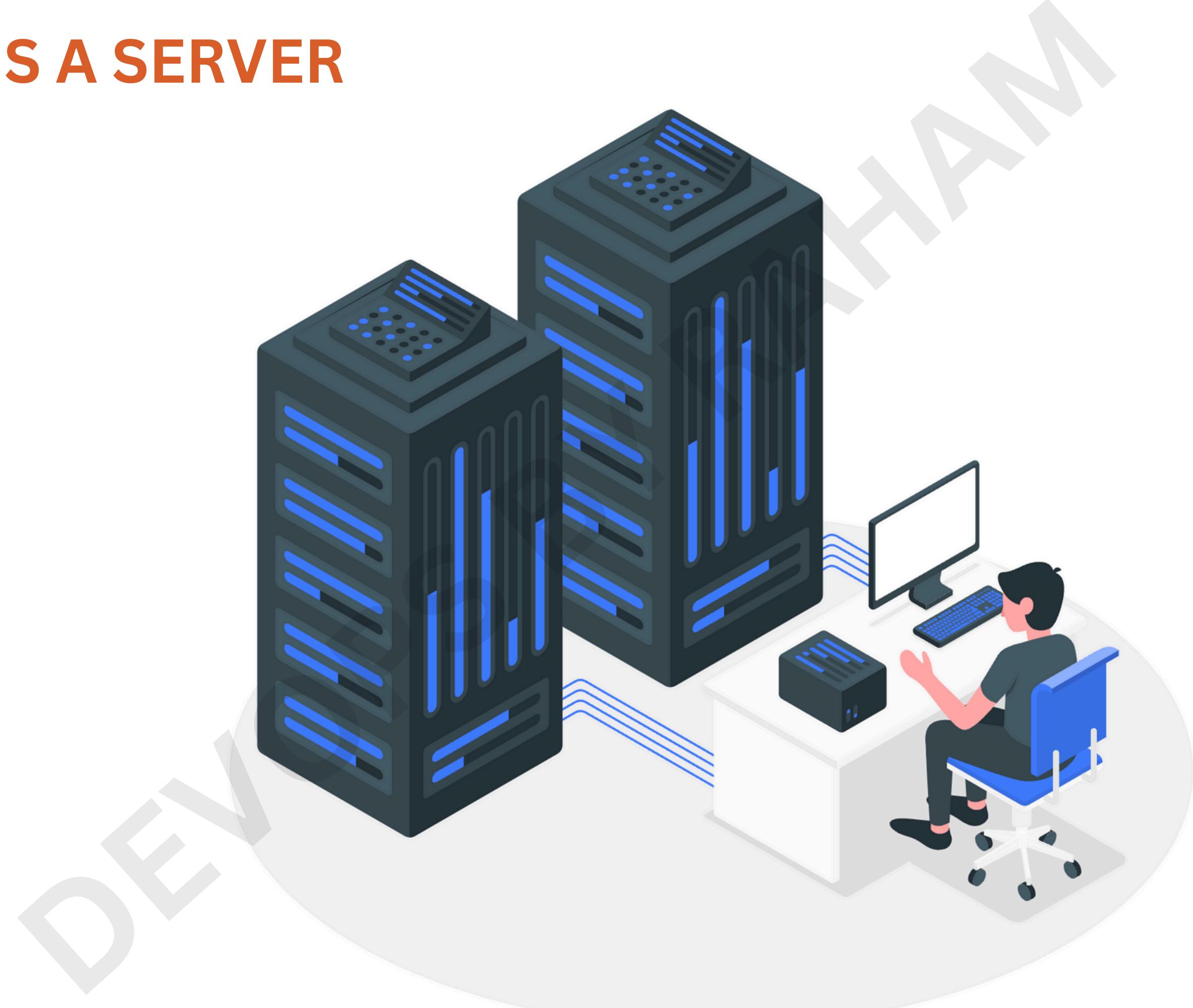


# WHAT IS A SERVER

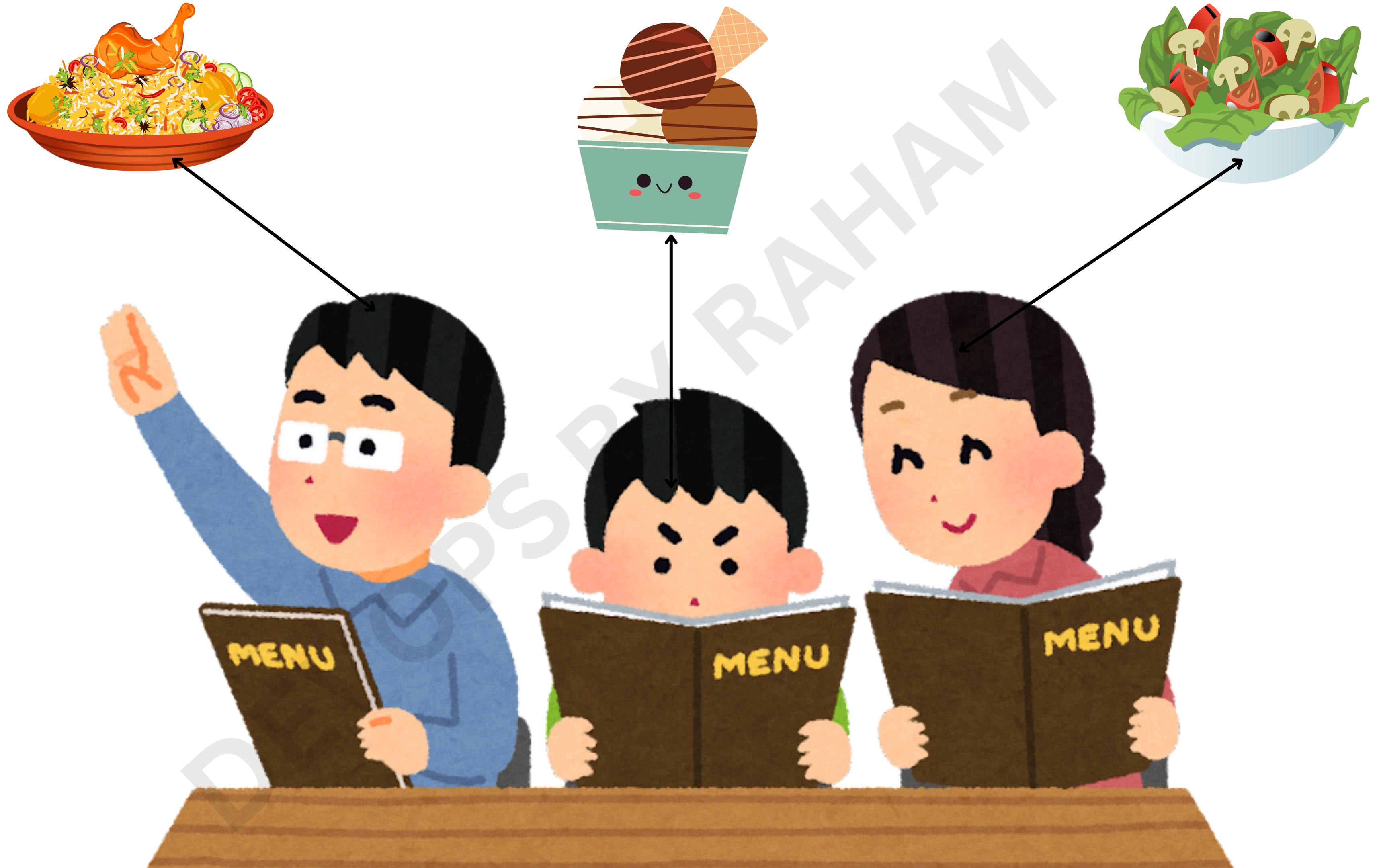






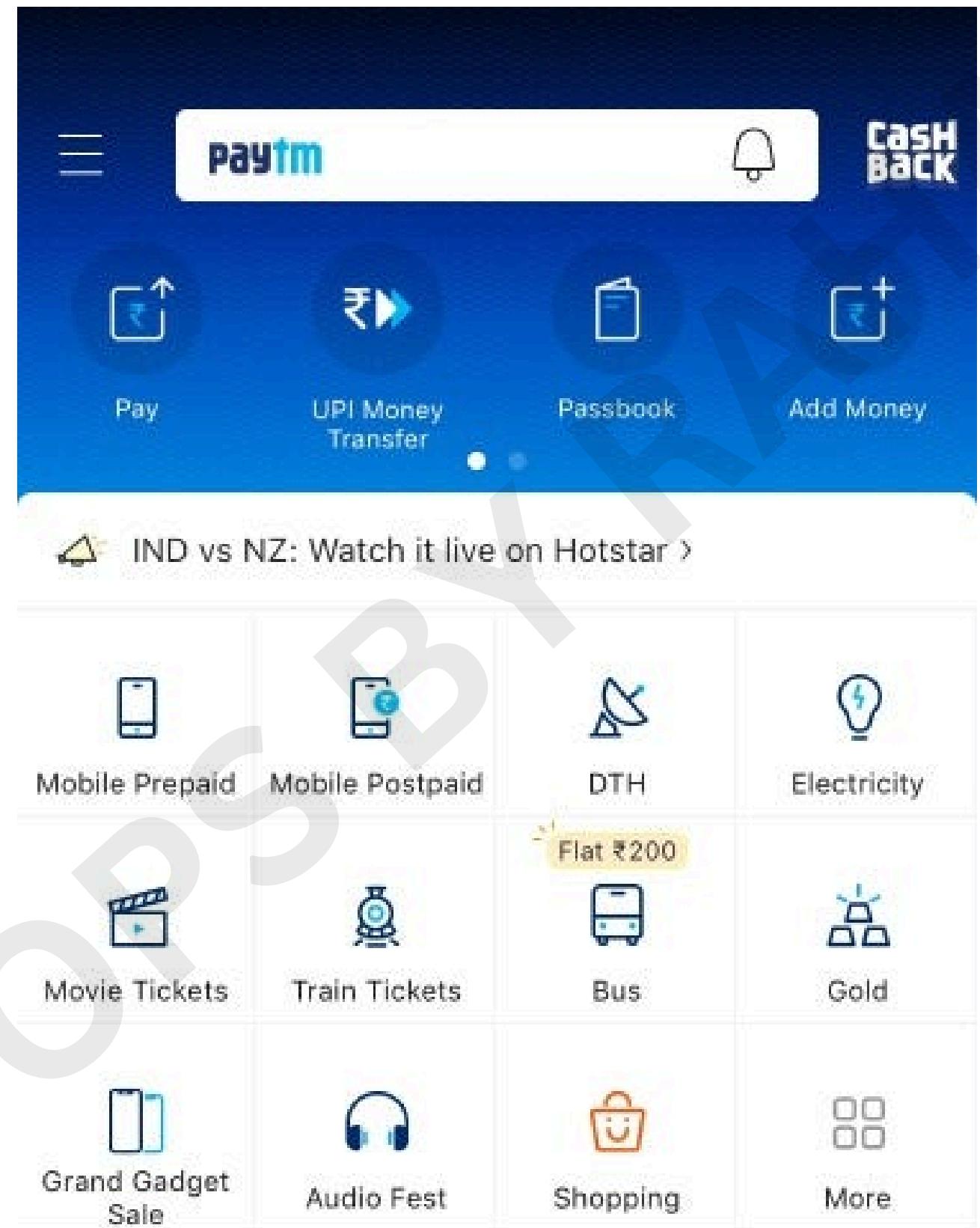
YES SIR  
