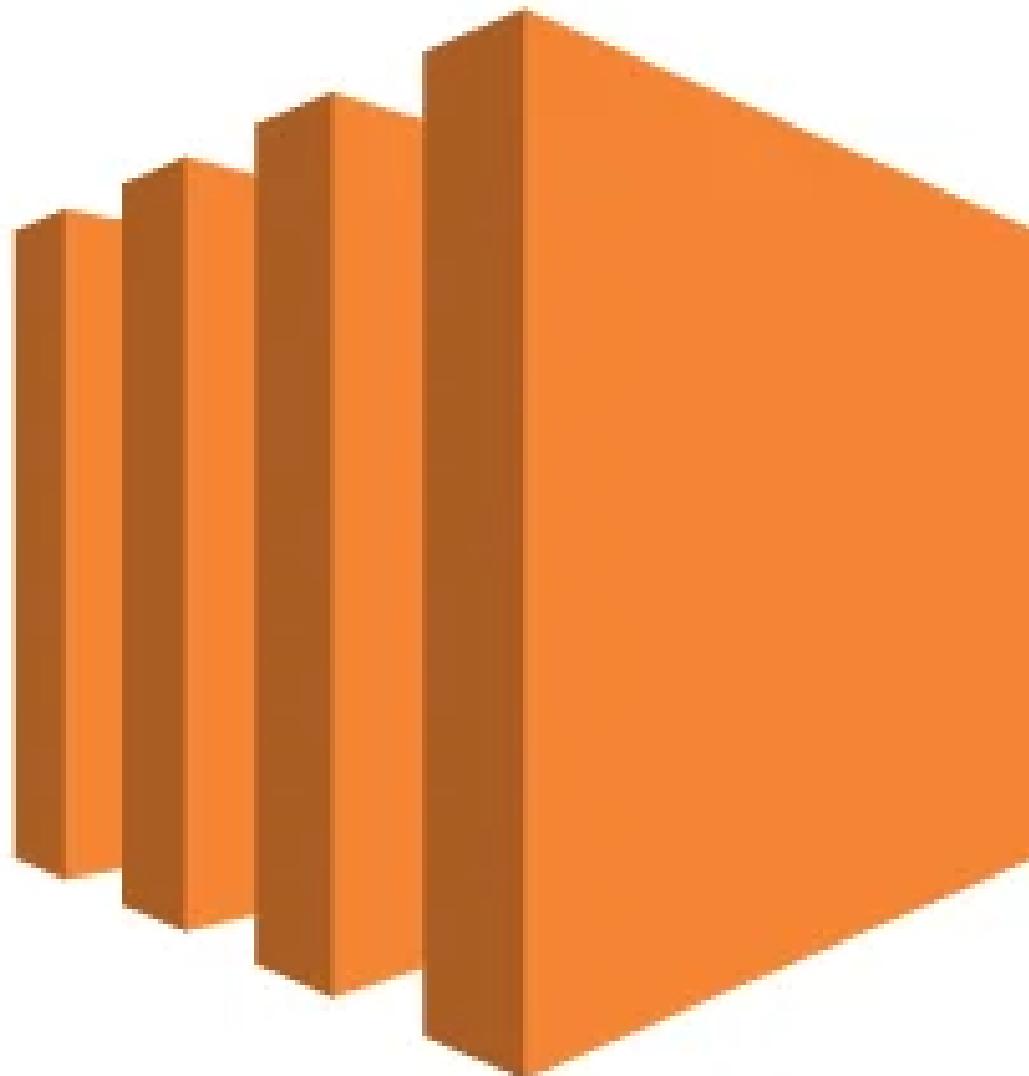
NENU UNNANU

bhibatsam

STEPS TO CREATE EC2



STEP-1: NAME & TAGS



Amazon EC2

TAGS: TO IDENTIFY SERVERS

NAME : WEB-SERVER

CLIENT: SWIGGY

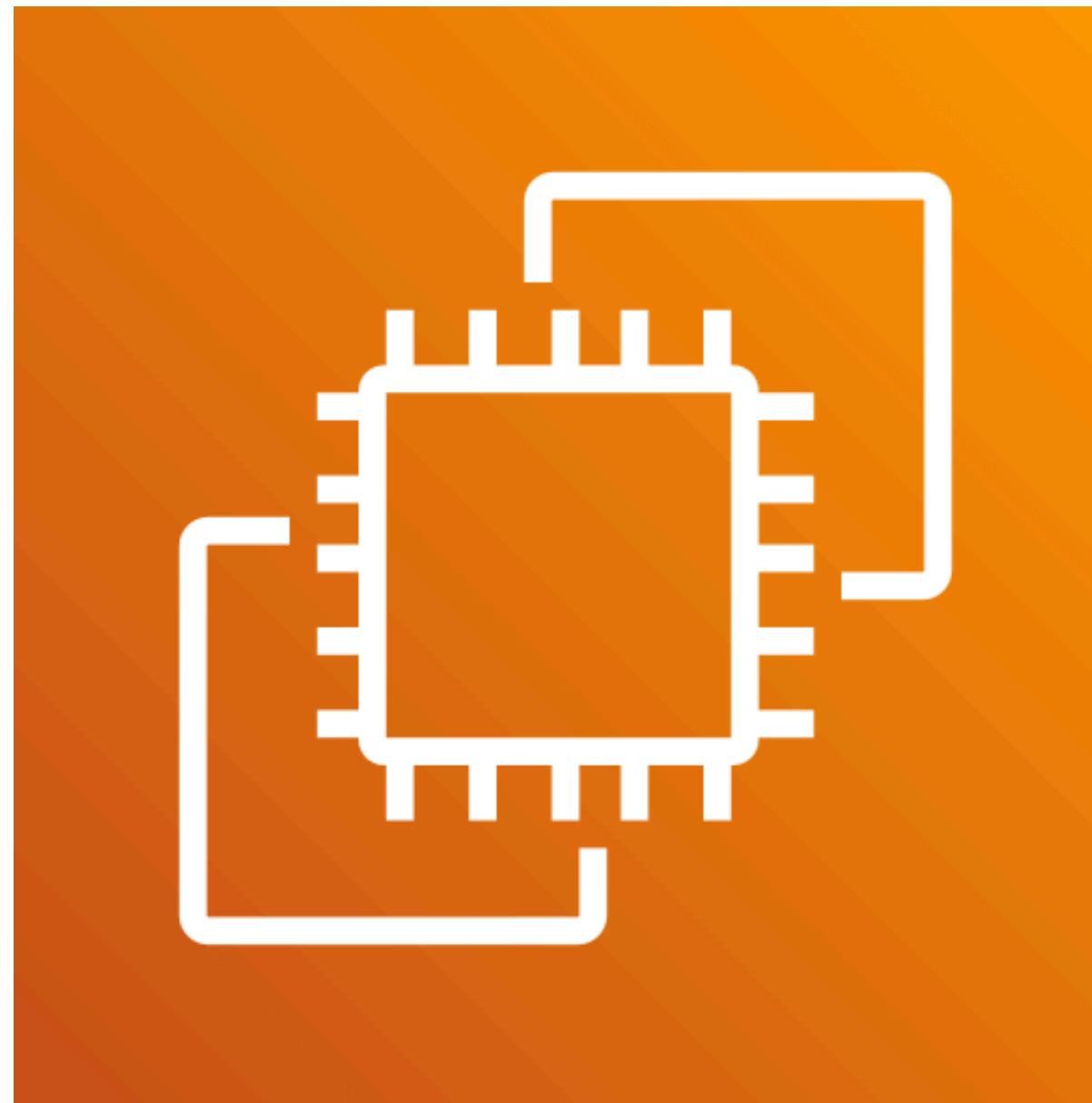
