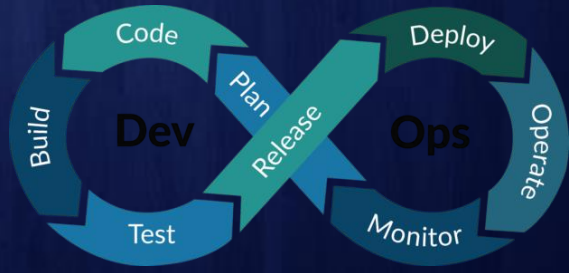
AWS SAA + SysOps + Developer + DevOps Course #Day-6

We will start at 8 AM,
Stay tuned



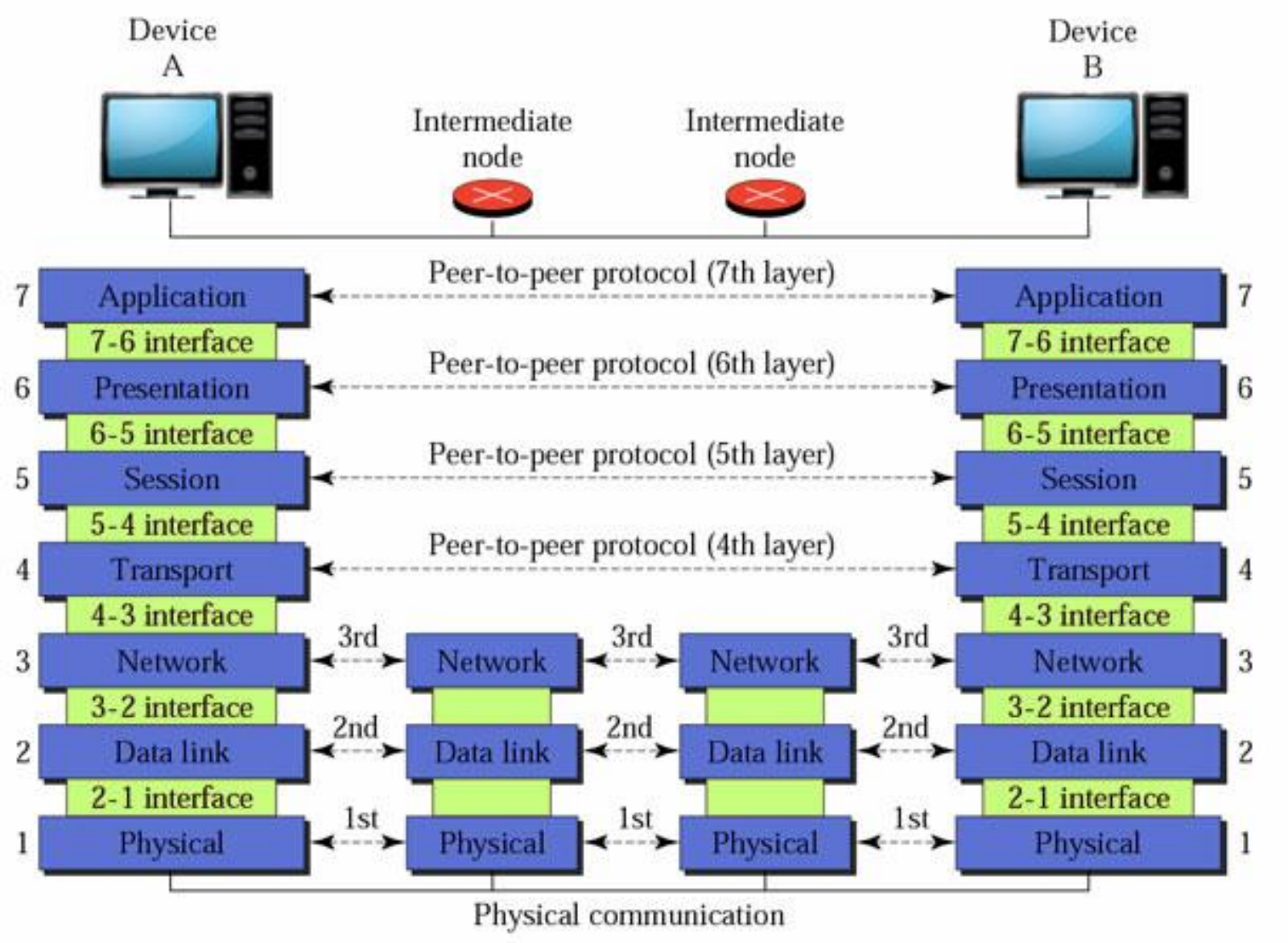
RAKESH TANINKI
LEARN TO UNLEARN

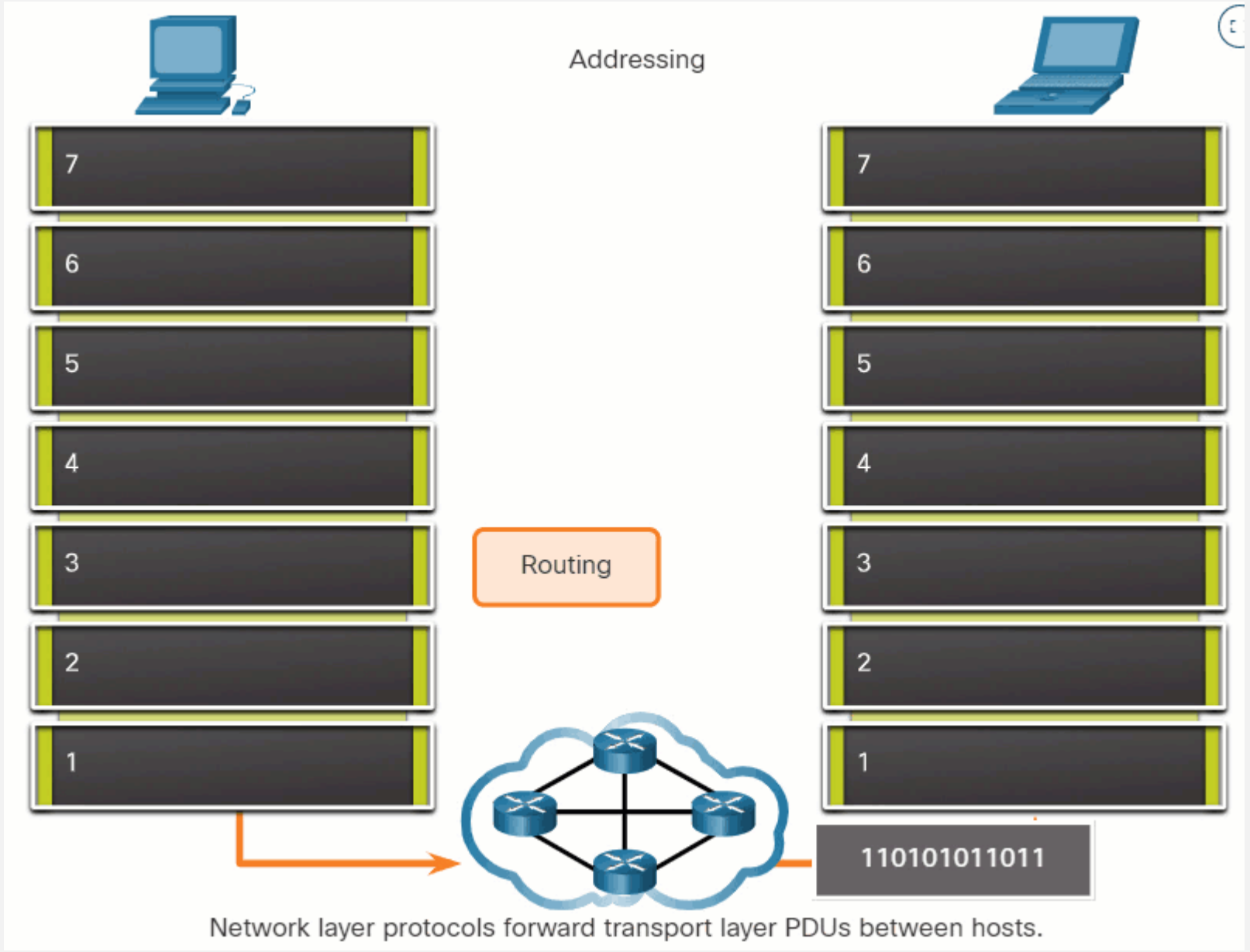
Recap:

- Different ways to connect to AWS
- IAM – Basics
- IAM Users
- IAM Roles
- IAM Groups
- IAM Policies
- Hands on – IAM
- Access keys
- Hands on – AWS CLI

