VPC : Virtual networking

1. Logocally isolated network in the aws cloud 2. Control of network architecture 3. Security(routing rules, inbound and out bound traffic control) 4. Internetwork with other orginazations(inside AWS) 5. Elastic Ip Address(public IP's) 6. Enable hybrid cloud(connecting local DC to aws with site to site VPN) 7. VPC is free VPN is paid 8. VPC is region wide.

9. Subnets are AZ specific.(Important)

10. SG --> Resource level traffic firewall, Ingress and Egress, Stateful(Return traffic allowed) 11. ACL--> Source and protocl filtering, Subnet level traffic firewall(Inbound and outbound), Stateless(Traffic strictly filtered, returned traffic not allowd) 12. VPC peering : Inter-VPC routing within same region even with different AWS account, No overlapping network addresses allowed.