ENV : PRODUCTION

STEP-2: AMAZON MACHINE IMAGE



**OPERATING SYSTEM
SOFTWARES
ETC ---**

STEP-3: INSTANCE TYPE



CPU & RAM

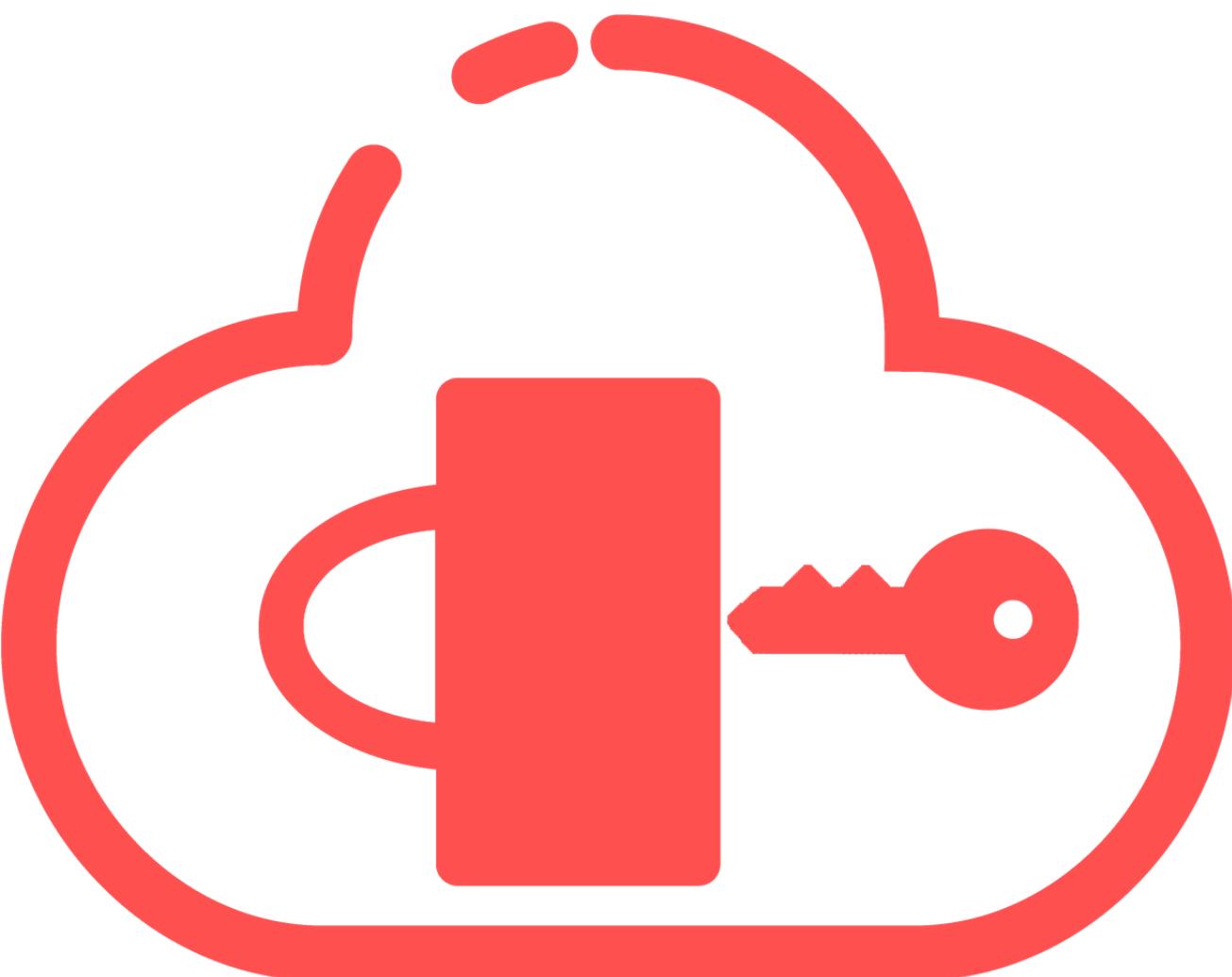
DEFAULT:T2.Micro

1-CPU & 1-GB RAM

MAX: u-24tb1.metal

448-CPUS & 24,576-GB RAM

STEP-4: KEY-PAIR



FOR SAFE & SECURE LOGIN TO SERVER

- 1. PUBLIC KEY: Store by AWS**
- 2. PRIVATE KEY: Store by User**

PRIVATE KEY: (PEM & PPK)