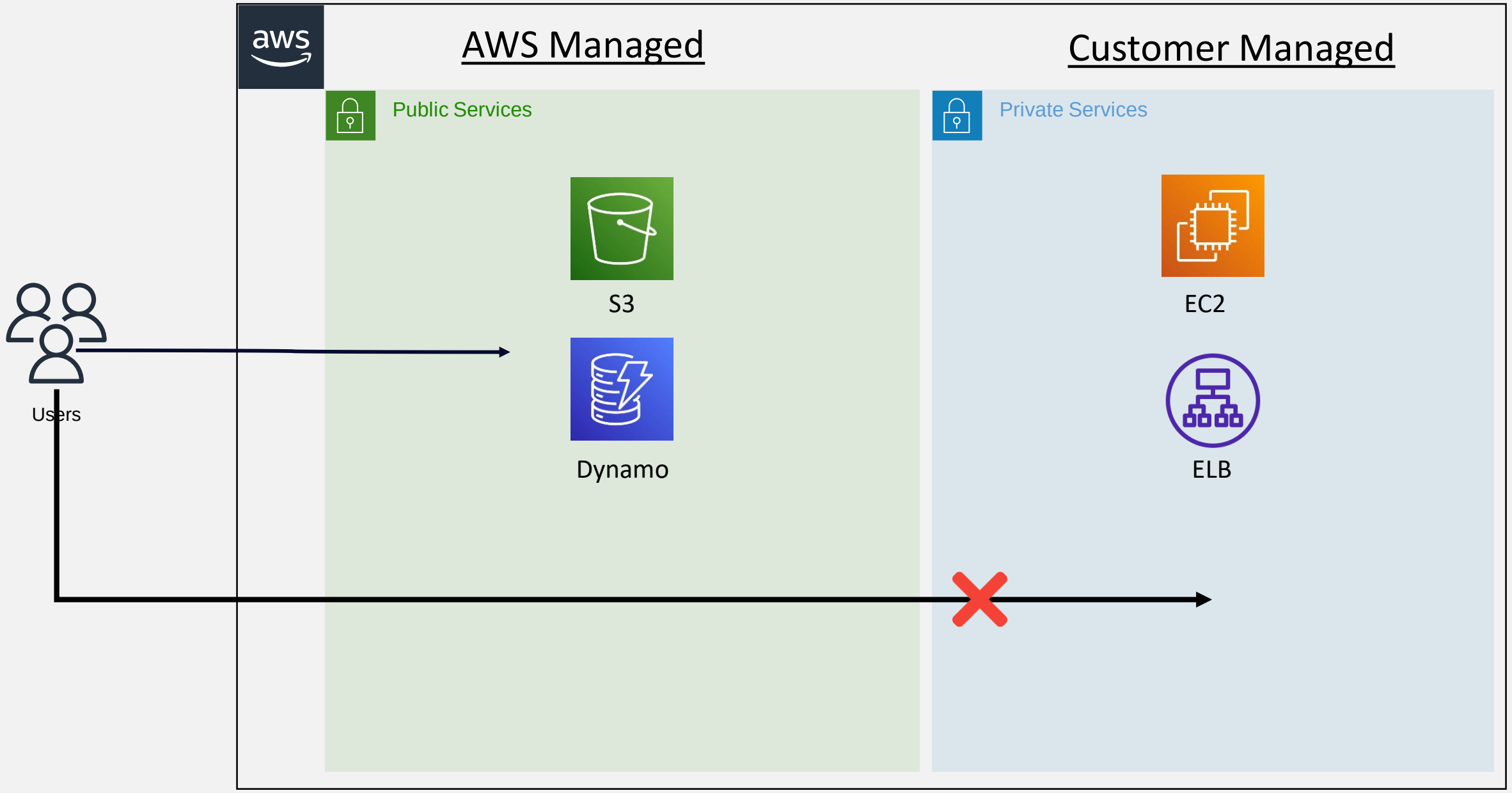
Today's topics:

- **OSI model - overview**
- Types of AWS Services (in terms of accessibility)
- **VPC basics** (with example)
- **3 Tier Architecture**
- **2 Tier Architecture**
- **Default VPC**
- **Hands on – Default VPC**

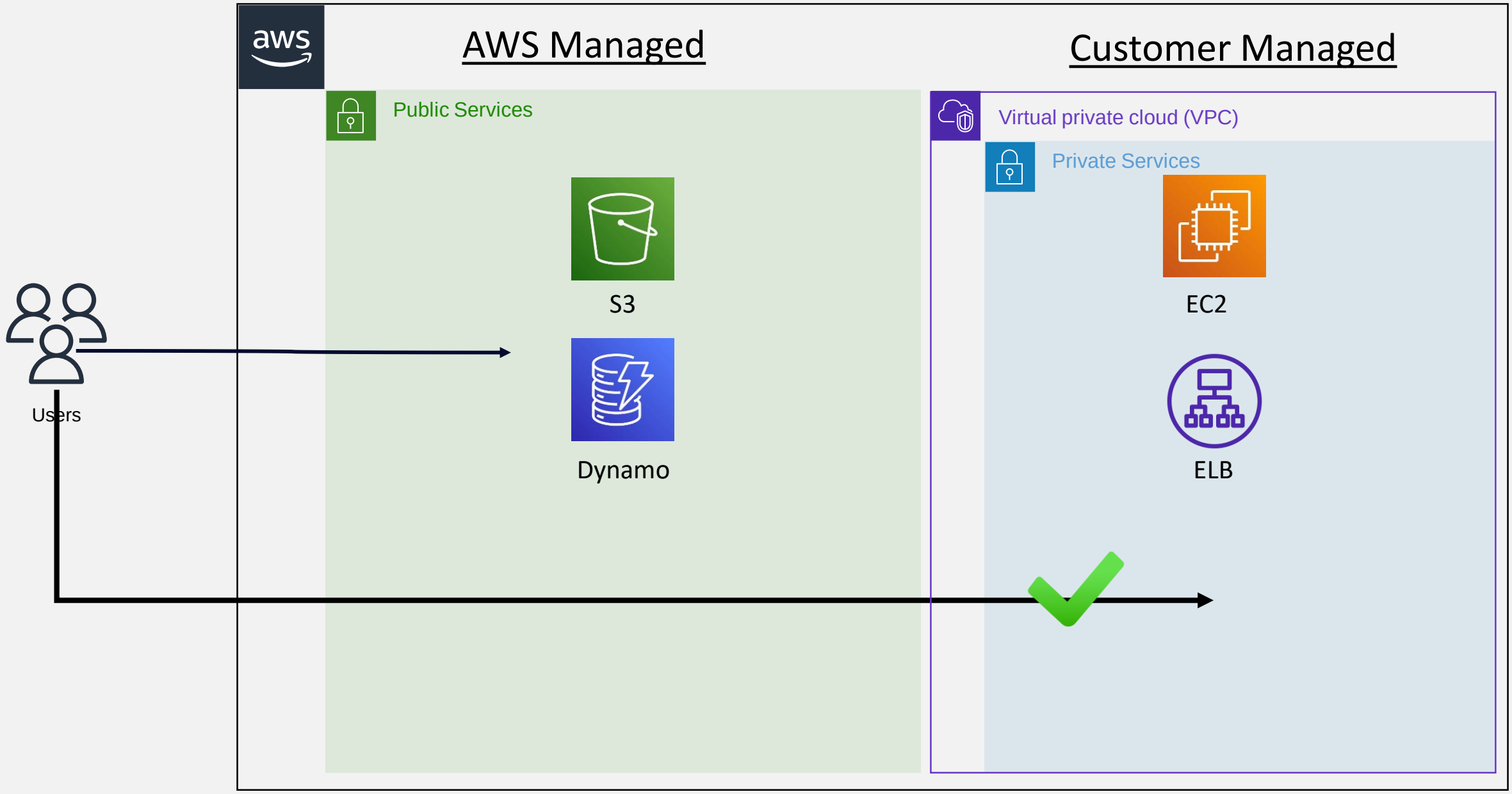




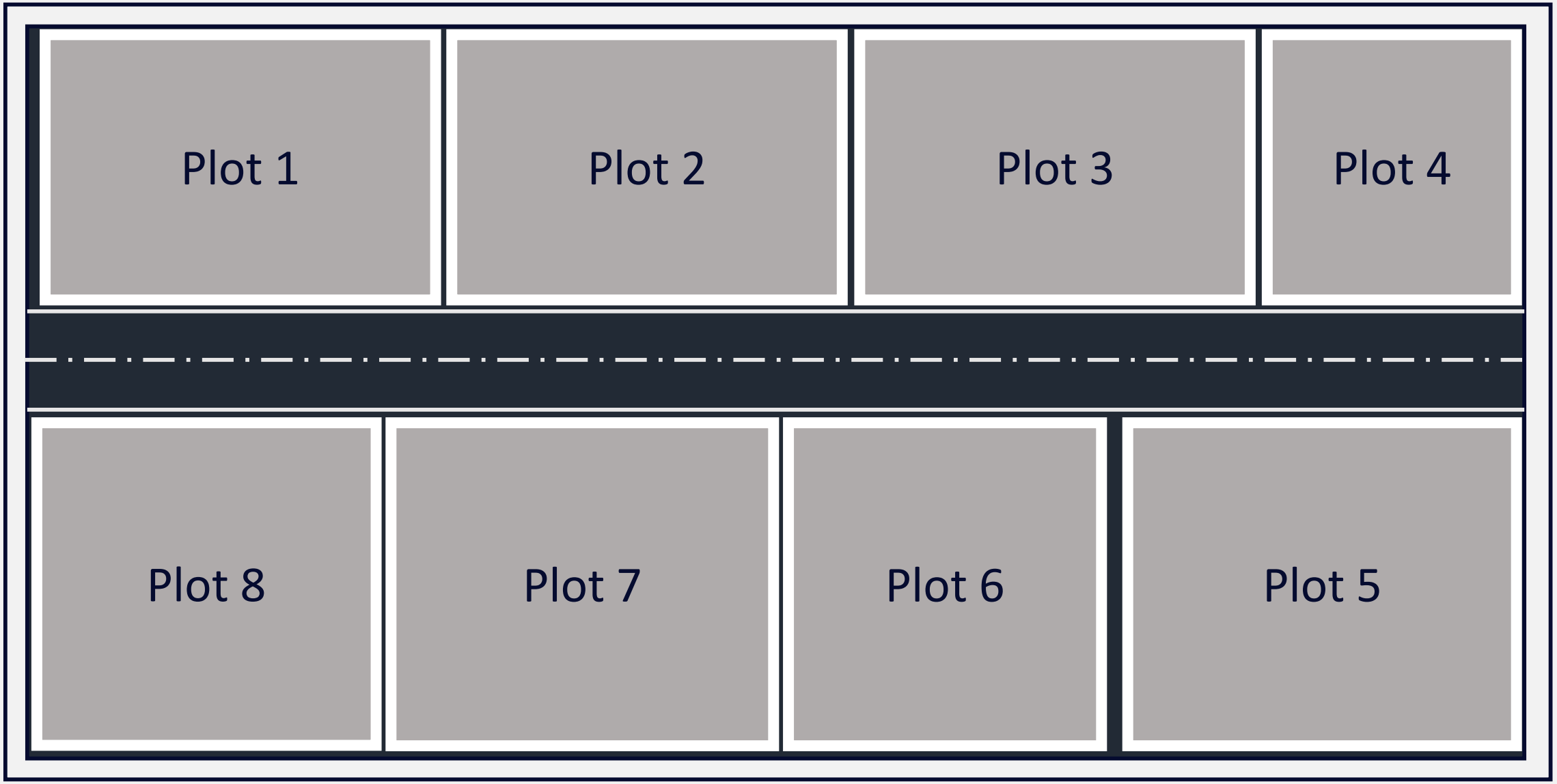
Types of AWS Services (in terms of accessibility)