MAY I KNOW  
WHAT YOU WANT







DEVOPS  
DEPARTMENT



**user-1**  
**Movies**

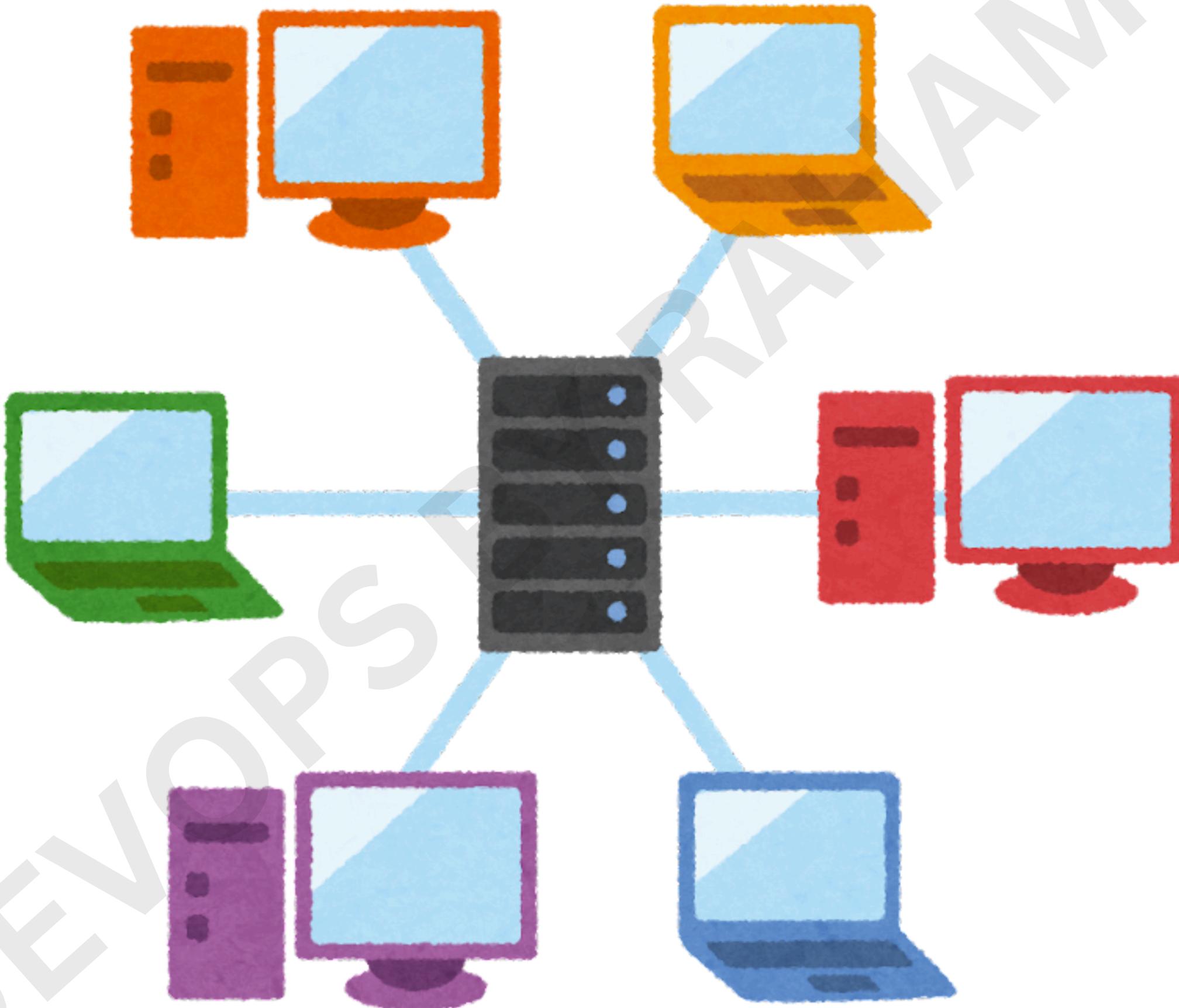
**user-2**  
**Flight**

