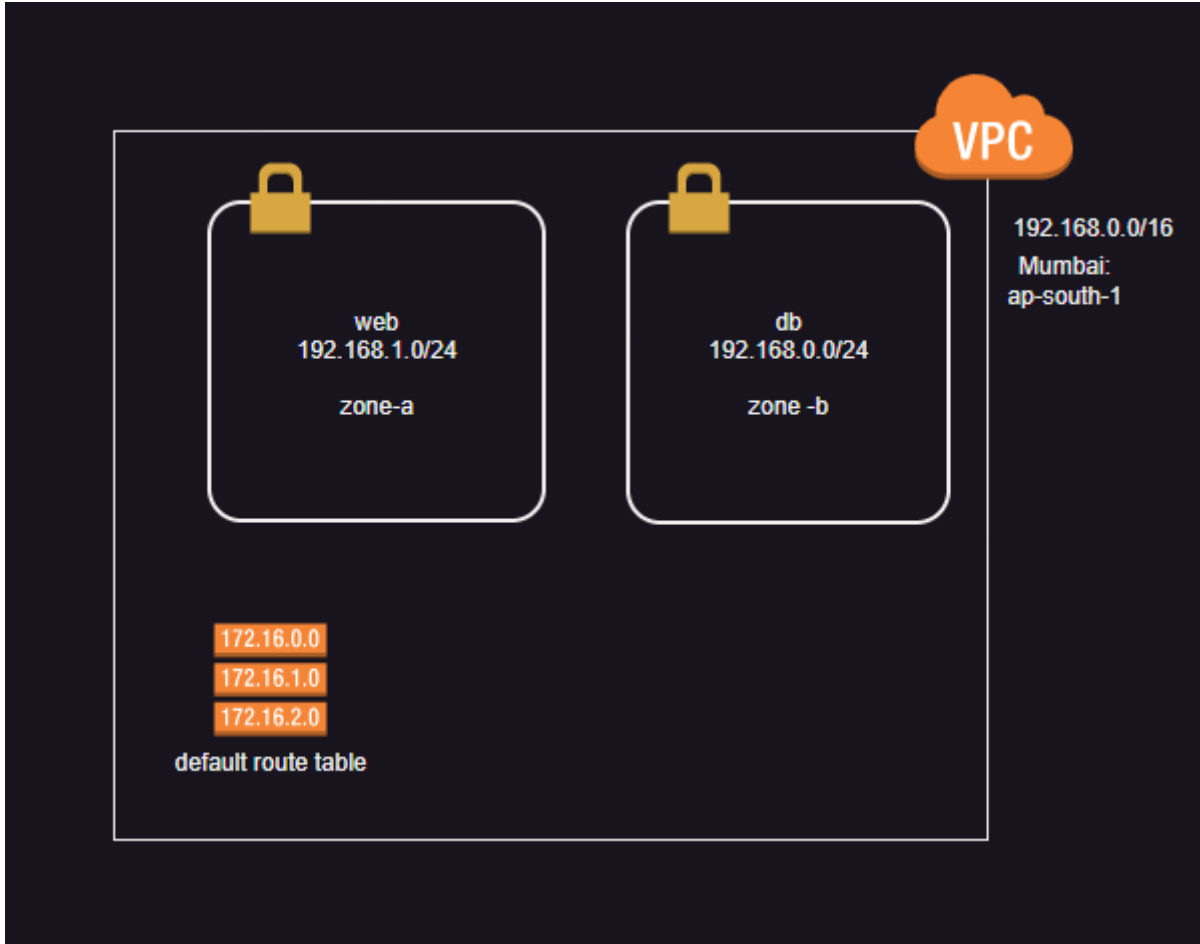


AWS Networking

- Lets create a vpc (192.168.0.0/16)
- Every AWS Region has a default vpc
- Every vpc has a default route table
- Lets create two subnets as shown below