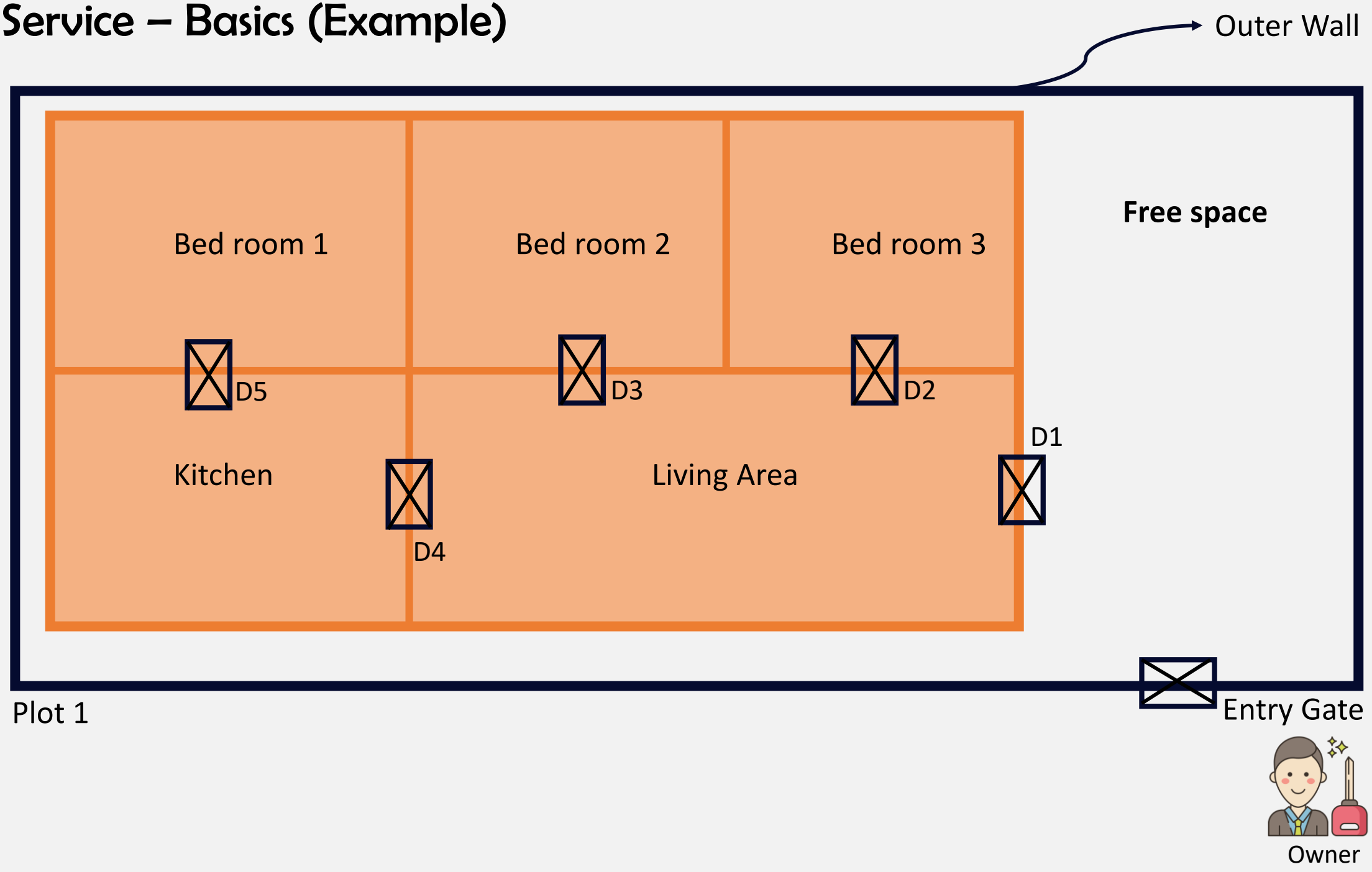
Types of AWS Services (in terms of accessibility)



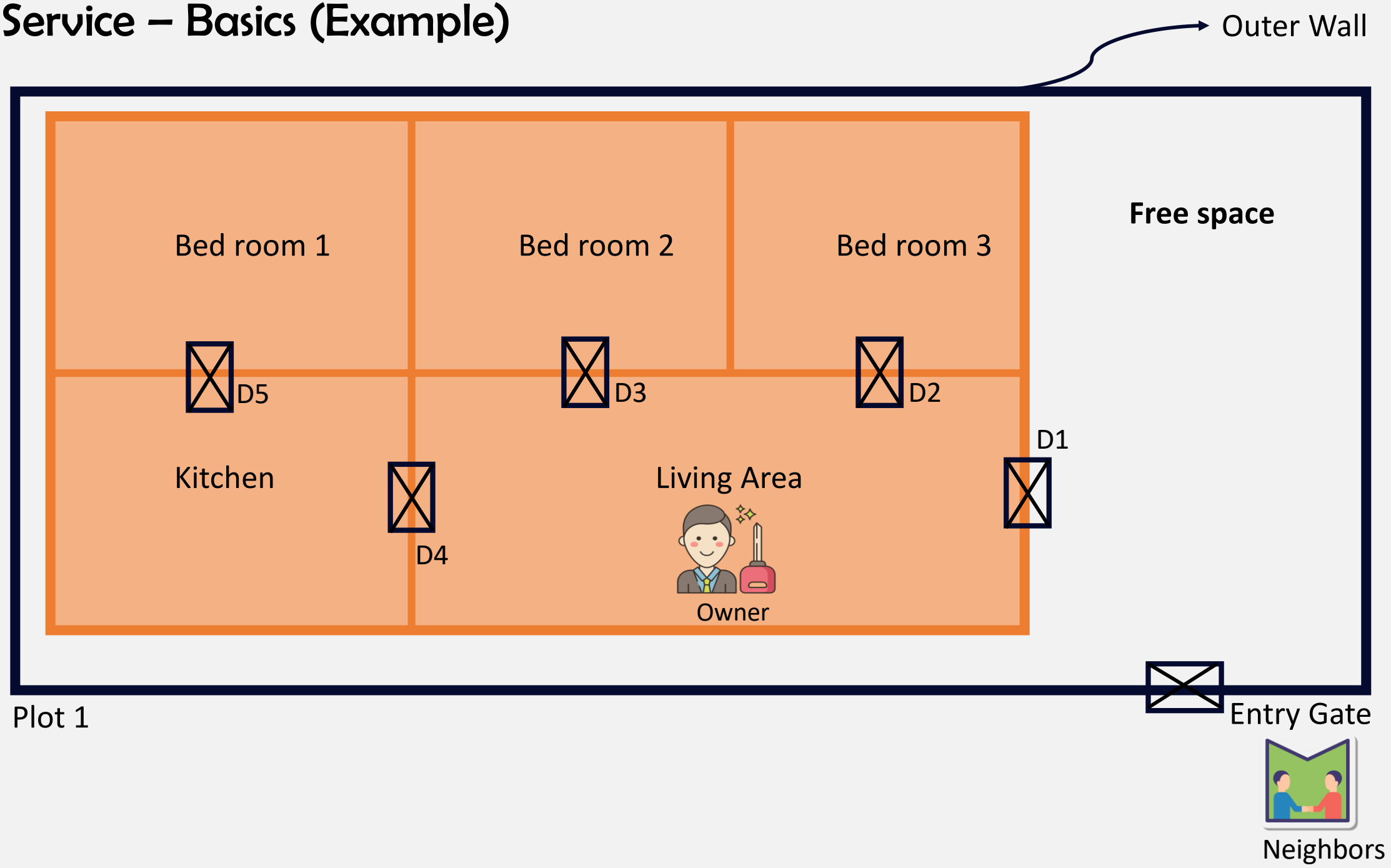
VPC Service – Basics (Example)