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

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

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

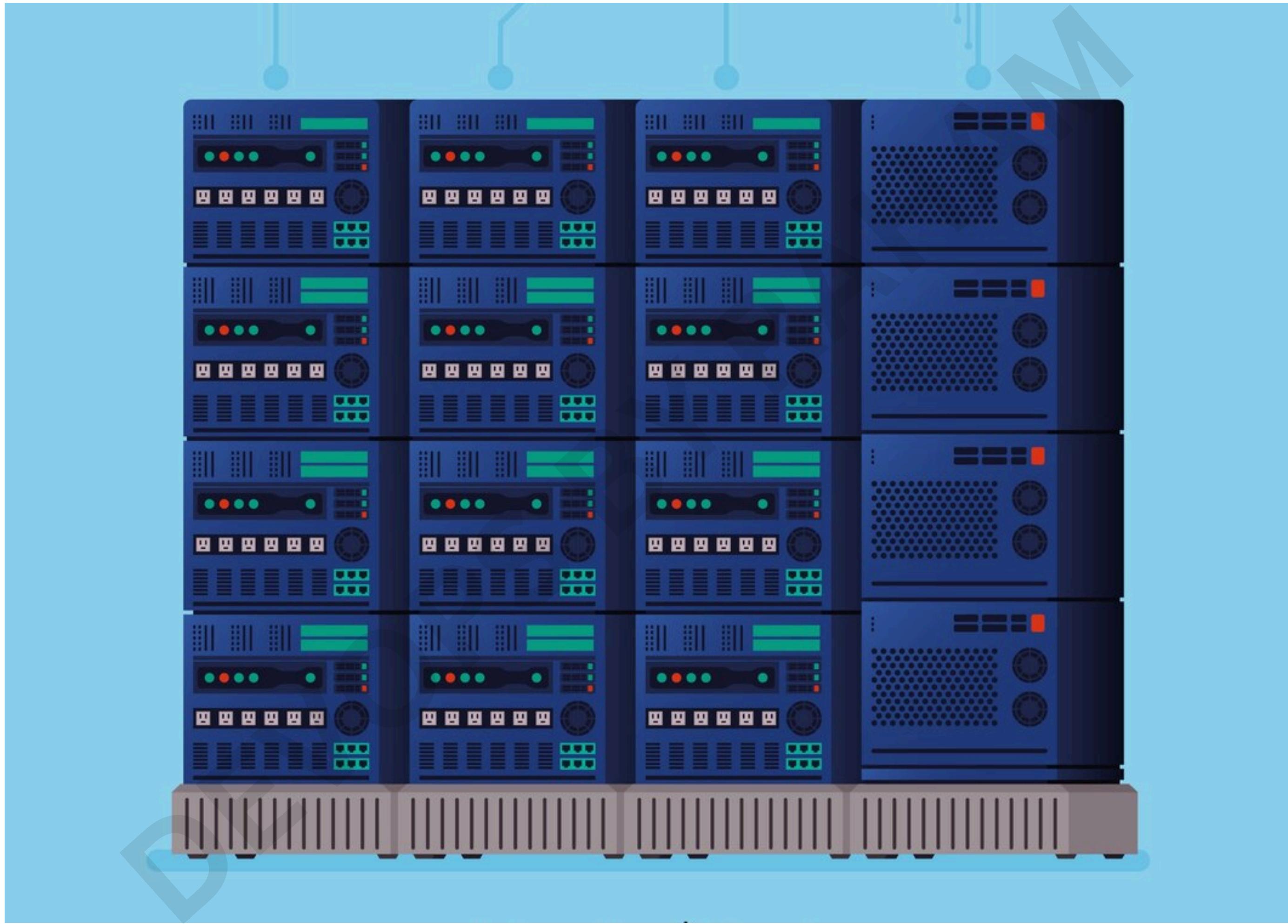
