

# WHAT IS A SERVER





I WANT  
FOOD

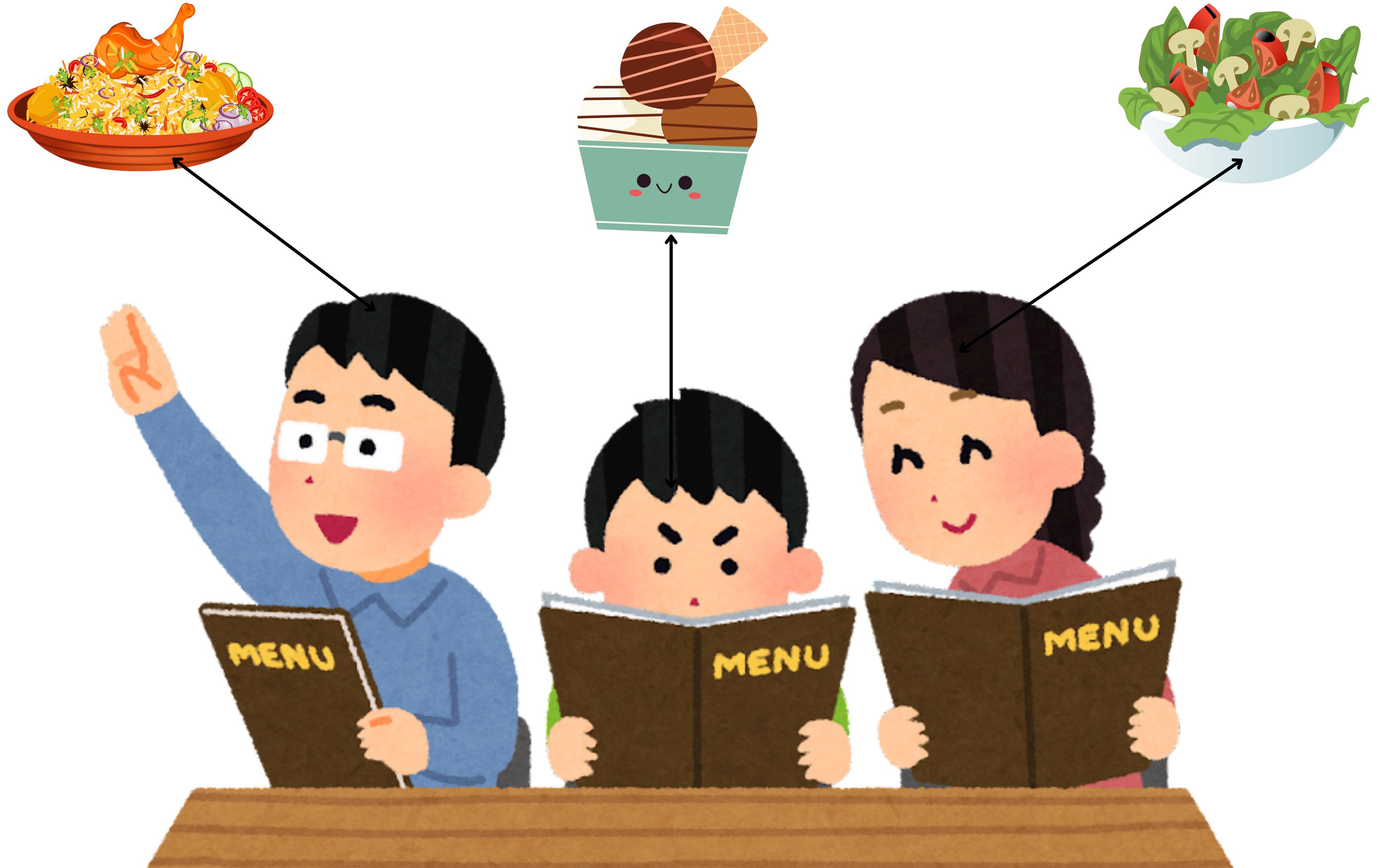
MENU

MENU

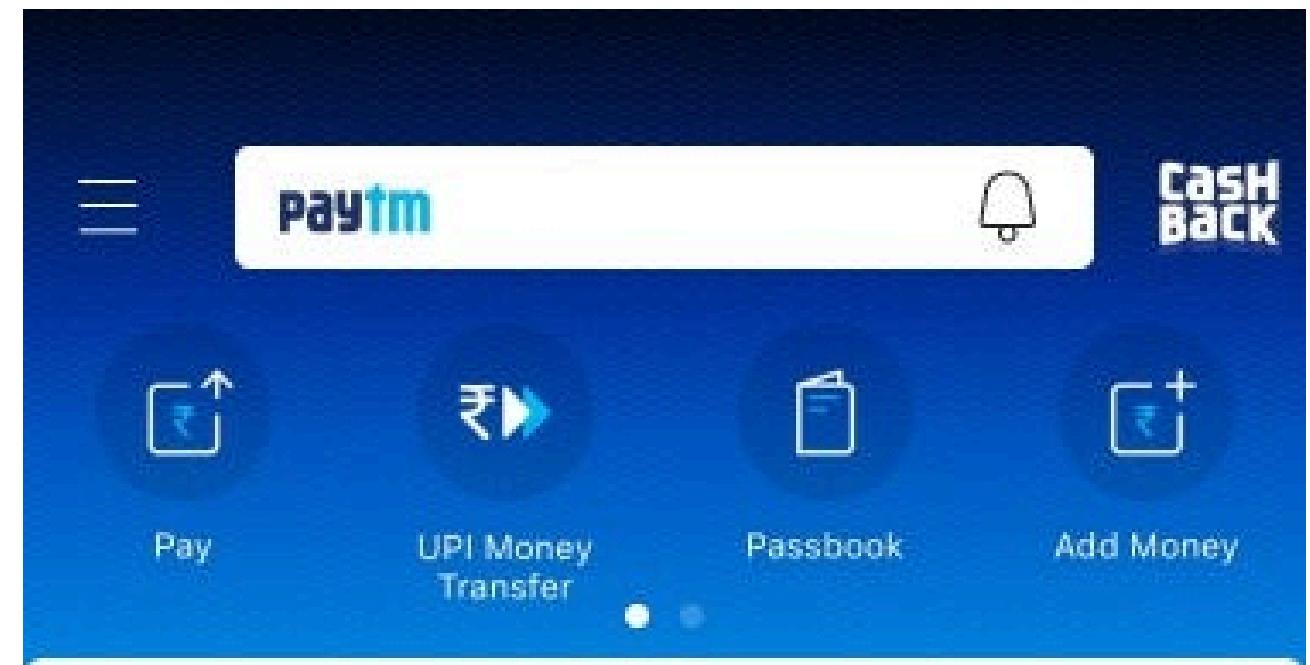
MENU



**