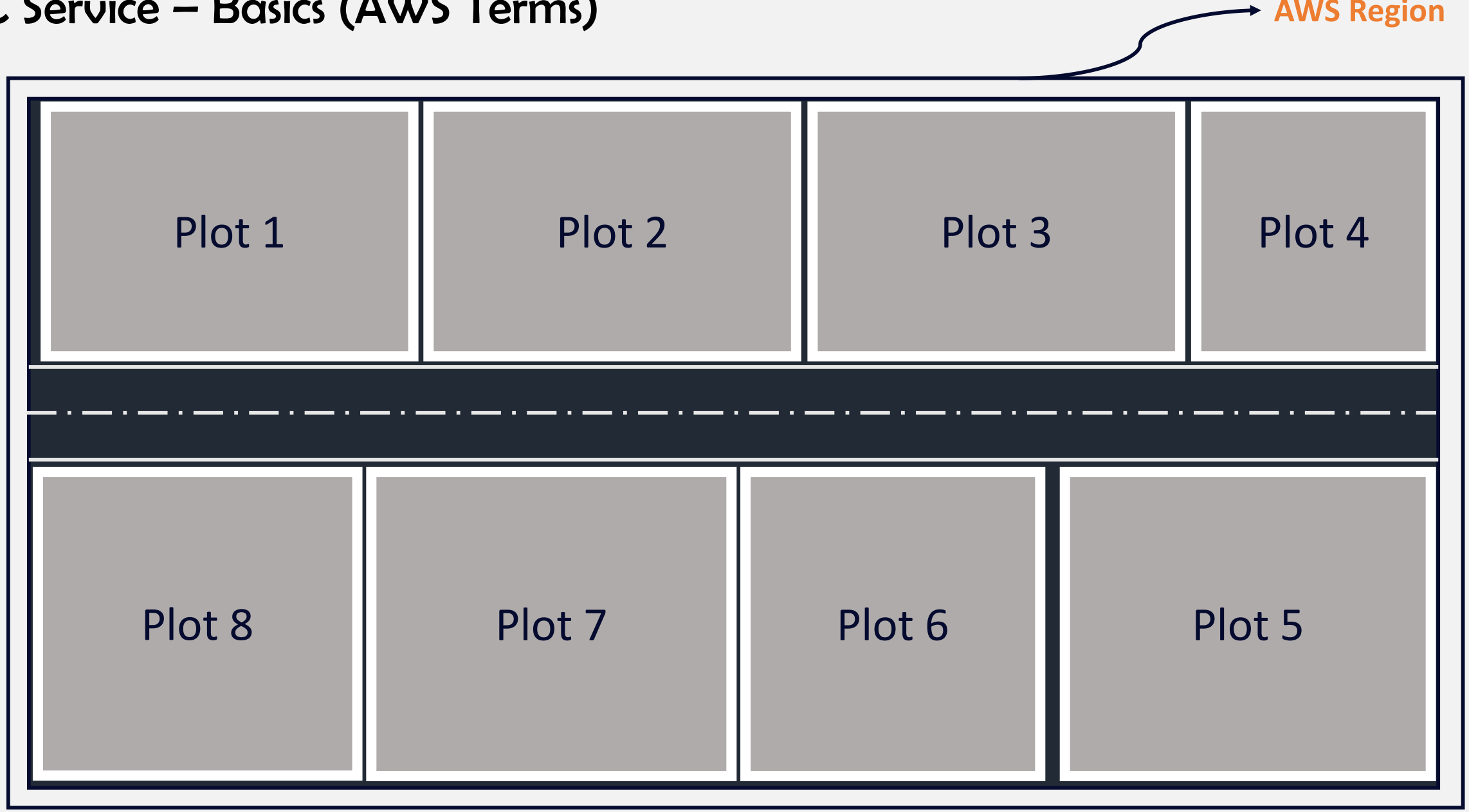
VPC Service – Basics (Example)



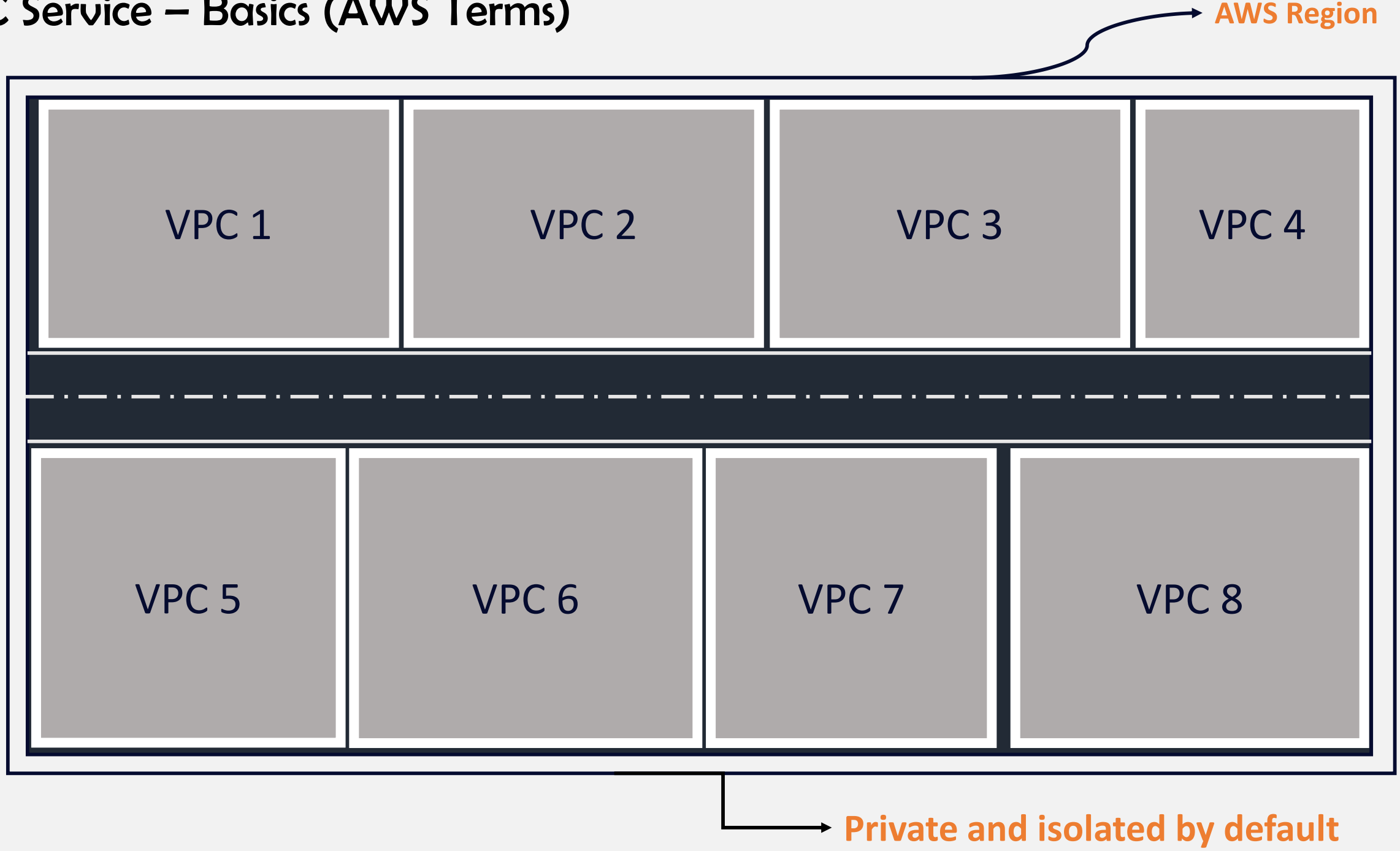
VPC Service – Basics (Example)



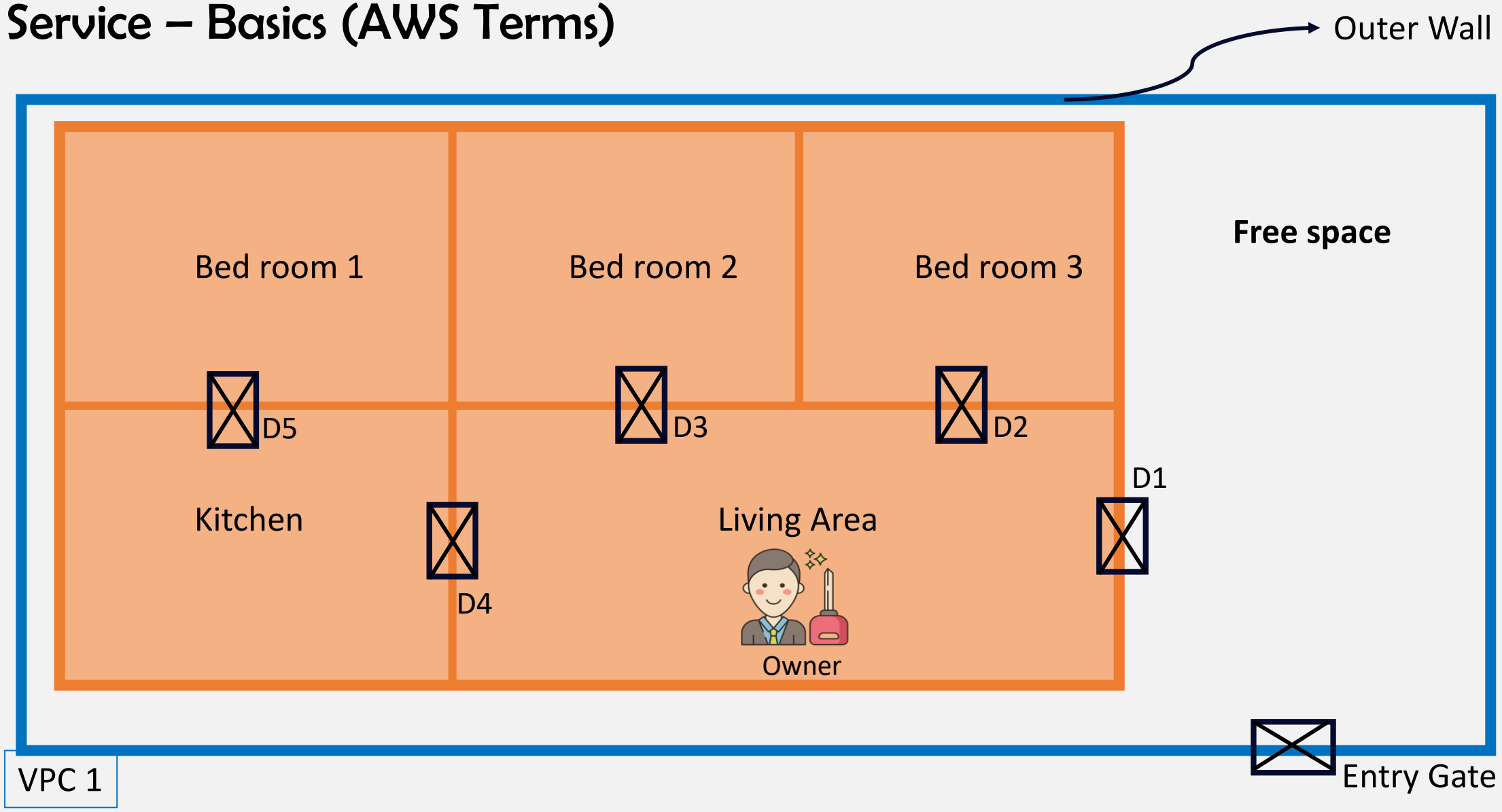
VPC Service – Basics (AWS Terms)