**user-6**  
**Loan**

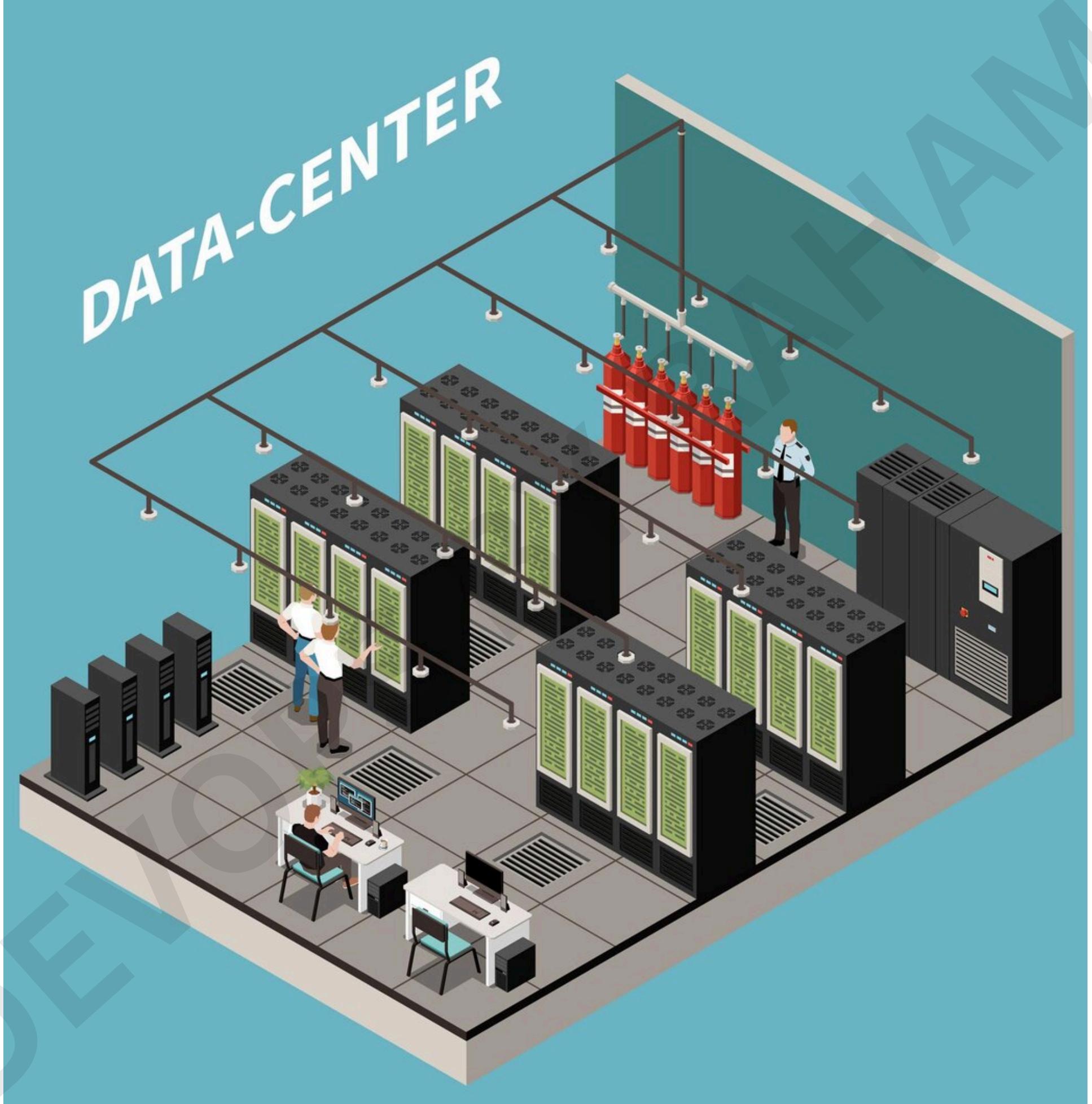


# WHERE IS THE SERVER

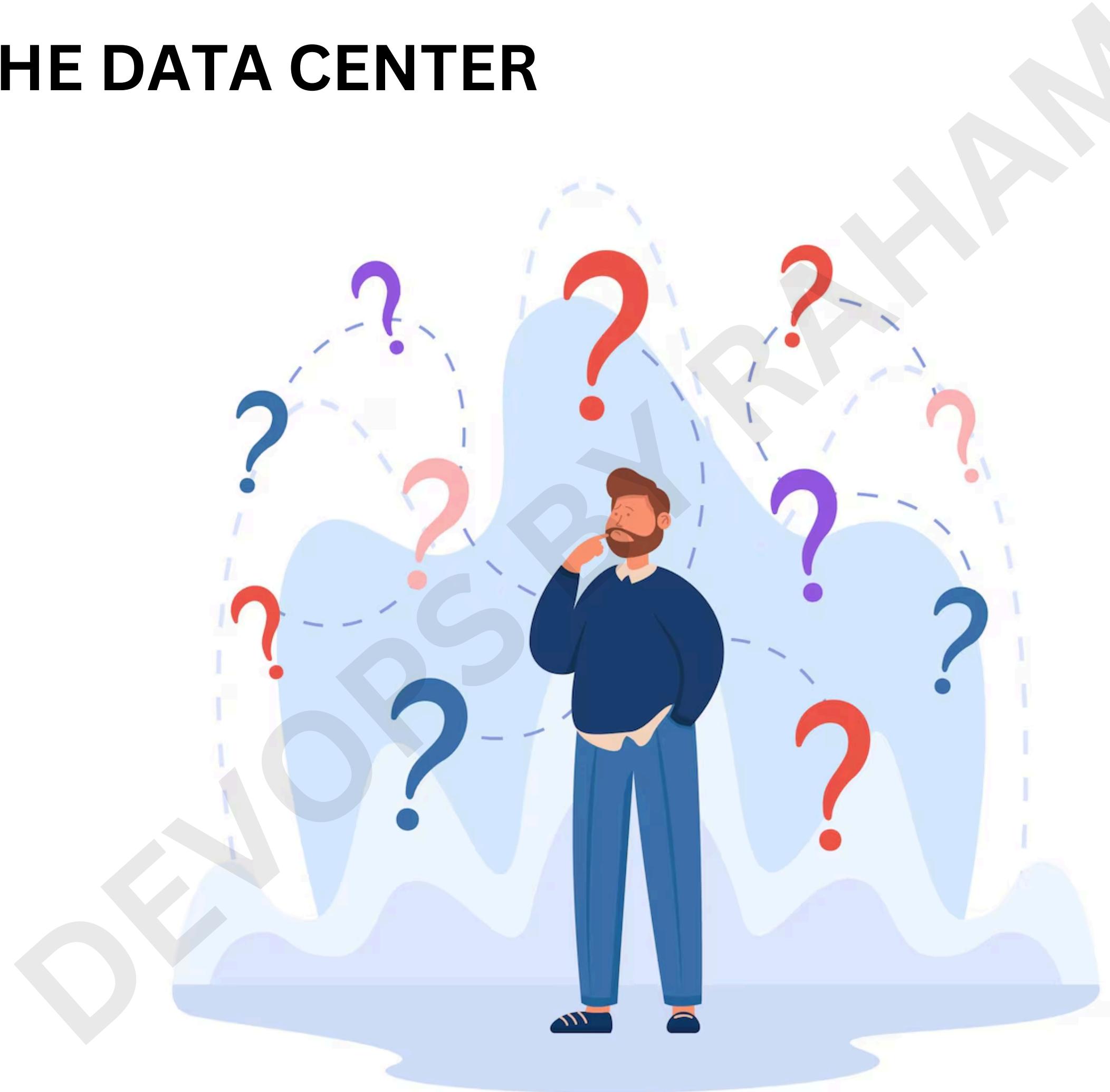


DEVELOPERAHAM