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**

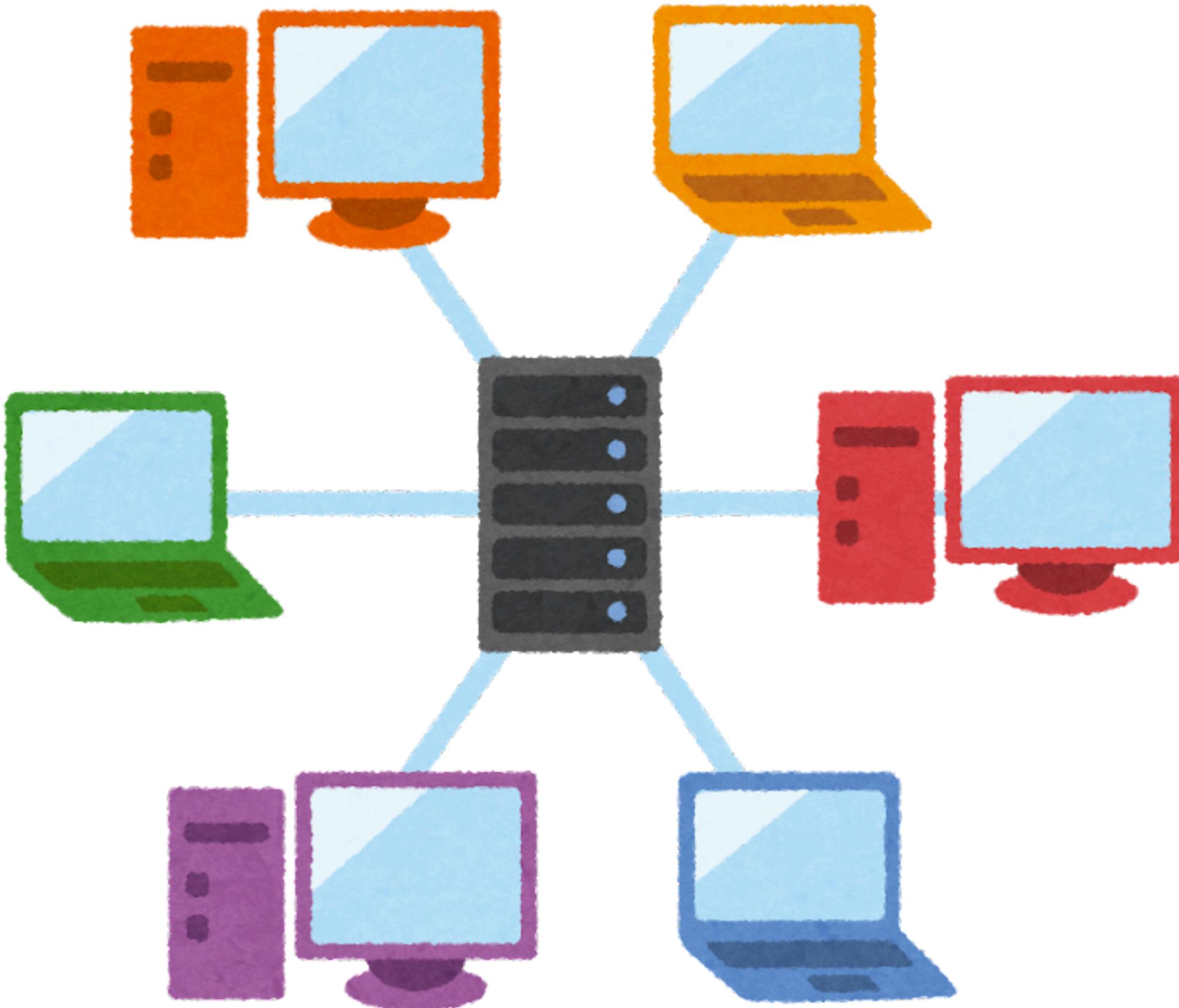
**user-2**  
**Flight**

**user-3**  
**Dth**

**user-4**  
**Recharge**

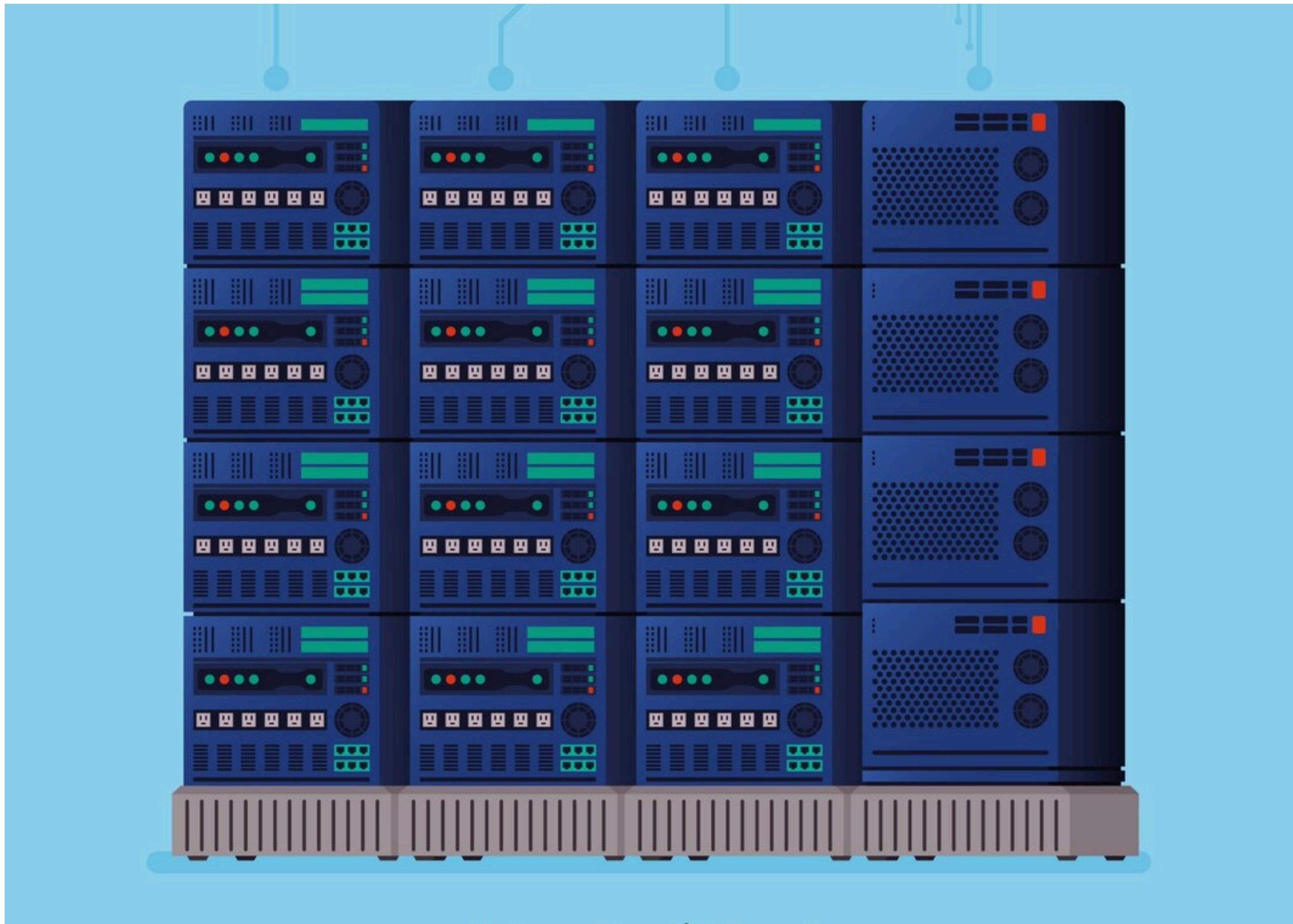
