



# WHAT IS VPC ?

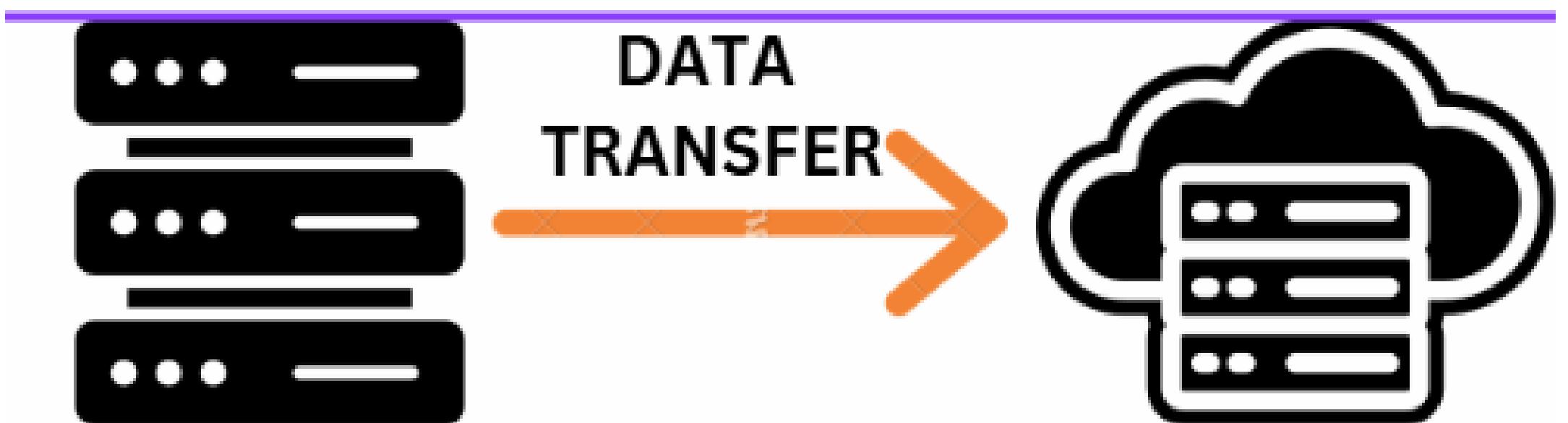
- VPC: VIRTUAL PRIVATE CLOUD
- ITS A PRIVATE NETWORK ON OUR AWS CLOUD.
- IT PROVIDE PRIVACY, SECURITY AND ISLOATION TO OUR SERVERS.
- SIMPLY WE CAN CREATE OUR OWN NETWORK AS PER OUR REQUIRMENTS
- ITS COMPLETELY FREE

# VPC-1

# VPC-2

## WHY TO USE

- Isolation and Security
- Custom Network Design
- Resource Management
- Regional Expansion
- On-Premises Integration
- Data Transfer



# COMPONENTS

- SUBNETS
- INTERNET GATEWAY
- NAT GATEWAY
- ROUTE TABLE
- NACL
- ELASTIC IP
- SECURITY GROUPS
- PEERING

## **SUBNETS:**

To reduce traffic, the subnet will divide the big network into smaller, connected networks. Up to /16, 200 user-defined

## **TYPES:**

- 1. PUBLIC SUBNET : FOR USERS**
- 2. PRIVATE SUBNET : FOR INTERNAL PURPOSE**

## **INTERNET GATEWAY:**

Connects your VPC to the internet.

## **NAT GATEWAY:**

Connects your Private server to the internet indirectly.