# 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





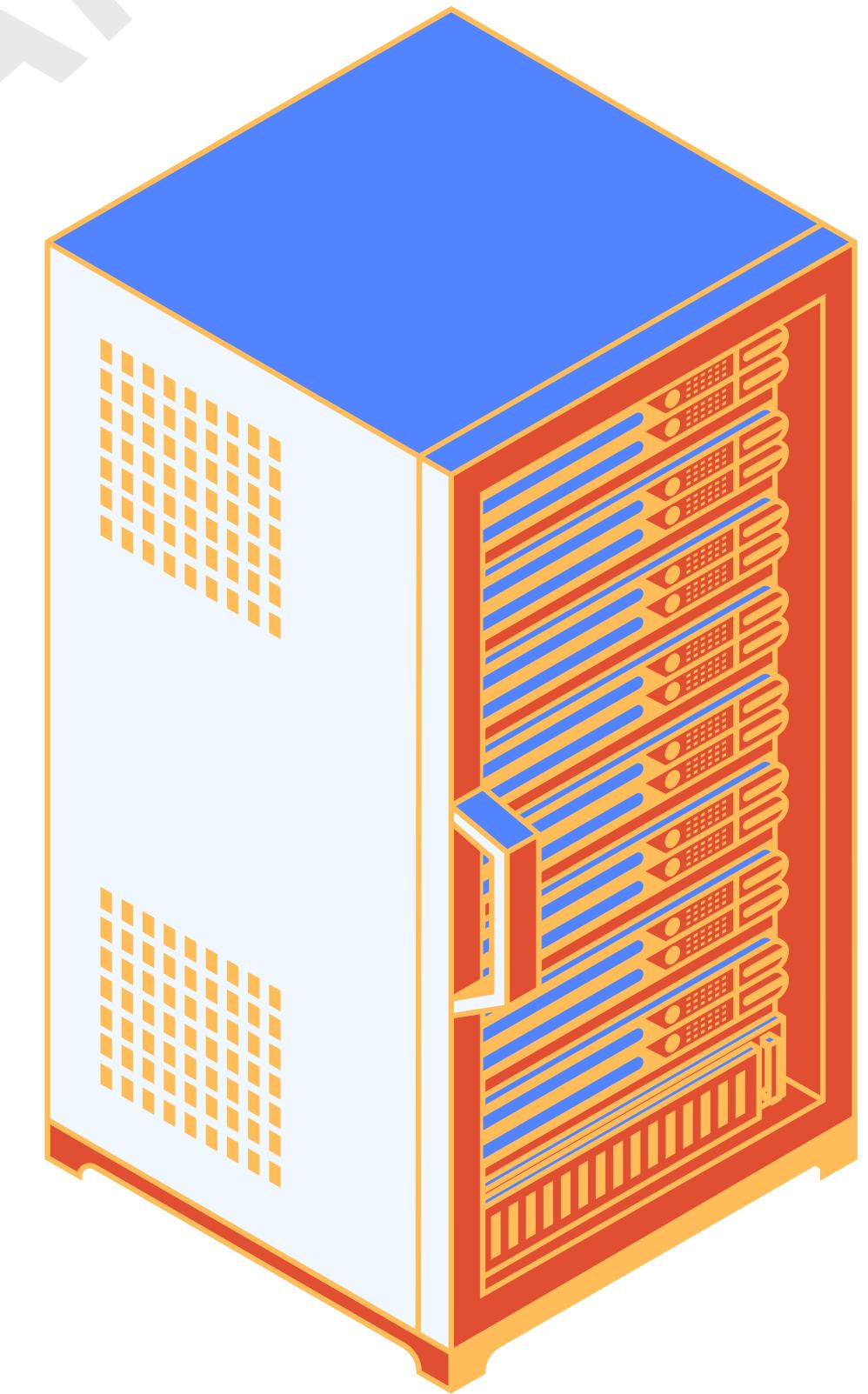
AREY MARCUS  
WHY U R TAKING  
TENSION MAN  
LEMME EXPLAIN