VPC Service – Basics (AWS Terms)

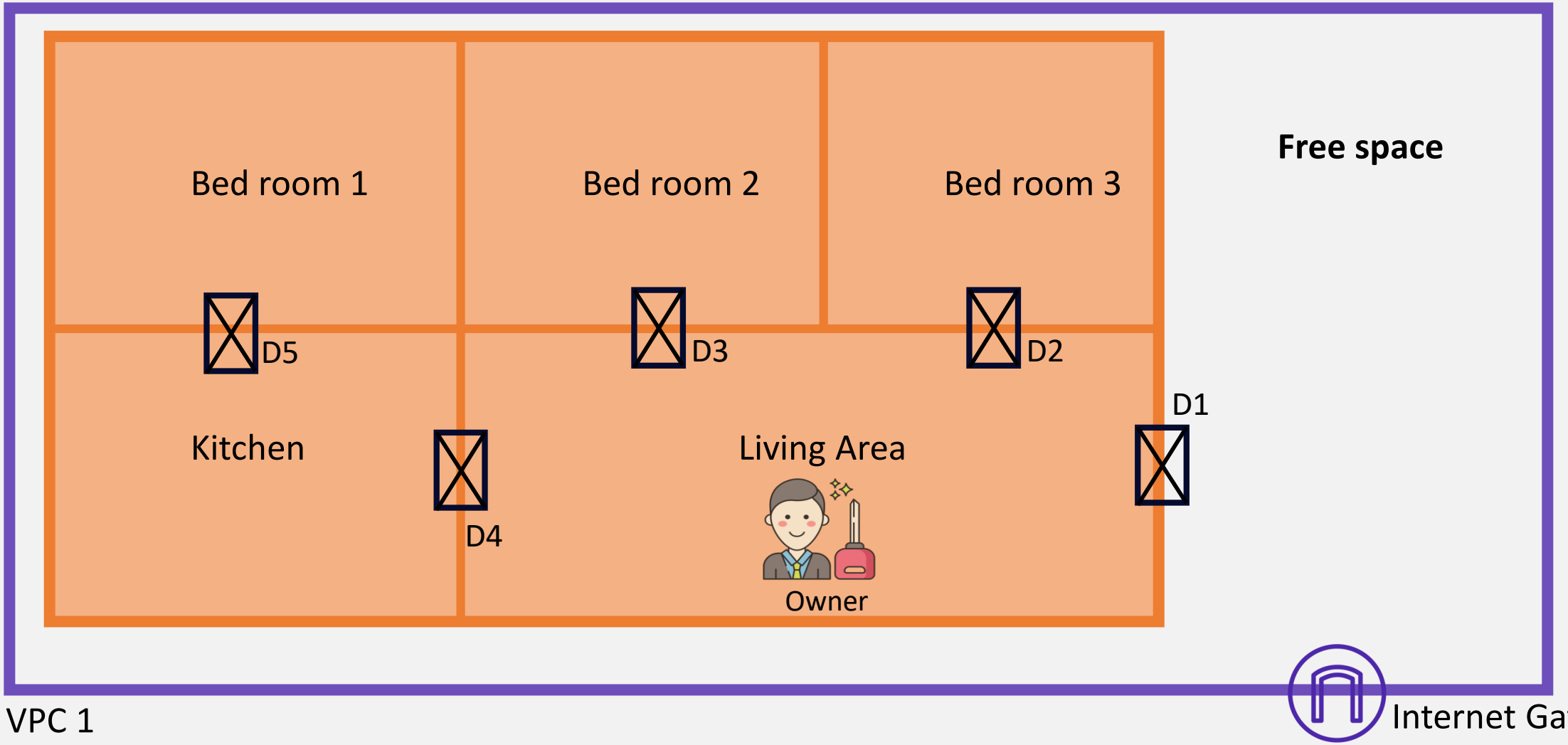


VPC Service – Basics (AWS Terms)

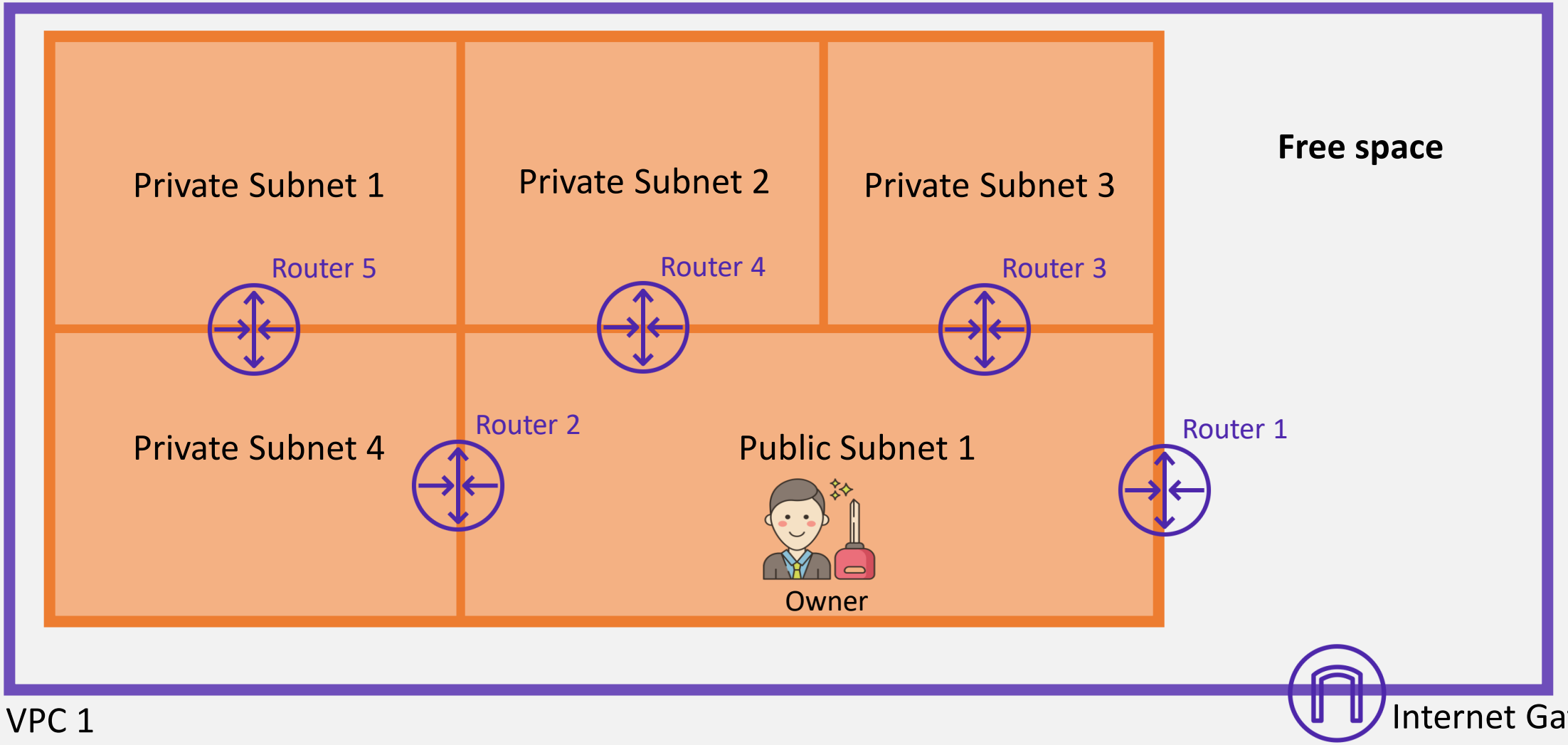


Neighbors

VPC Service – Basics (AWS Terms)

