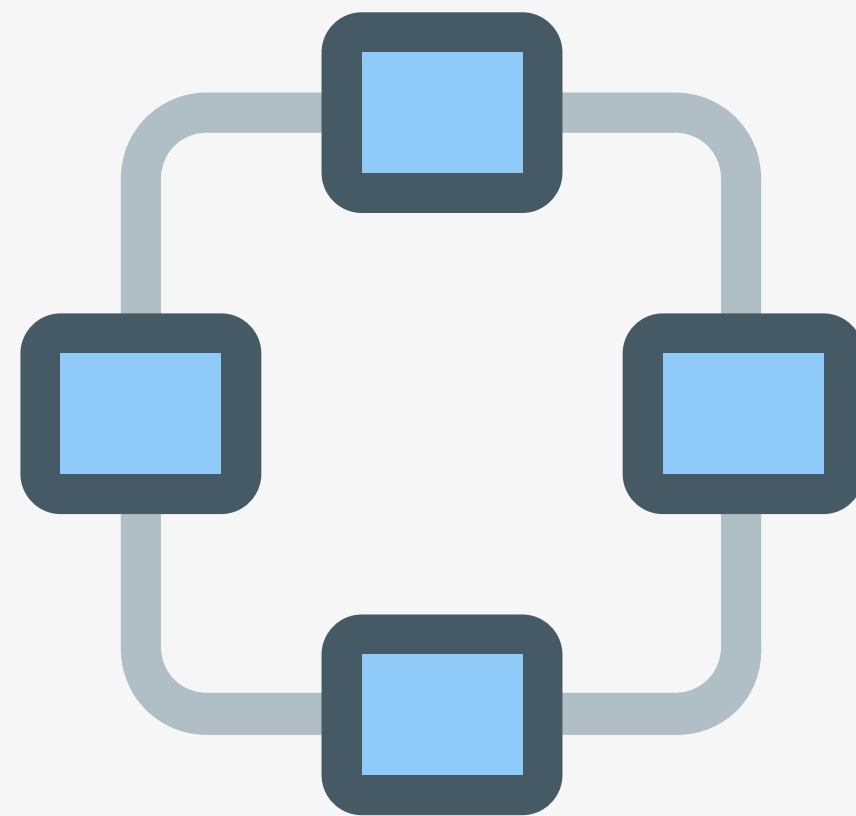
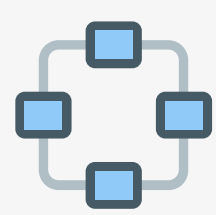


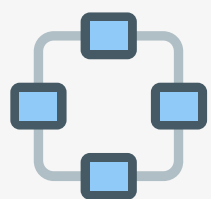
# Virtual Private Cloud

## (VPC) Basics





- A **VPC** = A Virtual Network inside AWS
- A VPC is within **1 account & 1 region**
- **Private** and **Isolated** unless you decide otherwise
- Two types - **Default VPC** and **Custom VPCs**



## AWS Account



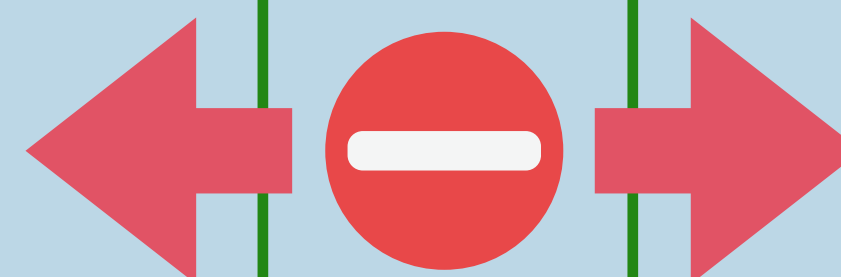
us-east-1

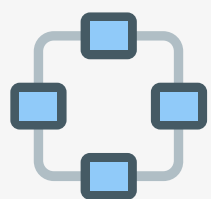


VPC-1



VPC-2





us-east-2

VPC CIDR **172.31.0.0/16**



Default VPC



SN-A

172.31.0.0/20

Start 172.31.0.0  
End 172.31.15.255



SN-B

172.31.16.0/20

Start 172.31.16.0  
End 172.31.31.255



SN-C

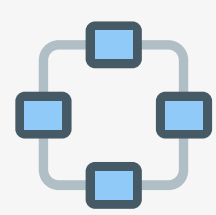
172.31.32.0/20

Start 172.31.32.0  
End 172.31.47.255

us-east-2a

us-east-2b

us-east-2c



- **One** per region - can be removed & recreated
- **Default VPC CIDR** is always **172.31.0.0/16**
- **/20** Subnet in **each AZ** in the region
- Internet Gateway (**IGW**), Security Group (**SG**) & NACL
- **Subnets assign public IPv4 addresses**