# COMPUTER

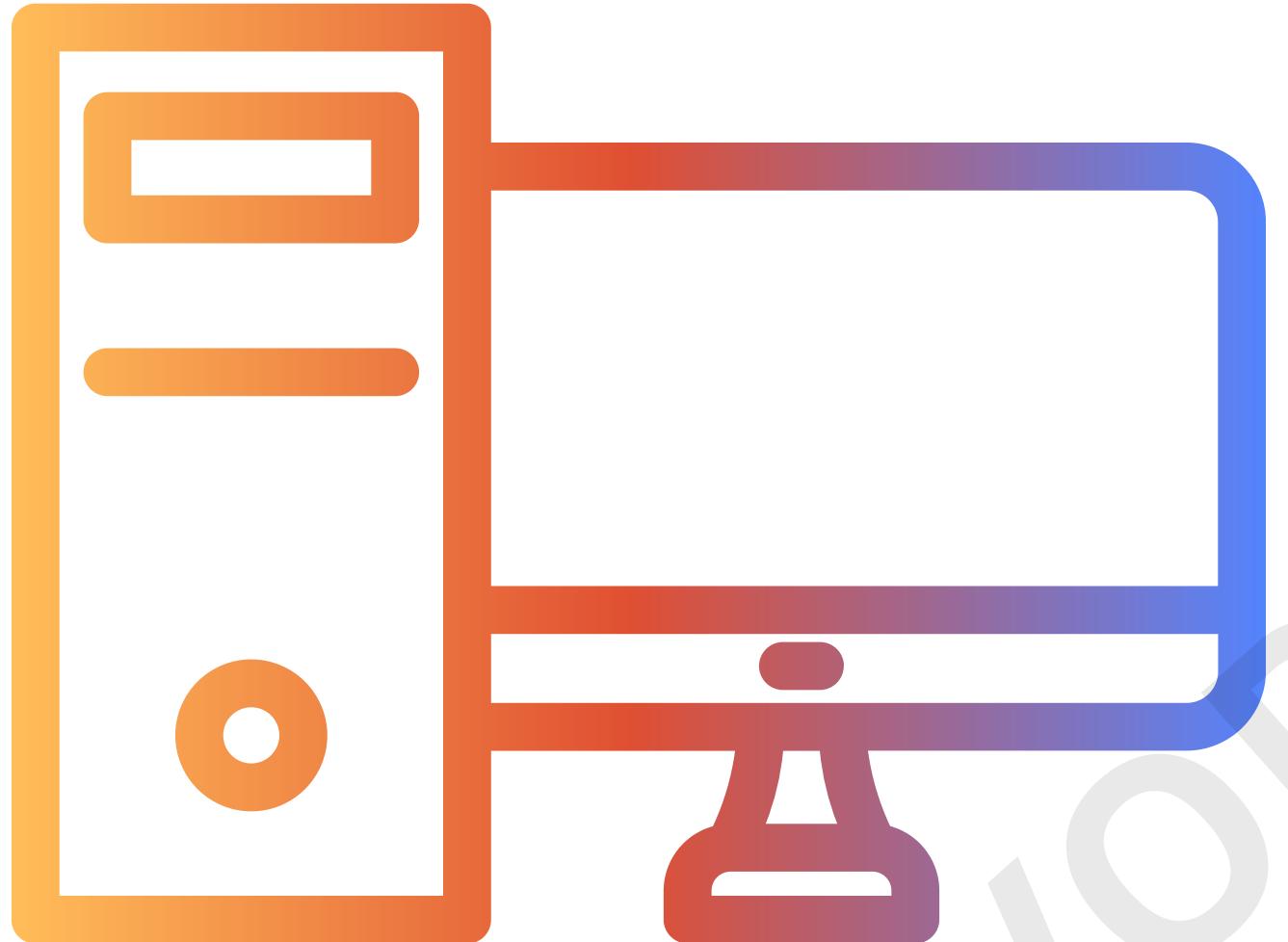


# SERVER



BY GRAHAM  
DEVOPS

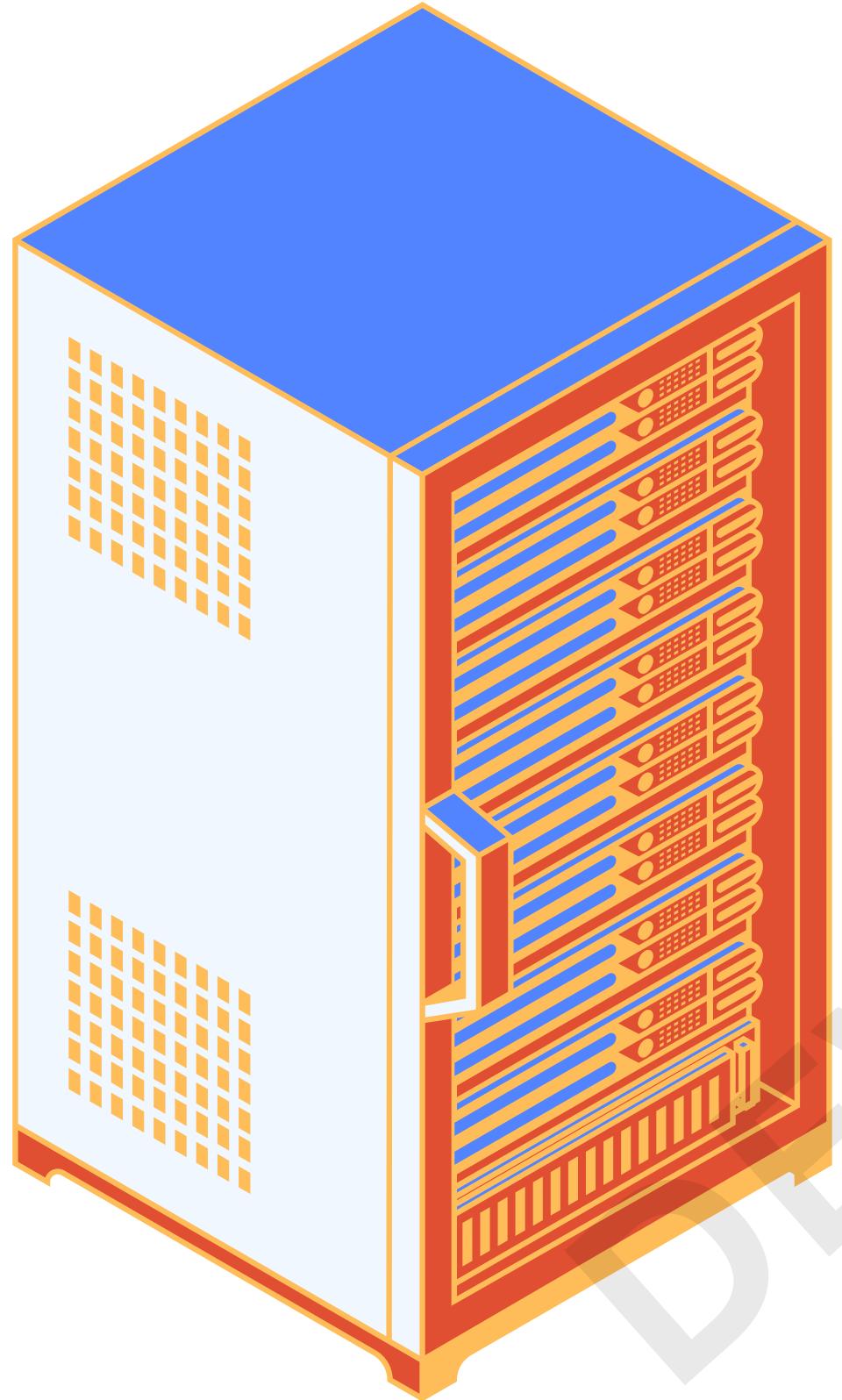
# COMPUTER



# 