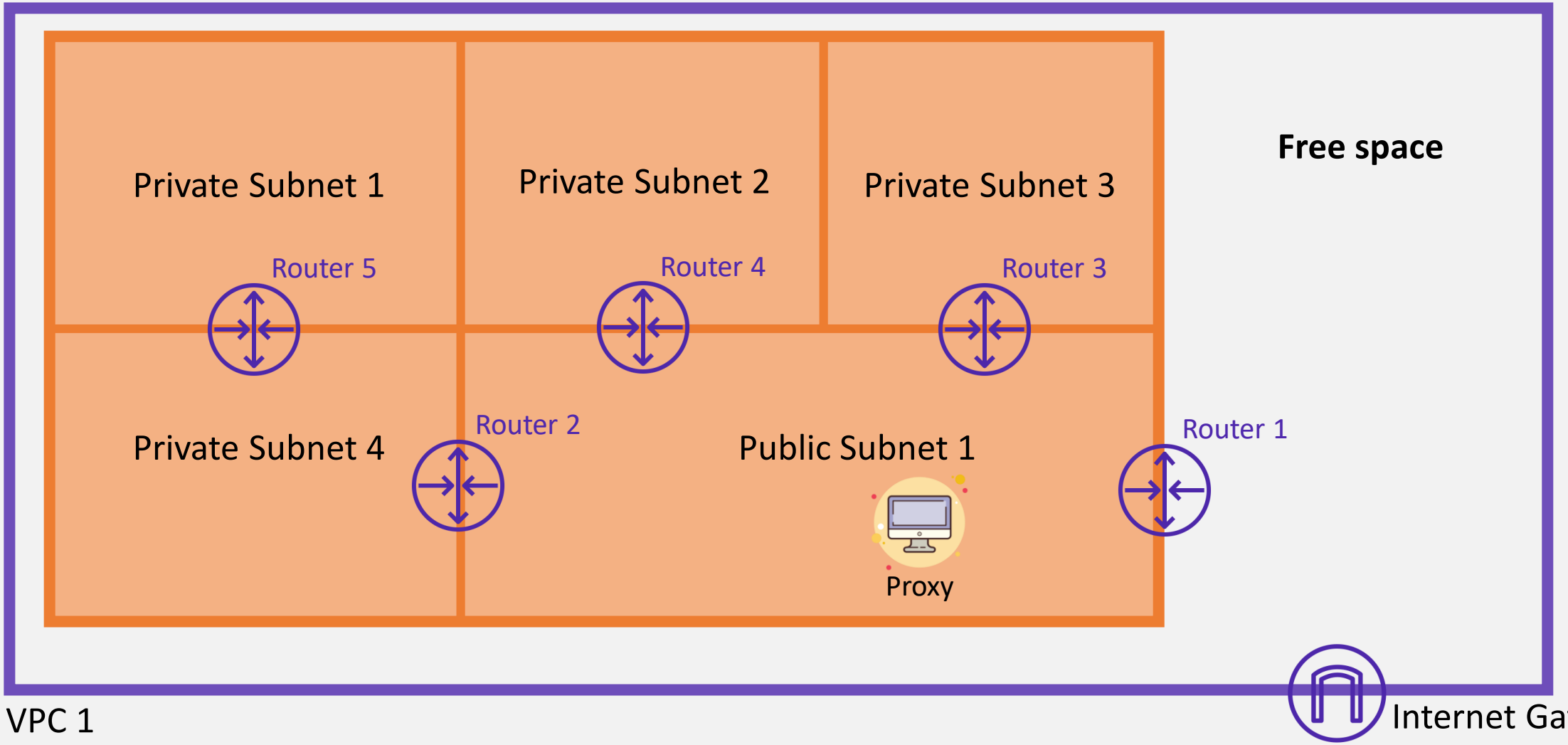


VPC Service – Basics (AWS Terms)



Neighbors

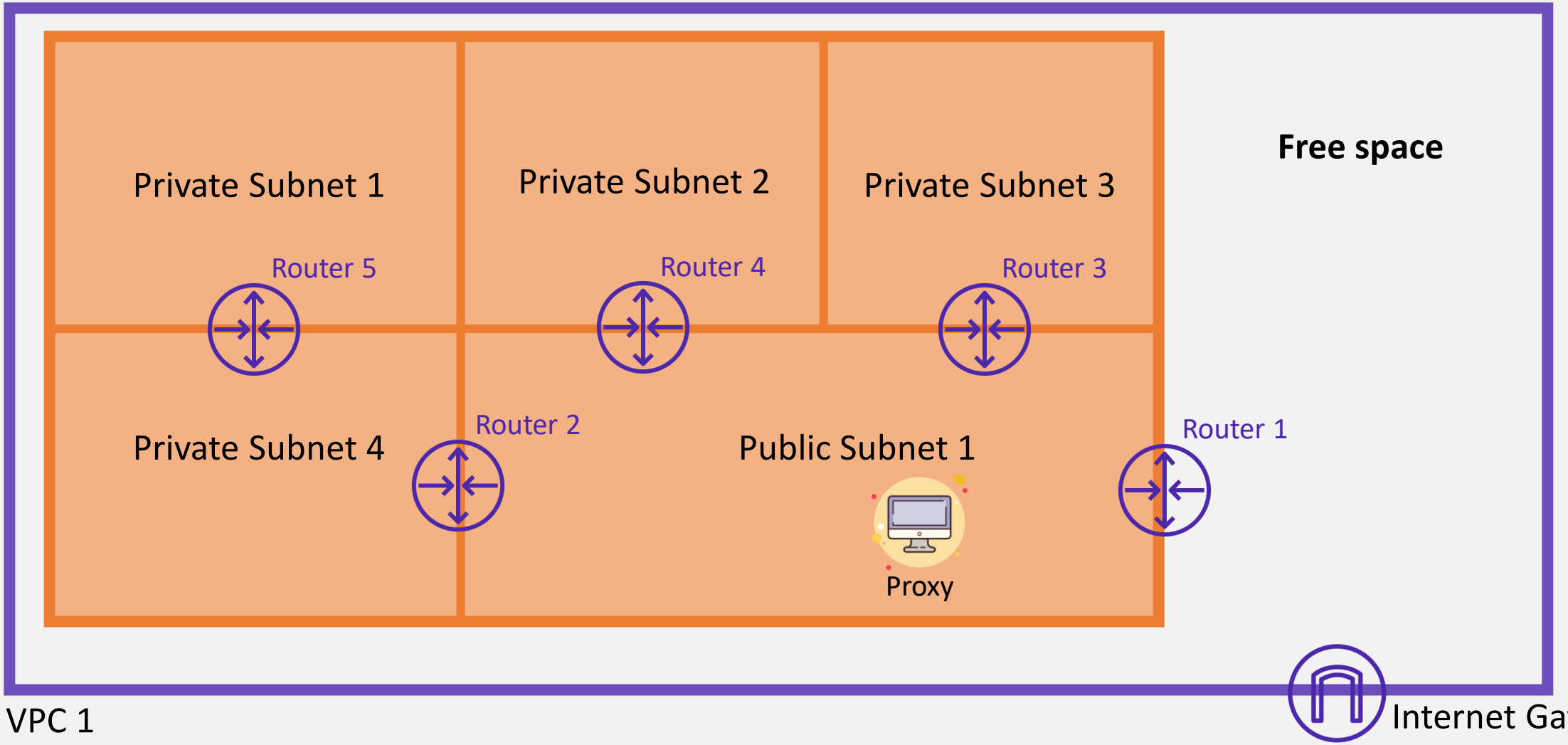
VPC Service – Basics (AWS Terms)



Proxy ➔ Bastion host / Jump box for administrators

Neighbors

VPC Service – Basics (Example)