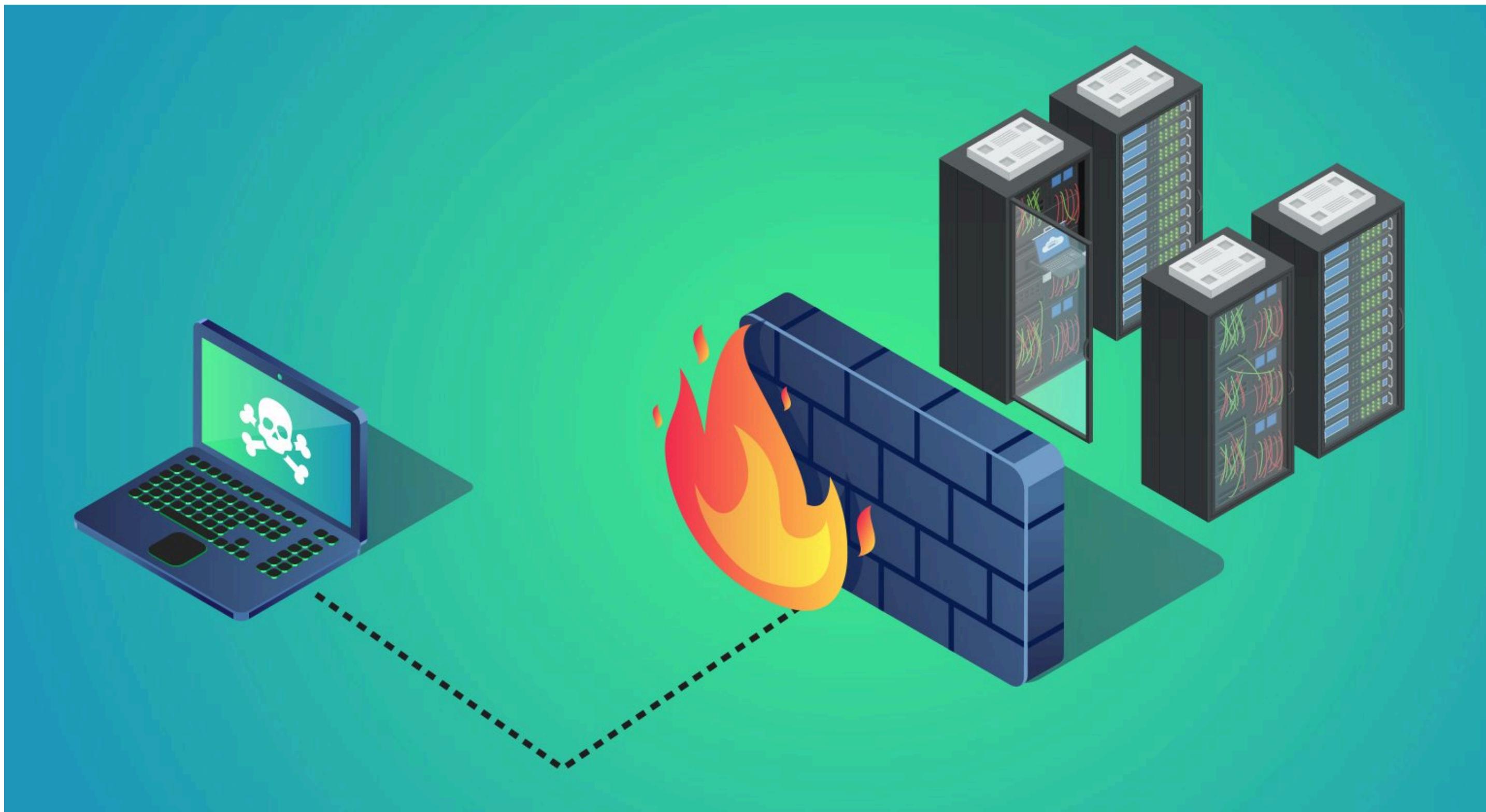
STEP-5: NETWORK & SECURITY



VPC: VIRTUAL PRIVATE CLOUD

- 1. USED TO ISOLATE SERVERS**
- 2. RESPONSIBLE FOR NETWORK**
- 3. CREATES OUR OWN NETWORK**

STEP-5: FIREWALL



SECURITY GROUPS

USED TO ALLOW/DENY TRAFFIC TO SERVERS

REQUEST = IN-COMMING

RESPONSE = OUT-GOING

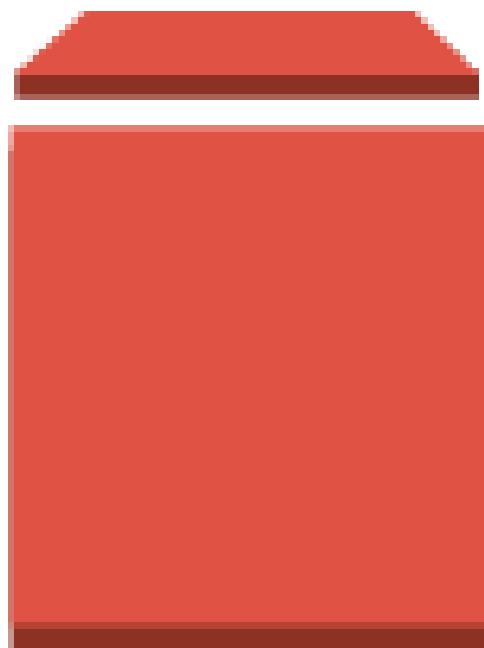
IMPORTANT RULES:

SSH: SECURE SHELL : 22

HTTP : 80

HTTPS : 443

STEP-6: STORAGE



**EBS: ELASTIC BLOCK STORE
TO PROVIDE STORAGE FOR THE SERVER
DEFAULT: 8GB MAX: 16 TB**

**Amazon
EBS**

STEP-7: ADVANCE DETAILS

SCRIPTS

SERVER BEHAVIOUR

SERVER PLACEMENT



**LEARNING DEVOPS
FROM THE SOURCES LIKE
BLOGS, DOCS & VIDEOS**

**UNDERSTANDING DEVOPS
FROM REAL LIFE EXAMPLES
THROUGH OUR CLASSES**

YOU ARE JUST FEW STEPS AWAY TO REACH YOUR JOB



**NORMAL DEVOPS IN 2014
WITH LIMITED SOURCES**



**ADVANCE DEVOPS IN 2024 WITH
DOCKER, K8S, TERRAFORM ETC..**