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

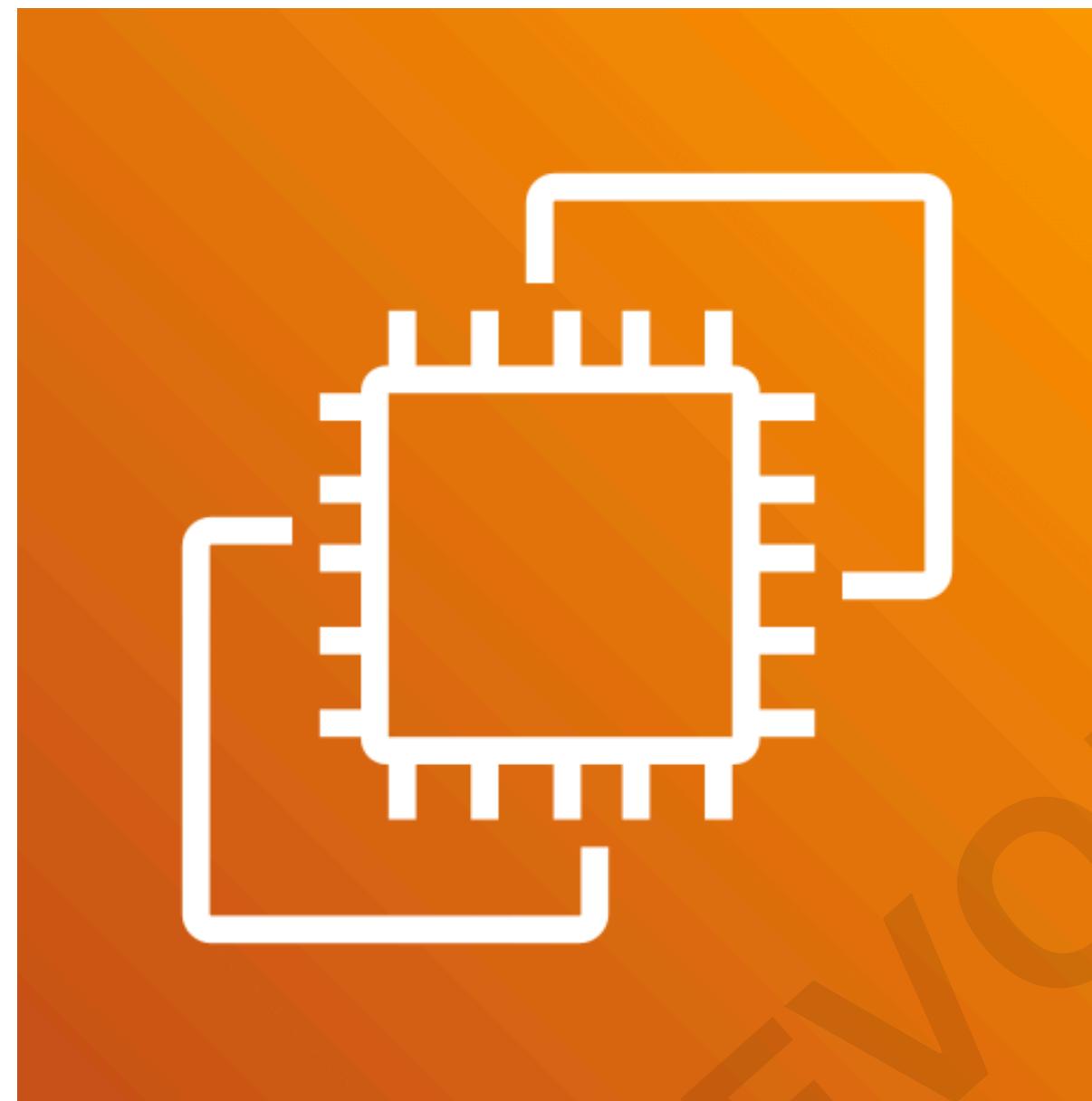
**TAGS: TO IDENTIFY SERVERS**  
**NAME : WEB-SERVER**  
**CLIENT: SWIGGY**  
**ENV : PRODUCTION**