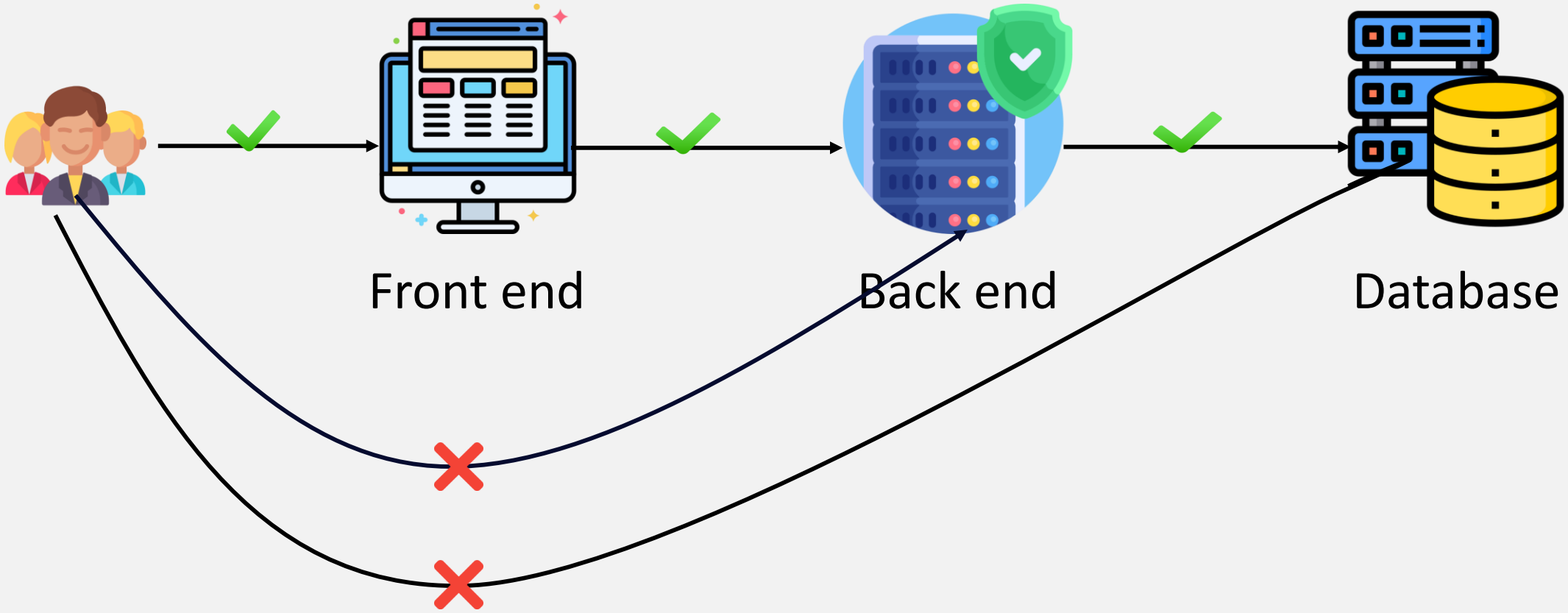


Proxy ➔ Bastion host / Jump box for administrators

Neighbors

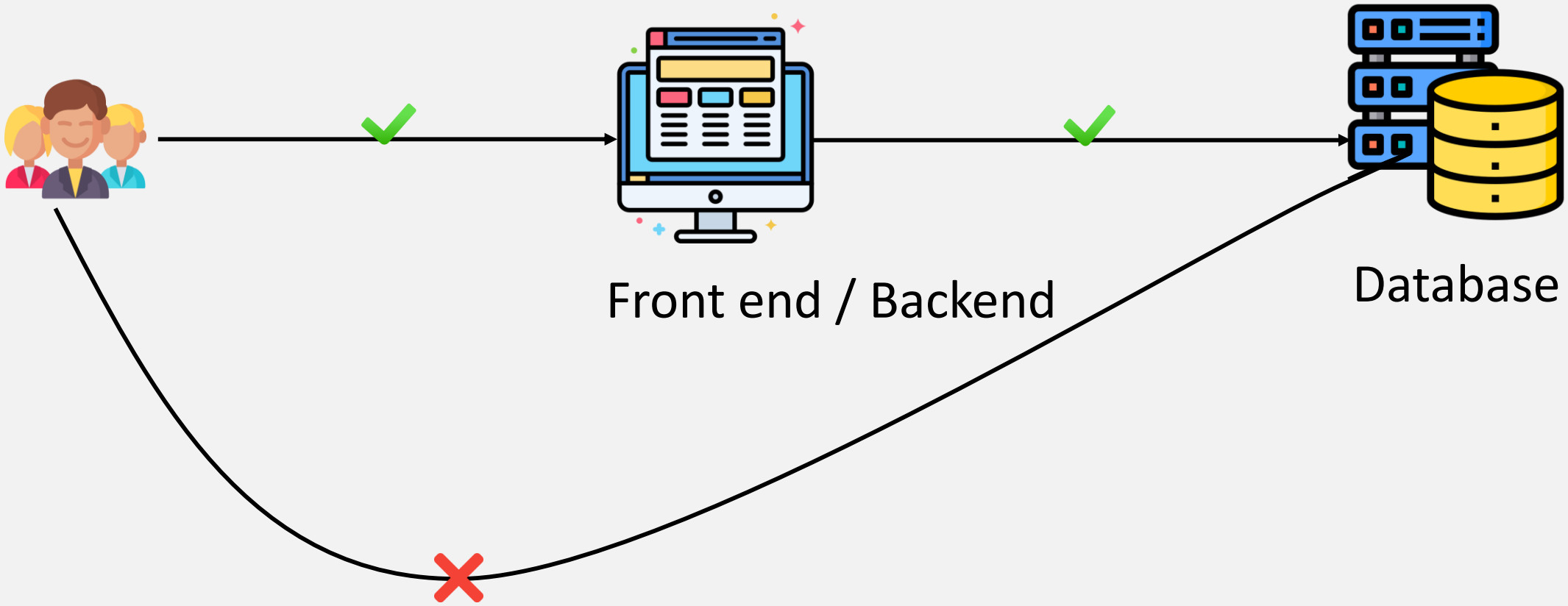
3 Tier architecture

1. Front End
2. Backend / Middleware
3. Database

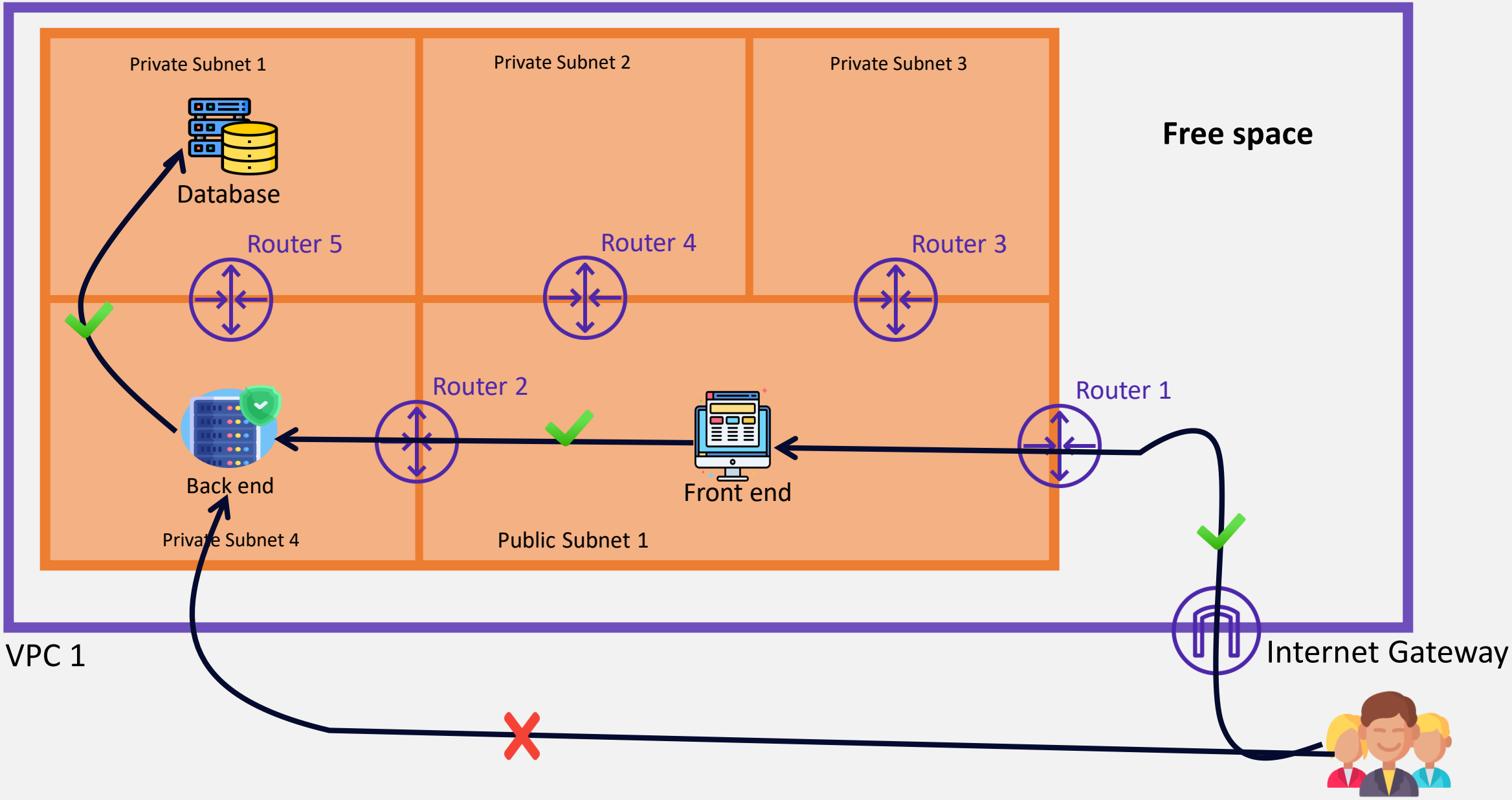


2 Tier architecture

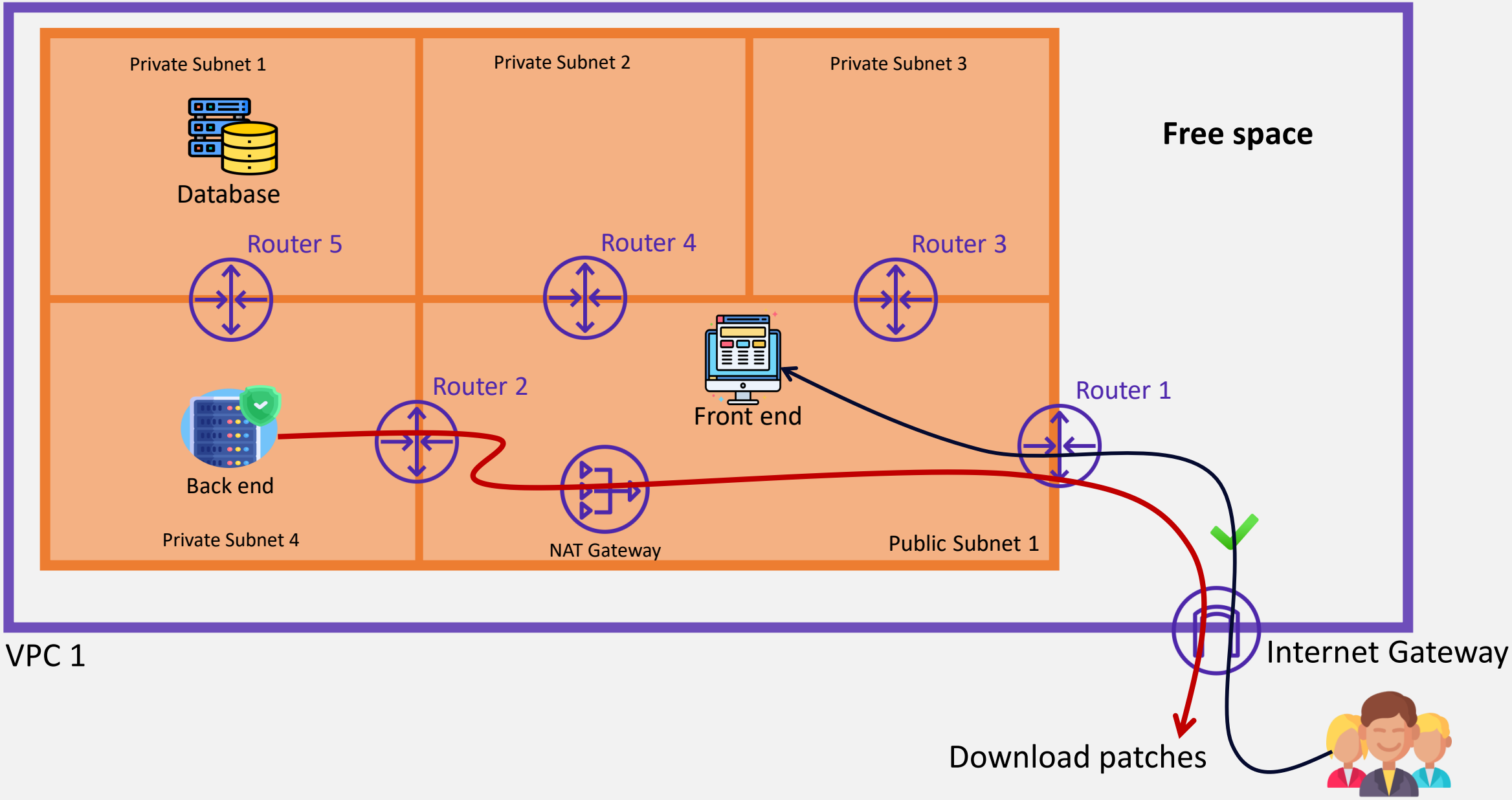
1. Front End / Backend
2. Database



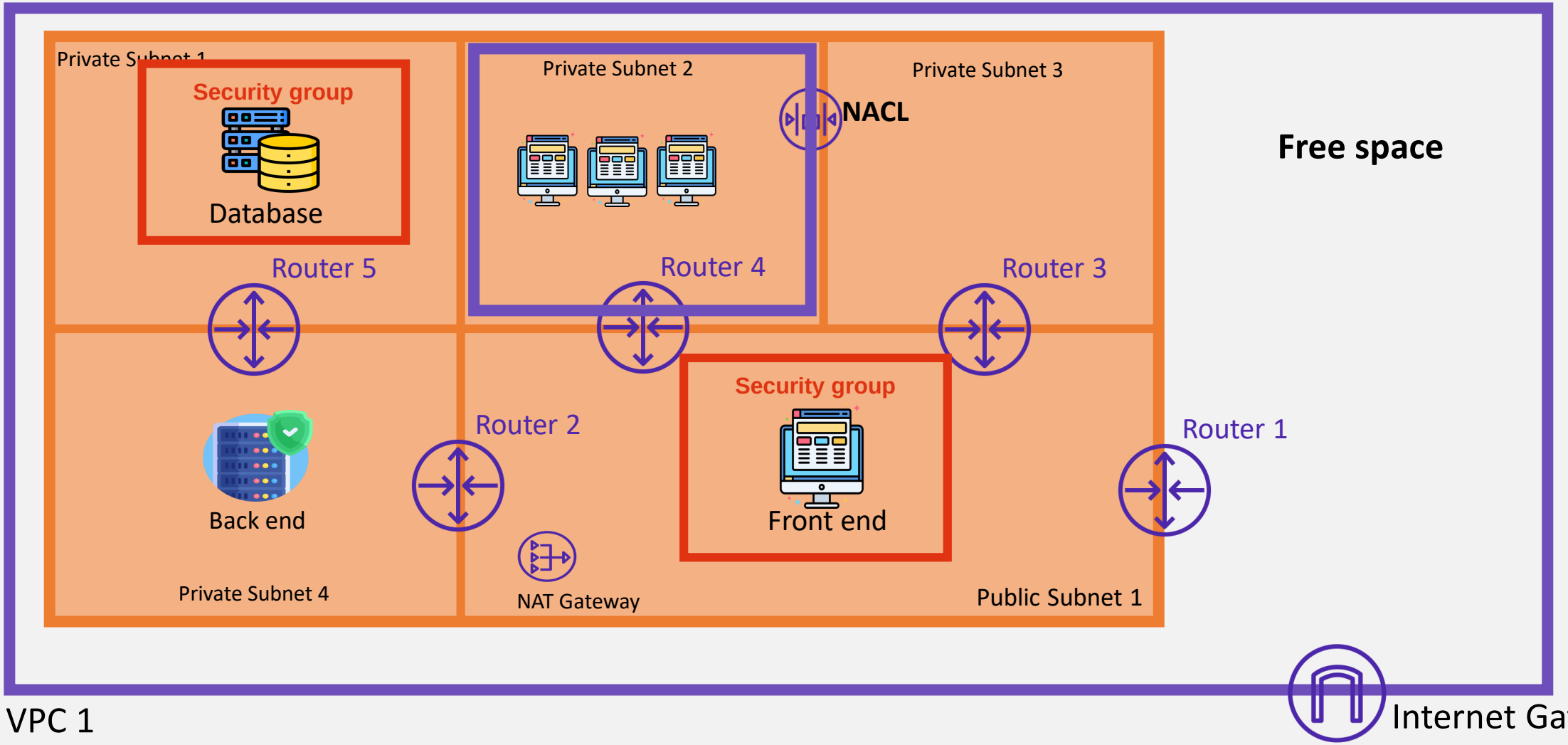
VPC Service – Basics (3 tier architecture)



VPC Service – Basics (NAT gateway)



VPC Service – Basics (Basic Firewalls)



VPC Service – Basics (components)

- VPC – Virtual Private Cloud
  - Region specific
- Subnets
  - AZ specific
  - Private / Public
- Internet Gateway
  - VPC specific – 1 / VPC
  - Two way – ingress / egress
- Routers – Route tables
  - Subnet specific