**user-5**  
**Train**

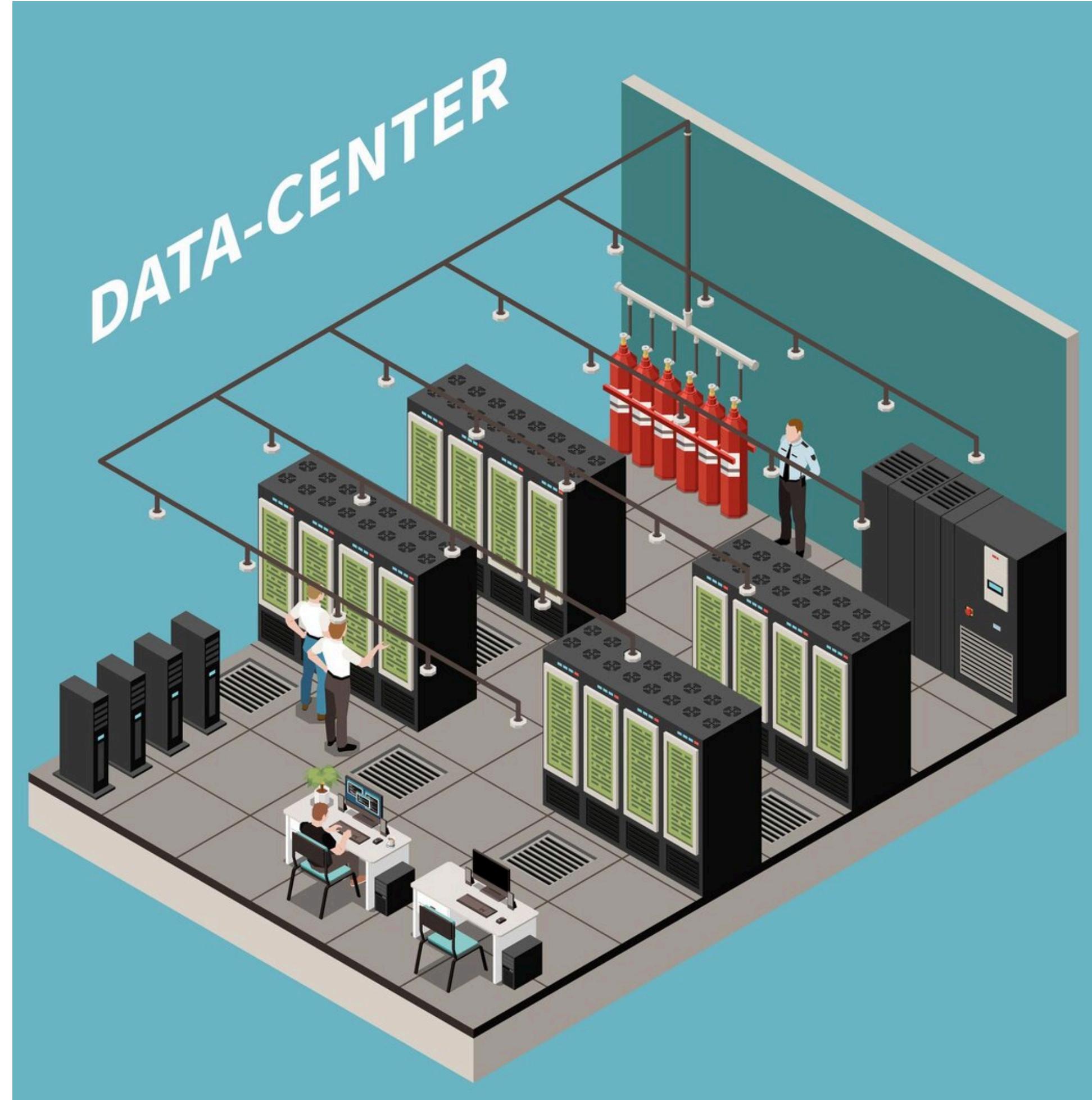
**user-6**  
**Loan**



# WHERE IS THE SERVER







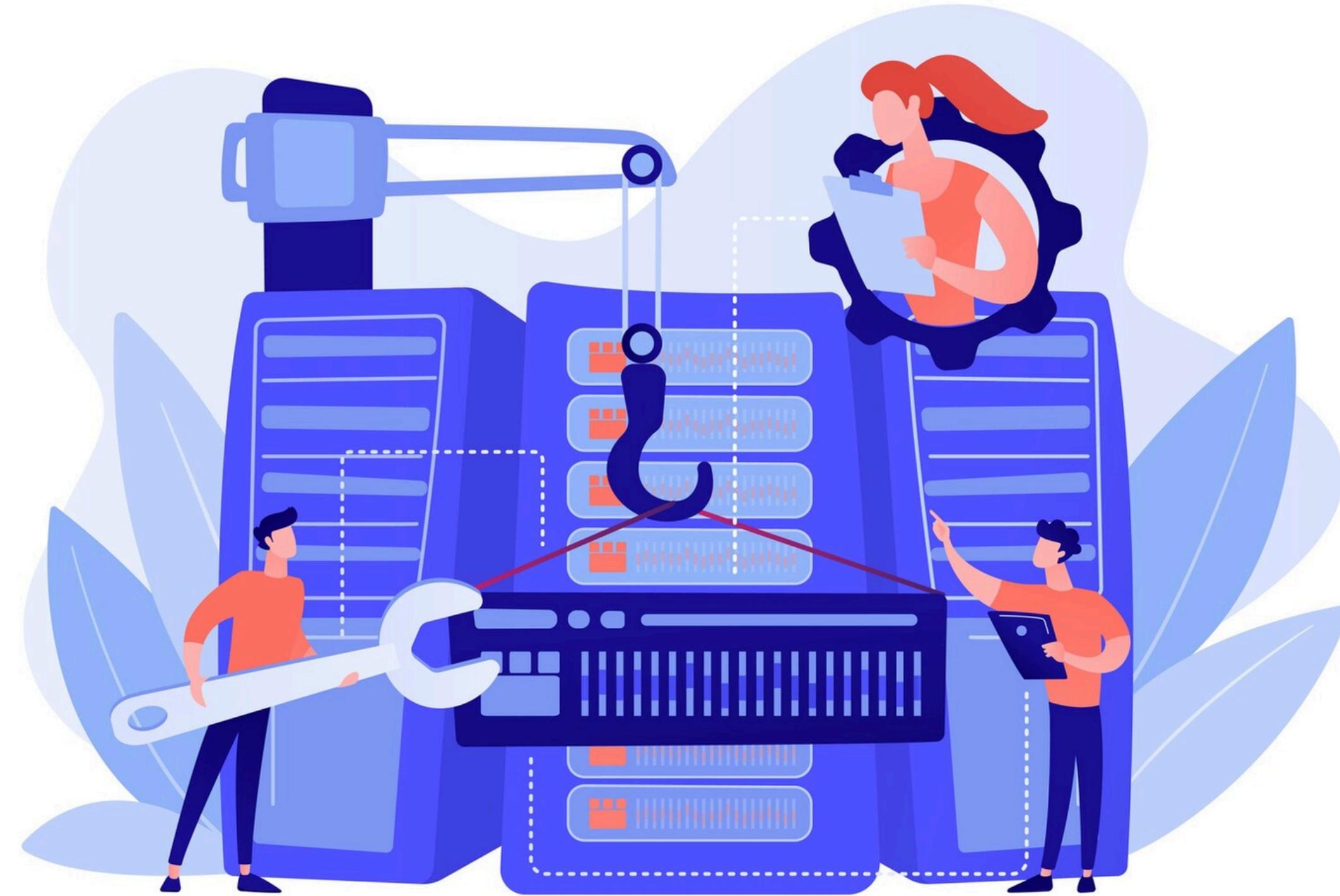
