

## **AWS NETWORKING COMPONENTS**

### **VPC**

It is an isolated and secure network within the AWS network which consist of a range of ip addresses that determines its size.

### **SUBNETS**

It is used to create isolated networks within a VPC to enable security and isolation.

### **INTERNET GATEWAY**

This is the gateway for accessing the internet. It is attached to the public subnet, so that any resource in the public subnet can access the internet and be accessed from the internet.

### **NAT GATEWAY**

It helps the private subnet to communicate with the internet. It is used to mask the IP address of the private subnet when it is making an outbound traffic to the internet.

### **ROUTE TABLES**

It routes traffic between the Internet gateway and the subnets and defines how to route traffic within subnets.

### **SECURITY GROUPS**

It manages and control inbound and outbound traffic to and from the EC2 instances(using ports and addresses).

### **NETWORK ACLS**

It manages and control inbound and outbound traffic to and from the subnet. It is used to secure a subnet and it is applied at the subnet level.