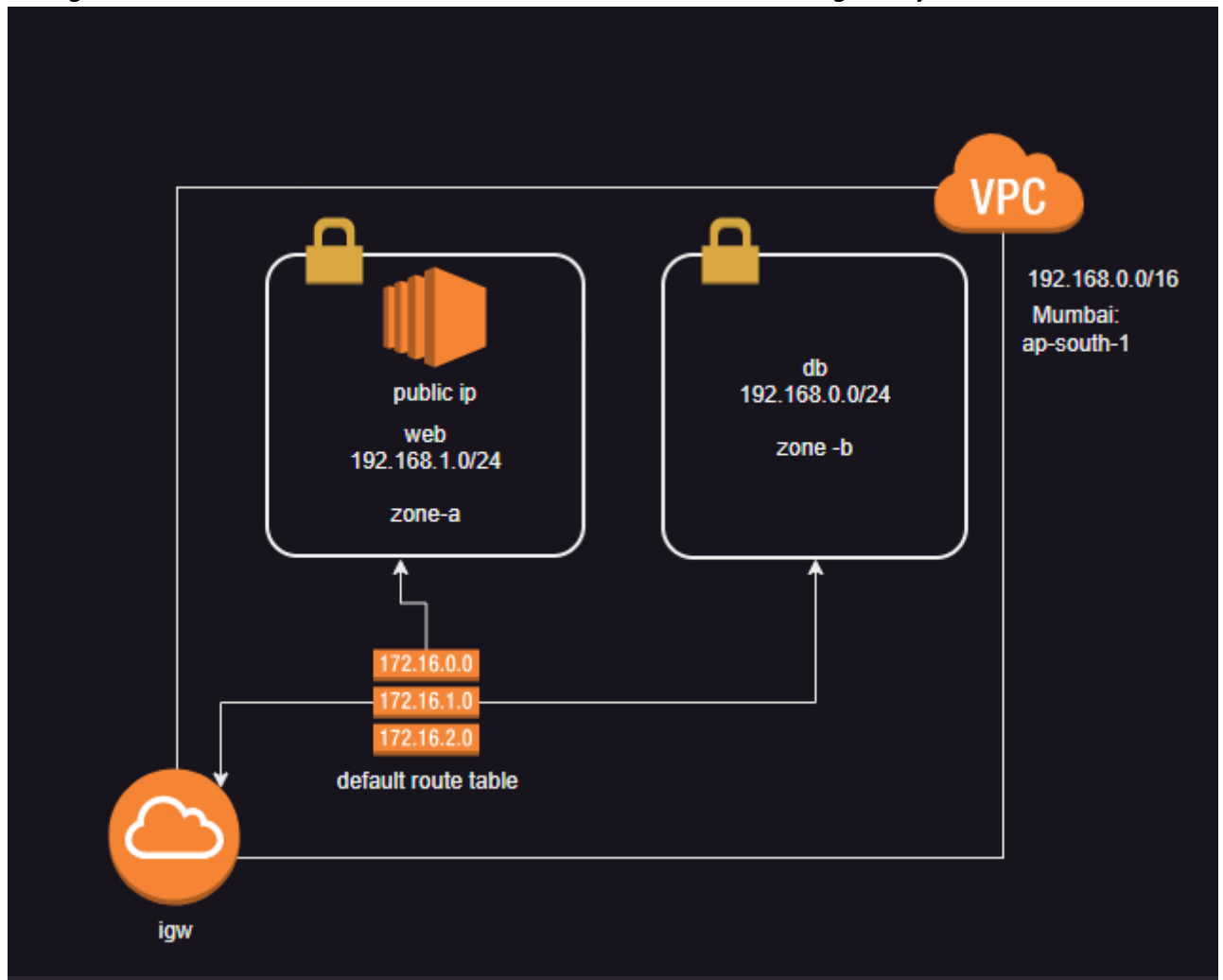


Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR
hello-vpc	vpc-049e7388627fafb9f	Available	192.168.0.0/16	-

Resource map

- VPC: hello-vpc
- Subnets (2): ap-south-1a
- Route tables (1): Default Route table

- Create a security group with every thing opened
- Lets create an ec2 instance with public ip in web subnet
- try connecting and it will not work as our vpc doesnot have internet gateway
- Now create an internet gateway attach to the vpc
- Change the default route table routes to forward the traffic to internet gateway (0.0.0.0/0)



- Lets create a new route table and call it as public route table
 - It will have route to internet gateway
- Lets create a new route table and call it as private route table
 - It will not have a route to internet gateway
- Lets associate web subnet to public route table

Rules

- Routers and firewalls or other network devices use cidr range to filter and express ips allowed or disallowed. In this only network id is considered
 - 192.168.0.0/16 => 192.168.x.x => any ip from 192.168.0.0 to 192.168.255.255
 - 192.168.0.11/32 => 192.168.0.11

◦ 0.0.0.0/0 => x.x.x.x => 0.0.0.0 to 255.255.255.255

- Note: Refer classroom video for screen shots