## **ROUTE TABLE:**

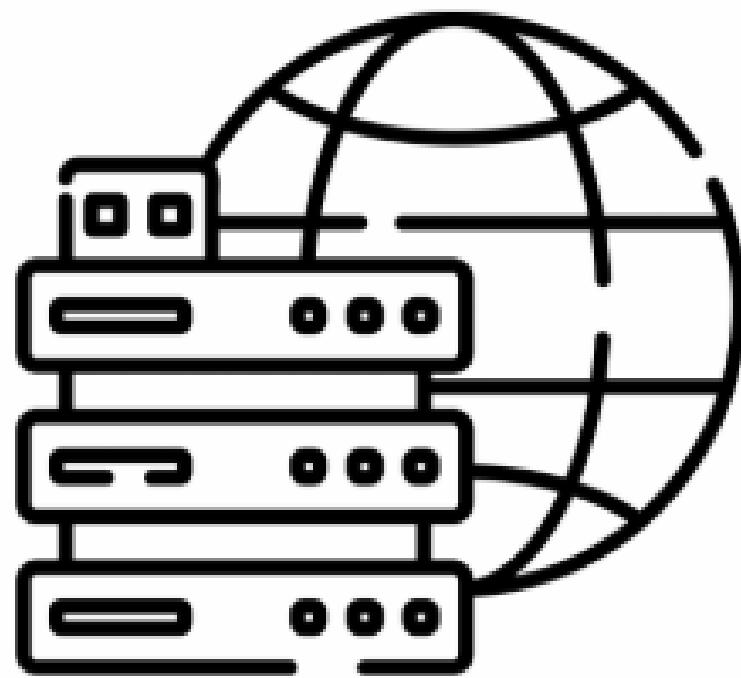
sends the traffic to your subnets

# PRIVATE IP RANGE

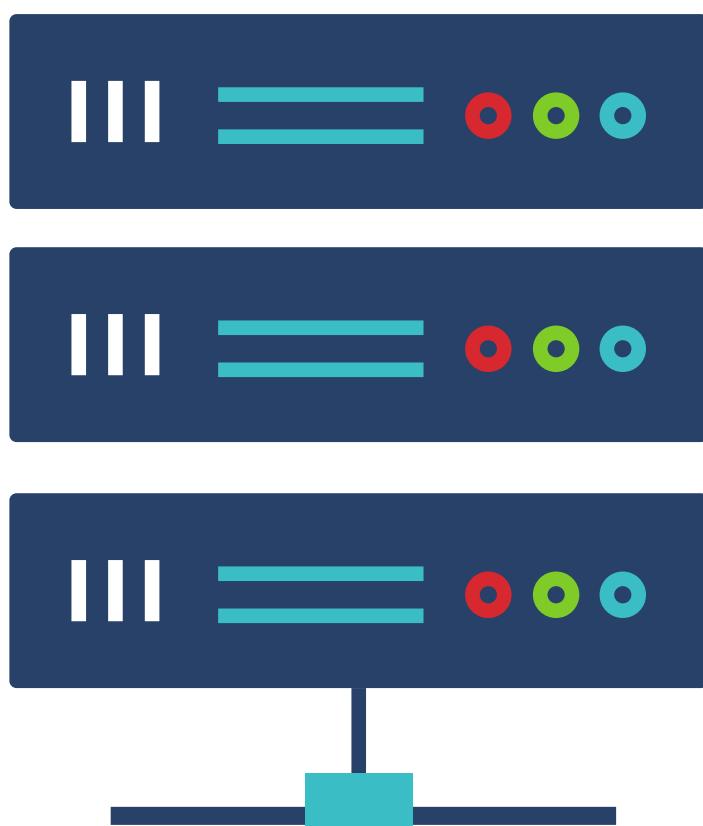
- Class A : **10.0.0.0 to 10.255.255.255**
- Class B: **172.16.0.0 to 172.31.255.255**
- Class C : **192.168.0.0 to 192.168.255.255**