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



**OPERATING SYSTEM  
SOFTWARES  
ETC ---**

## STEP-3: INSTANCE TYPE



CPU & RAM

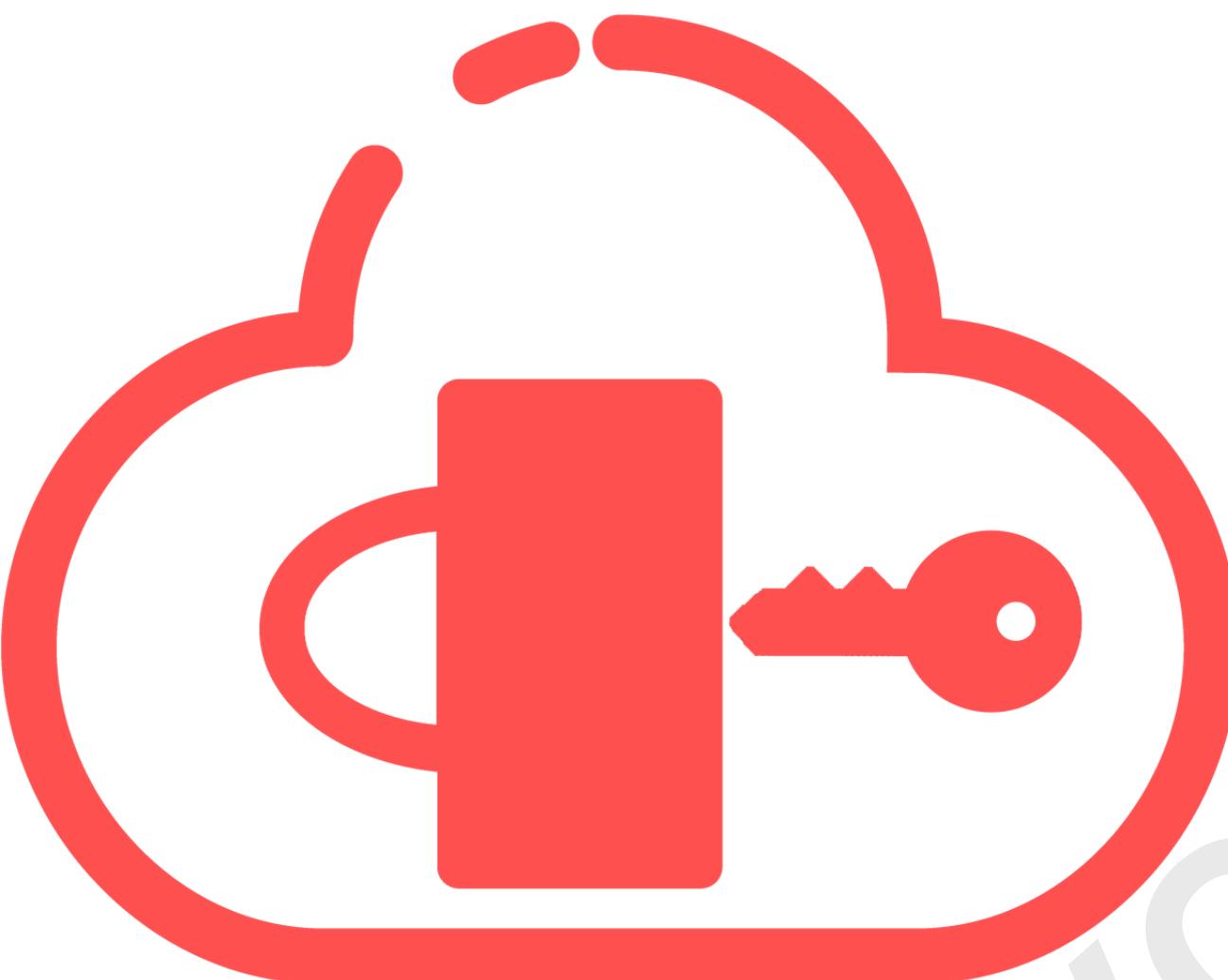
DEFAULT:T2.Micro

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)**

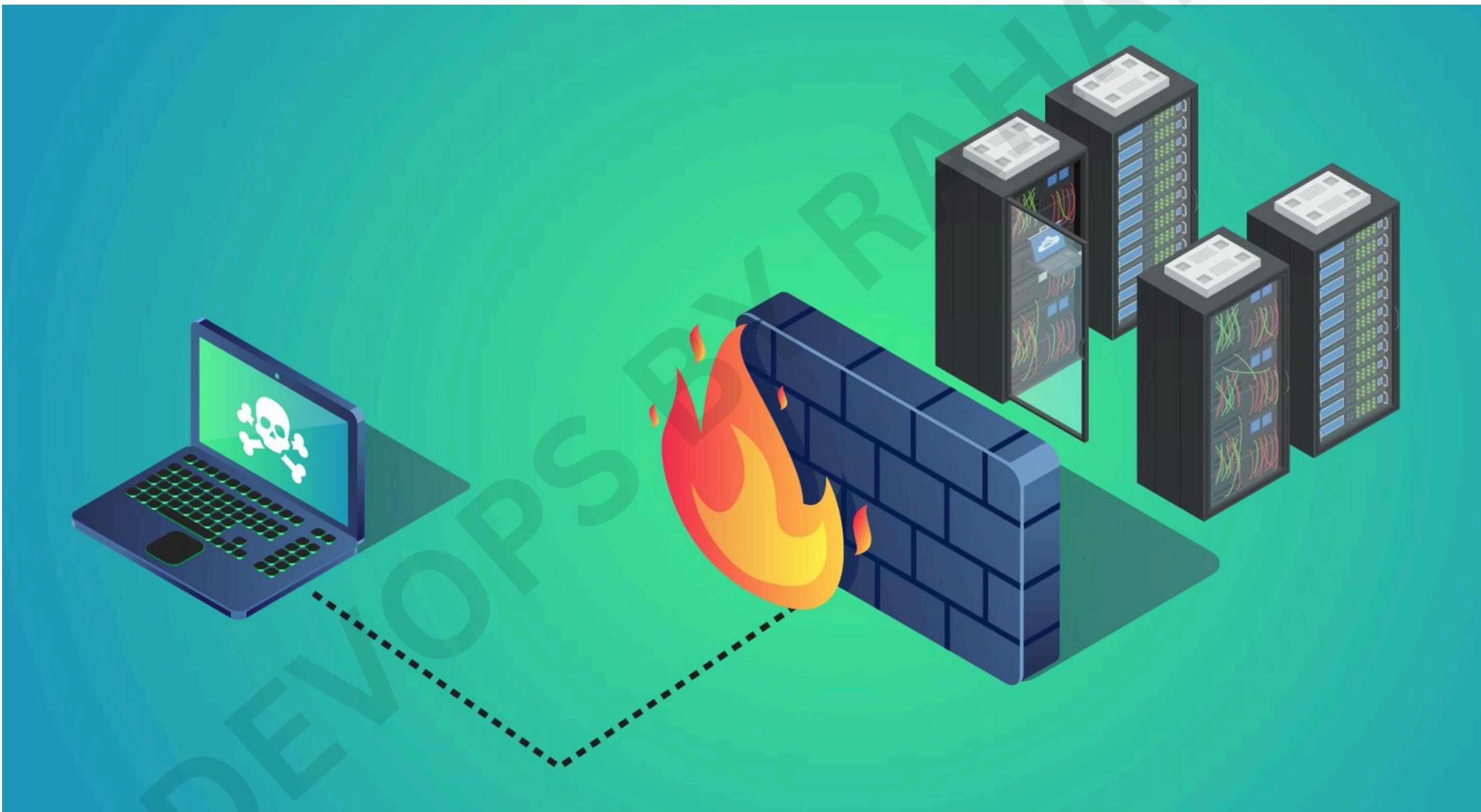
## STEP-5: NETWORK & SECURITY



**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**

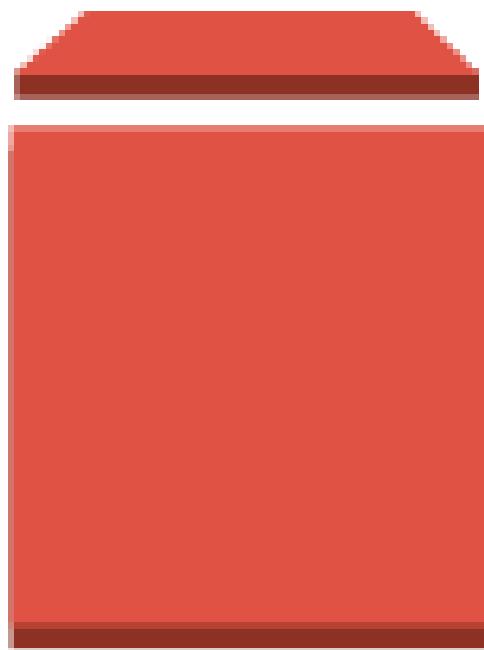
**IMPORTANT RULES:**

**SSH: SECURE SHELL : 22**

**HTTP : 80**

**HTTPS : 443**

## STEP-6: STORAGE



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

Amazon  
**EBS**

## **STEP-7: ADVANCE DETAILS**

**SCRIPTS**

**SERVER BEHAVIOUR**

**SERVER PLACEMENT**

-----

DEVELOPS BY RAHAMAM



**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  
AI, SECURITY, FINOPS, CLOUD ---**