# WHERE IS THE DATA CENTER



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



# HOW TO BUILD A SERVER





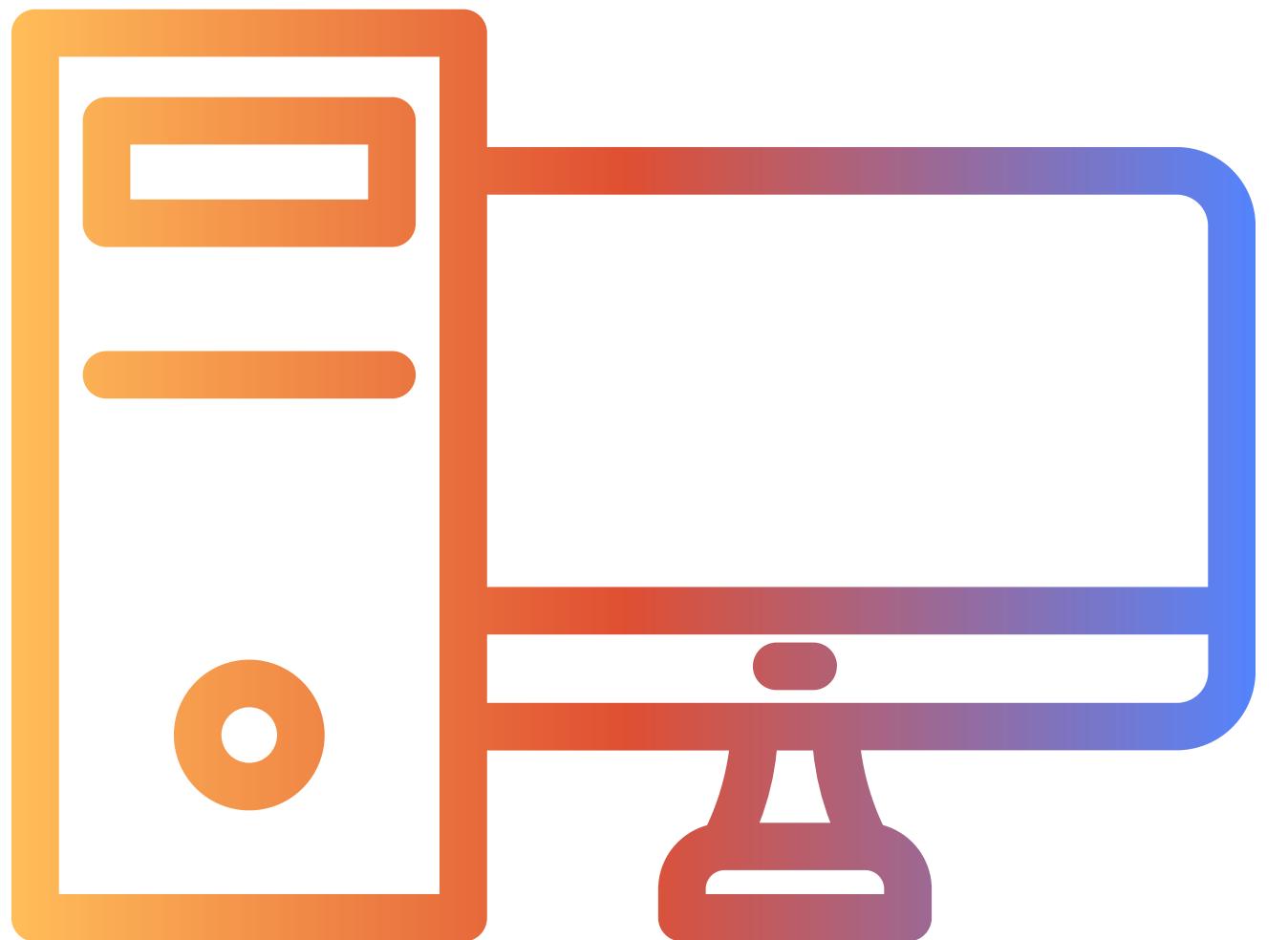