# SERVER TYPES



**WEB SERVER**



**APP SERVER**



**DB SERVER**

# STEP-1 CREATE A VPC



# STEP-2 CREATE A PUBLIC SUBNET

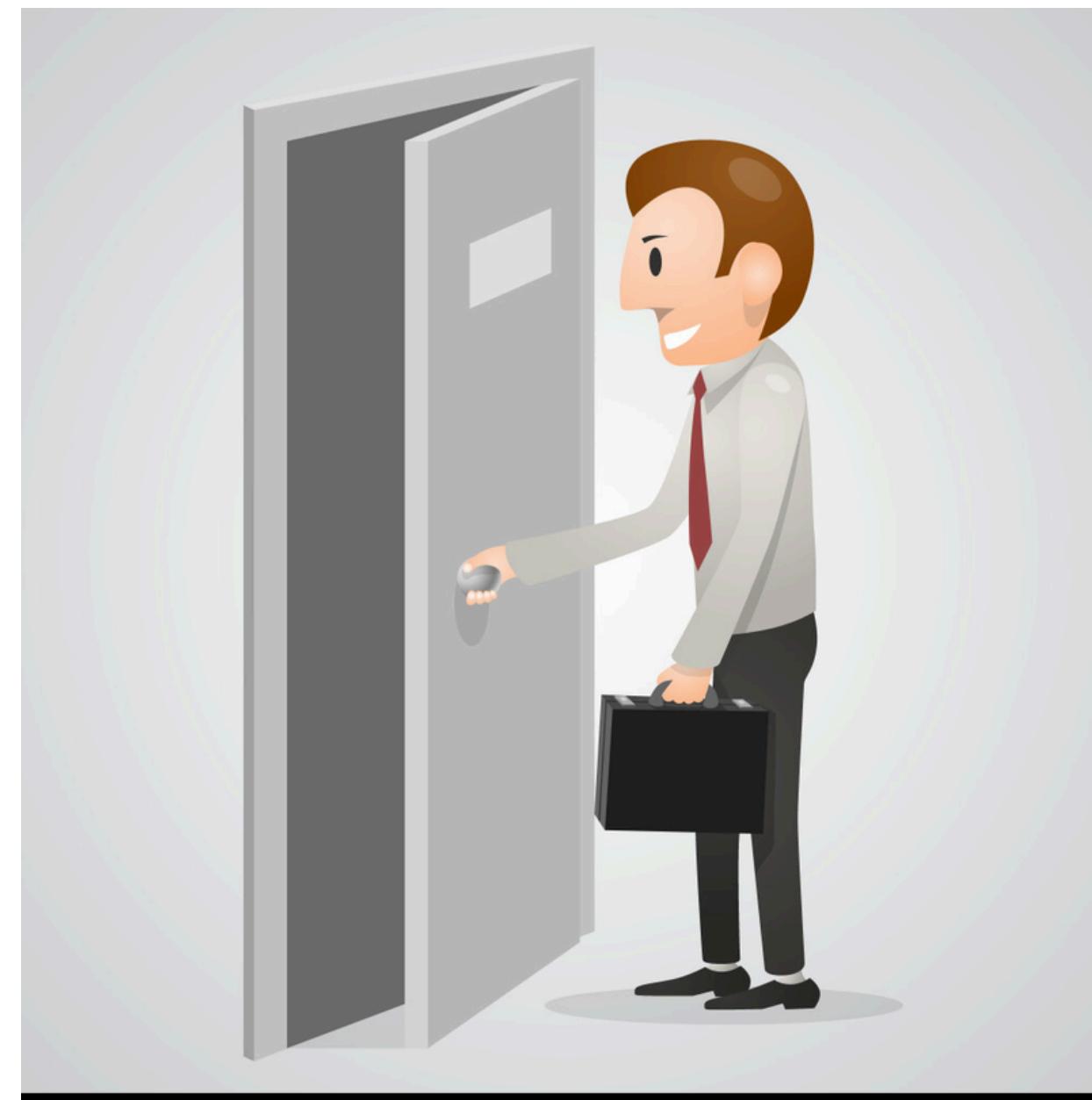


# STEP-3 CREATE A INTERNET GATEWAY



**STEP-4**

**CREATE A ROUTE TABLE**



**STEP-5**

# **CREATE A WEB SERVER**



# **WHAT ABOUT PRIVATE SERVER**

# STEP-6 CREATE A PRIVATE SUBNET



**STEP-7**

# **CREATE A NAT GATEWAY**



**STEP-8**

**CREATE A ROUTE TABLE**



**STEP-9**

# **CREATE APP SERVER**



