



# Amazon Virtual Private Cloud (VPC)

A **VPC** is a logically isolated portion of the AWS cloud within a region



Region



VPC

Availability Zone



Public subnet



EC2 Instance

Availability Zone



Private subnet



EC2 Instance

You can launch **EC2 instances** into your VPC subnets

The **VPC router** takes care of routing within the VPC and outside of the VPC



Router



Internet gateway

An **Internet Gateway** is attached to a VPC and used to connect to the Internet

Main Route Table

Destination	Target
10.0.0.0/16	Local
0.0.0.0/0	igw-id

The **route table** is used to configure the VPC router

**Subnets** are created within **AZs**



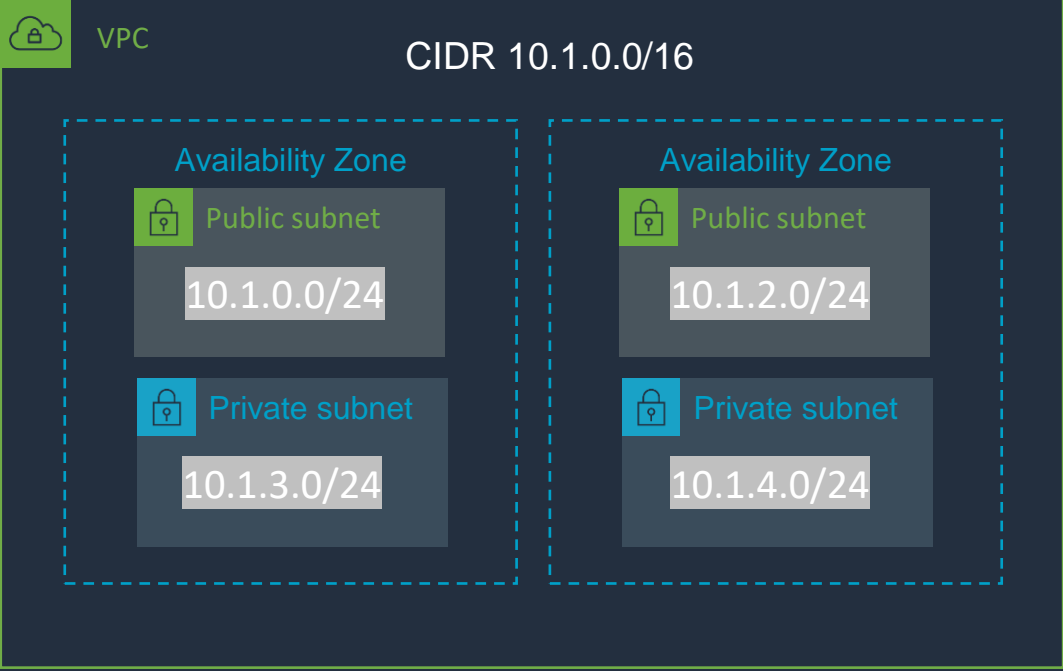
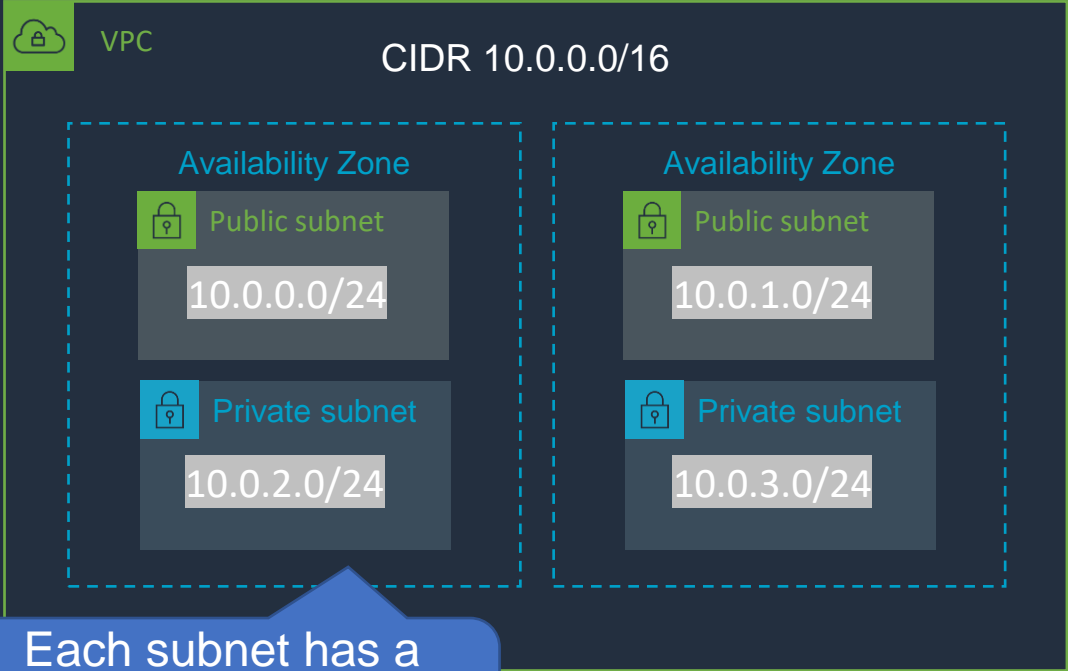
# Amazon VPC



Region

Each **VPC** has a different block of IP addresses

**CIDR** stands for Classless Interdomain Routing



Each subnet has a block of **IP addresses** from the CIDR block

You can create **multiple VPCs** within each region