# PHYSICAL SERVER



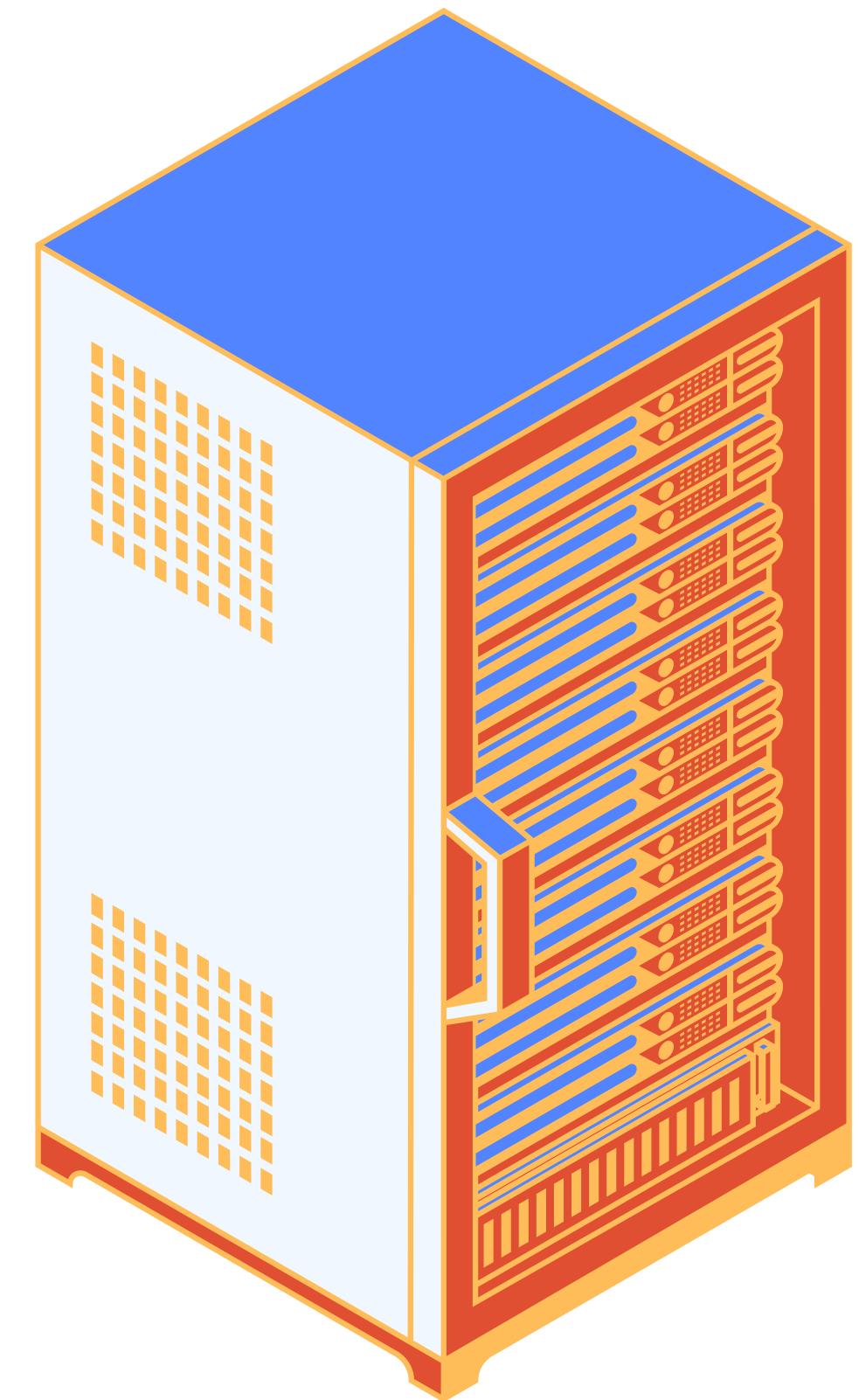
# CLOUD SERVER



# COMPUTER



# SERVER



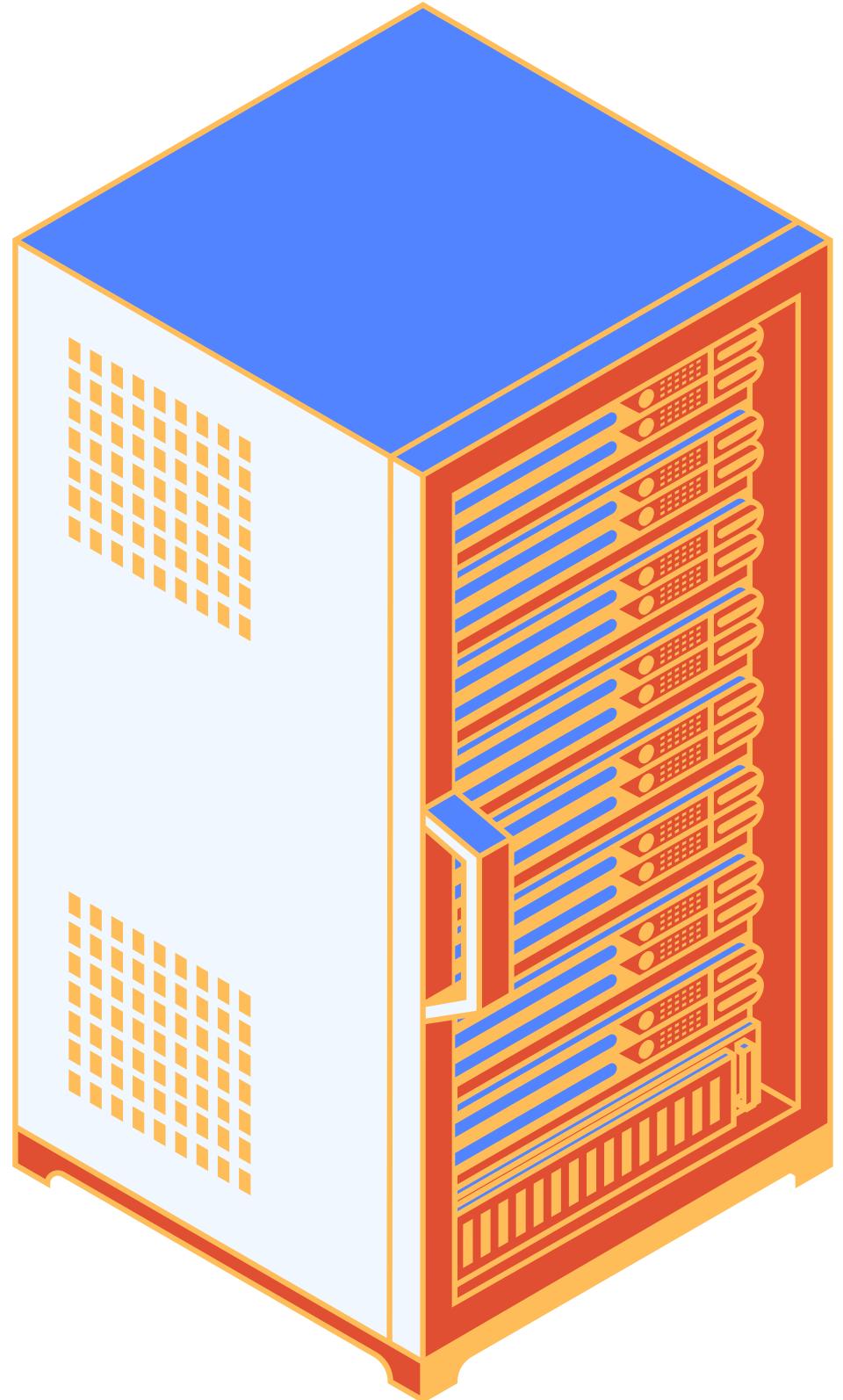
# COMPUTER



# MAIN COMPONENTS

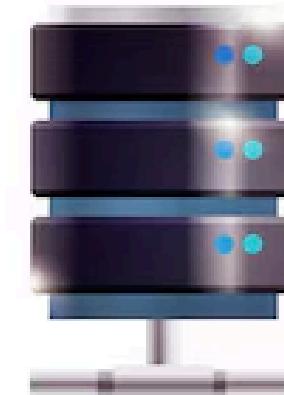
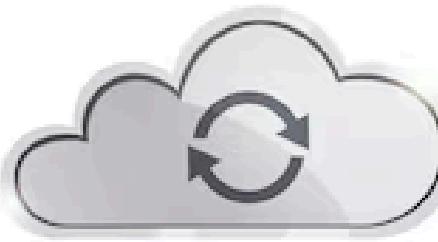
**OPERATING SYSTEM  
HARDWARE (CPU, RAM)  
SECURITY  
NETWORK  
STORAGE**