VPC Service – Basics (components)

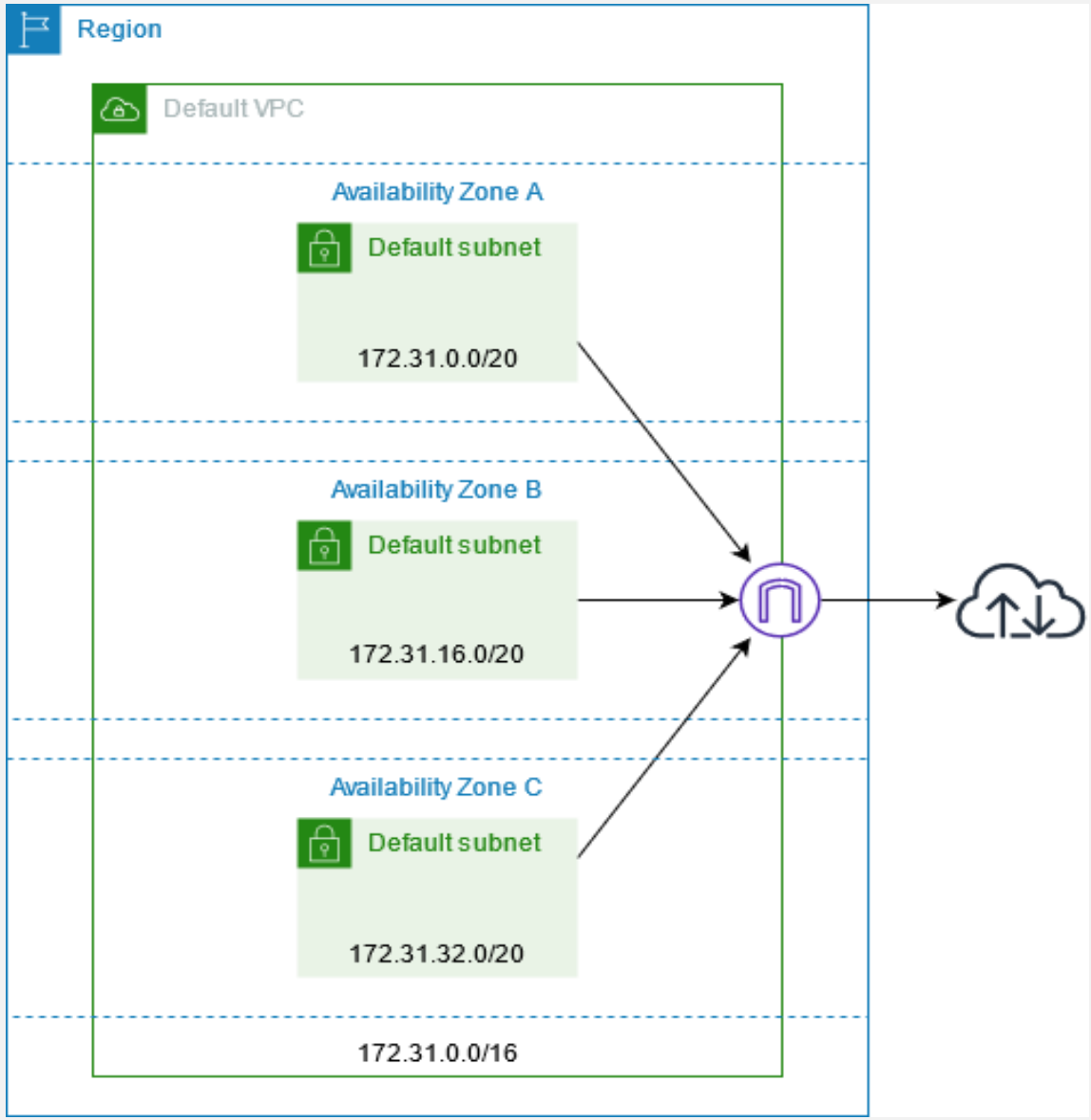
- NAT gateway
  - VPC specific
  - Can be more than 1
  - One way traffic – egress only
- Bastion hosts / Jump box
- Security Groups
  - Server specific
- NACLs – Subnet specific

VPC Service

- Two types of VPC
  - Default VPC
    - One per region
    - All network components setup by AWS
    - By default all the subnets are public
  - Custom VPC
    - Can be more than one per region
    - Customer must create and manage all the components setup

VPC Default Demo

- Review Default VPC
- Delete Default VPC
- Create Default VPC



Default VPC best practices

- For production accounts, delete the default VPC
- Do not use for the production workloads

Thank you, will meet in tomorrow's session