# **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**

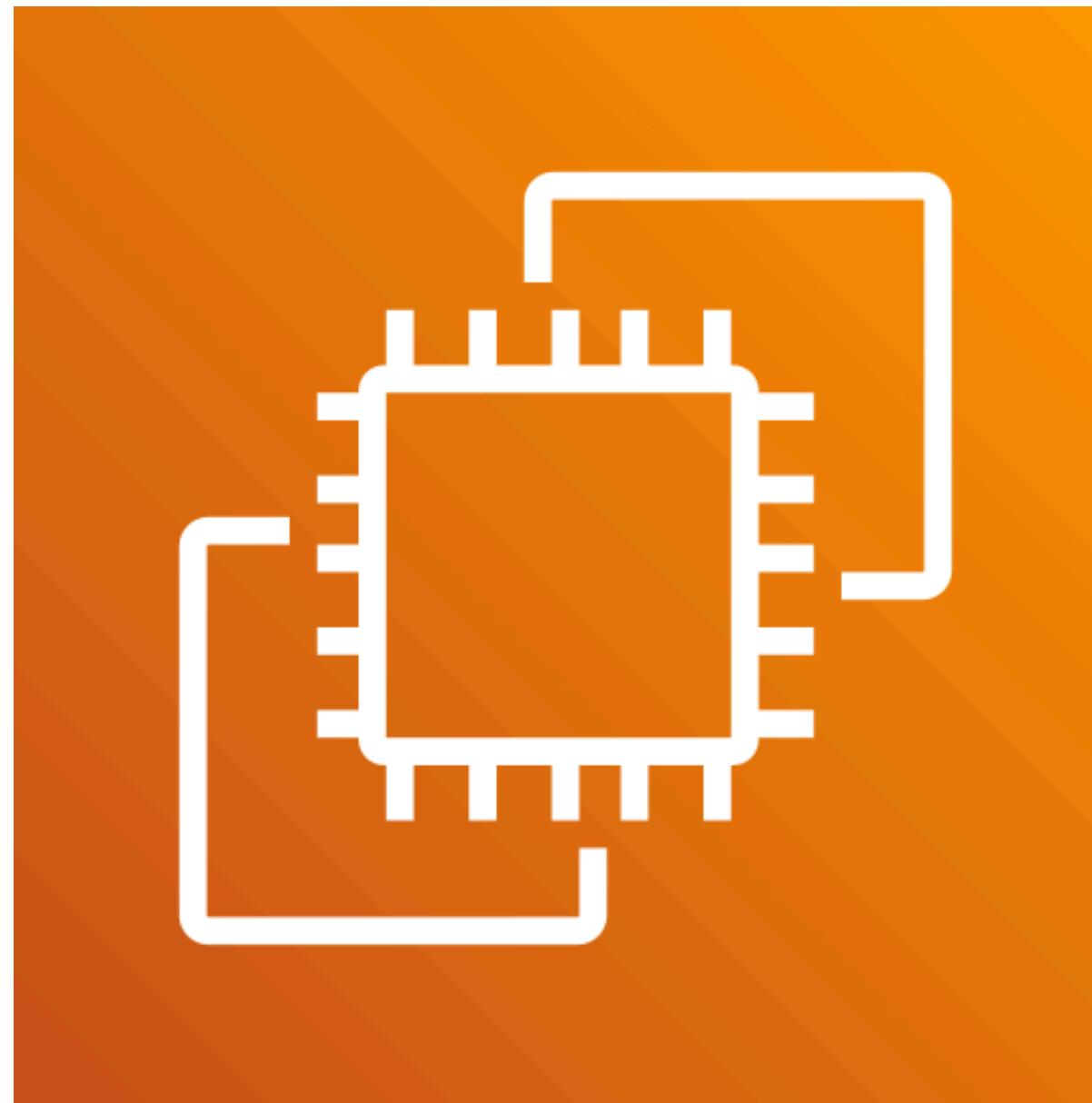
**ENV : PRODUCTION**

# **STEP-2: AMAZON MACHINE IMAGE**



**OPERATING SYSTEM  
SOFTWARES  
ETC ---**

# STEP-3: INSTANCE TYPE



**CPU & RAM**

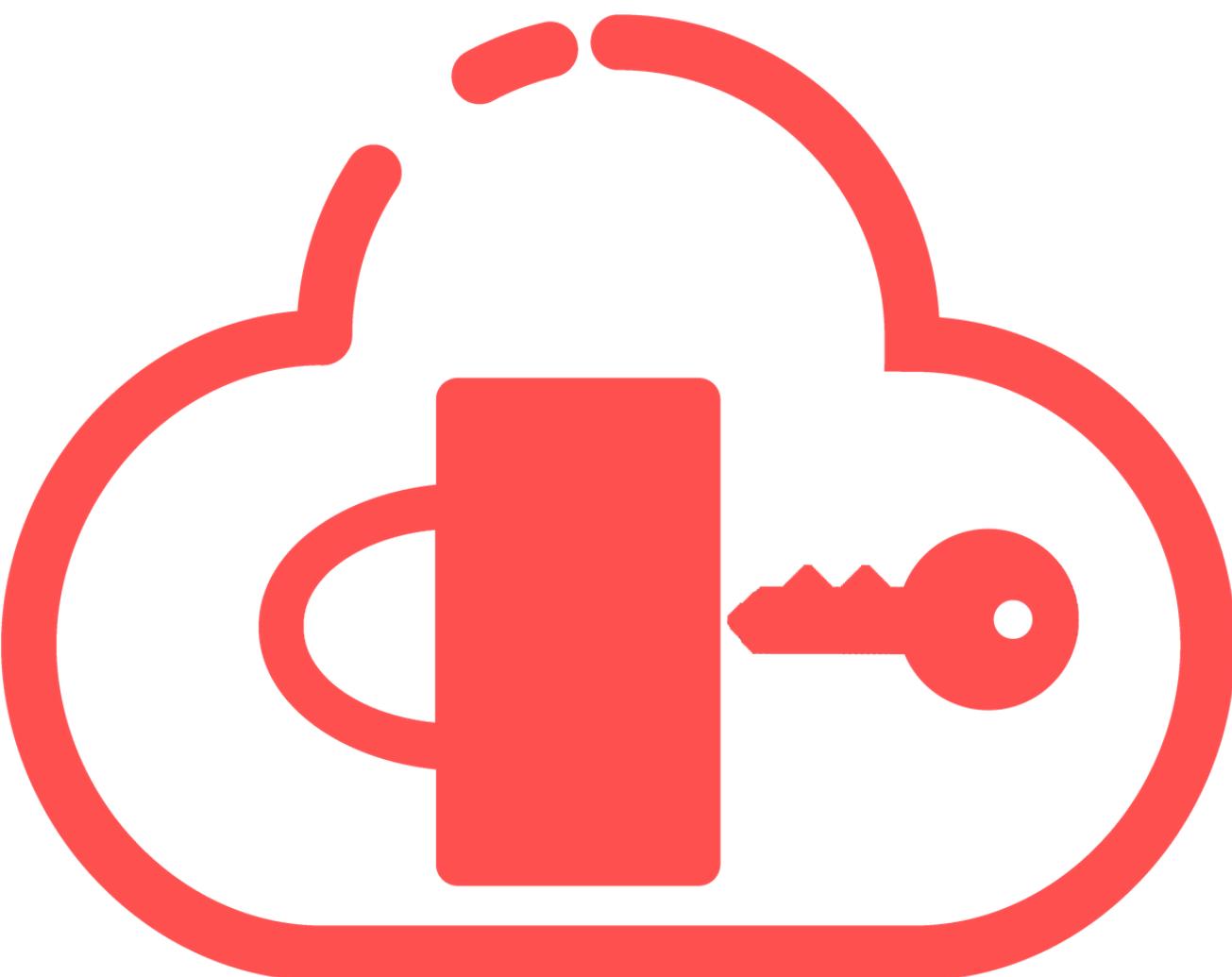
**DEFAULT:T2.Micro**

**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)**

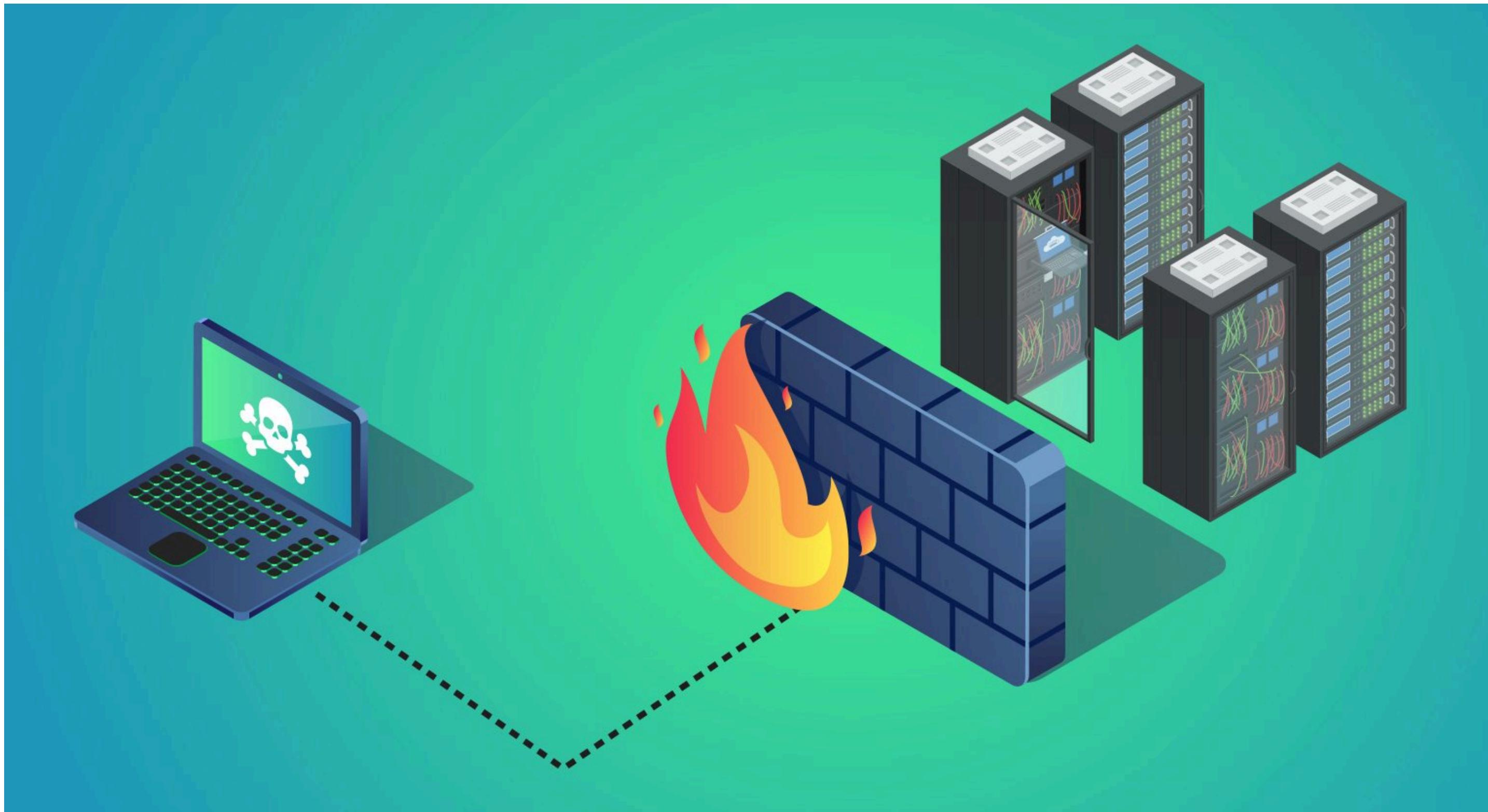
## STEP-5: NETWORK & SECURITY



**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**

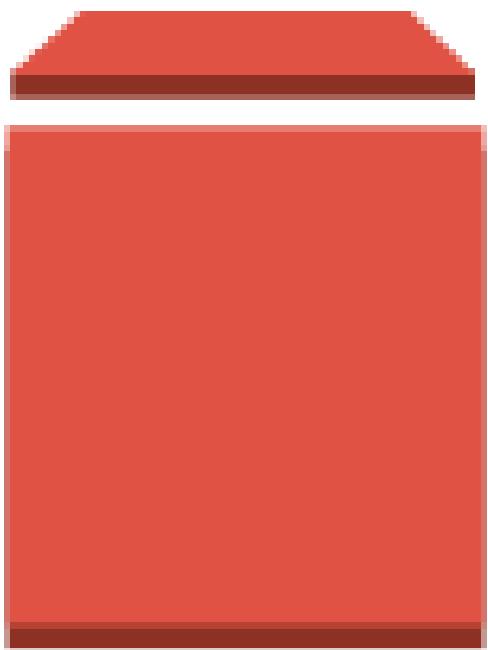
**IMPORTANT RULES:**

**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**

-----