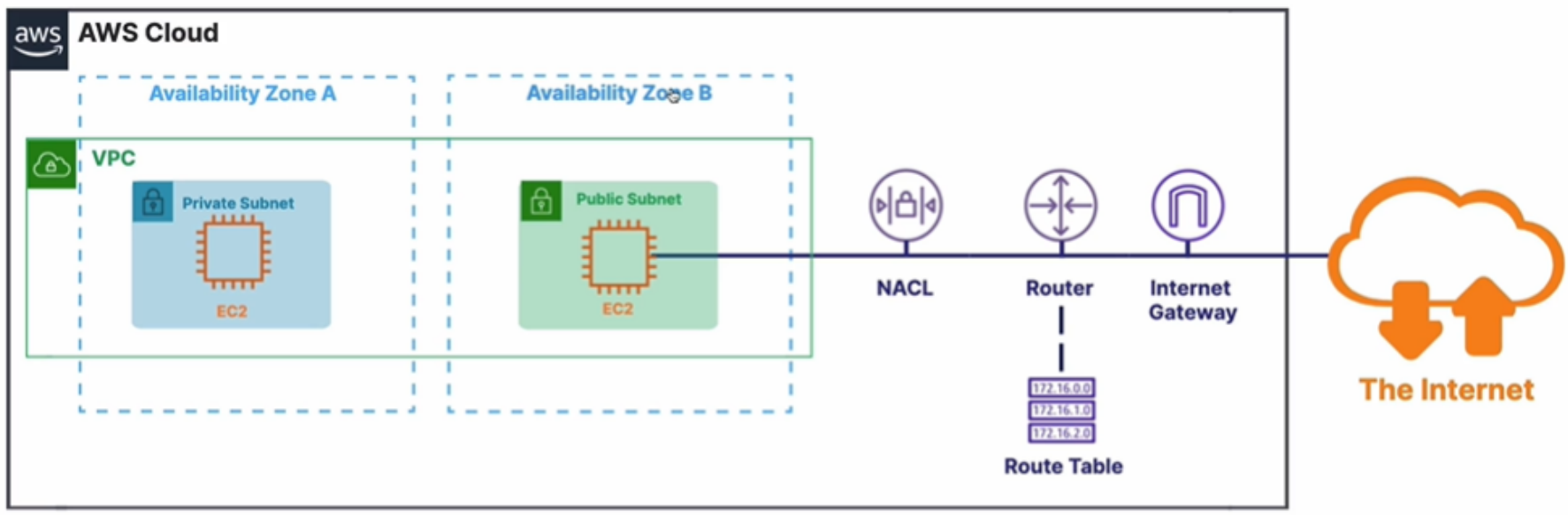
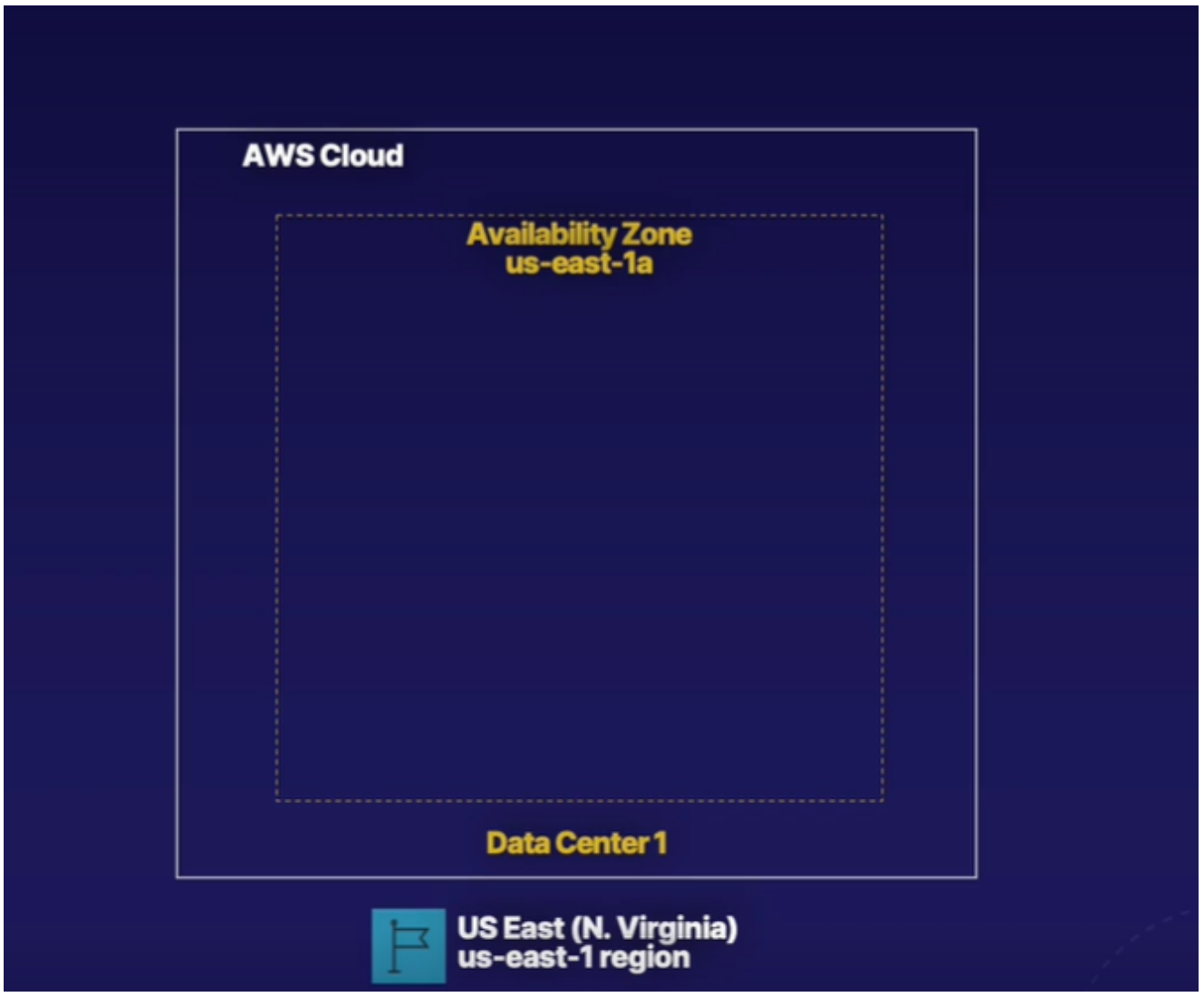
Understanding Networking Services: VPC and Subcomponents

Questions	reponses
The bigger picture	• Networking connects computers together and allows for the sharing of data and apps , around the globe , in a secure manner using virtual routers, firewalls and netwrork management services
Amazon virtual Private Cloud(vpc): internet gateway and peering vpc	• VPC is foundational service that allows you to create a secure private network in the aws cloud where you launch your ressources • private virtual network • launch ressources like ec2 instances inside the vpc • isolate and protect ressources • a vpc spans az in a region
diagramm	 • subnet: allows you to split the network inside the vpc . This is where you launch ressources like EC2 instnaces • Network ACL: access control lists (ACLs) ensure the proper traffic is allowed into the subnet • Routr and route table: defines where network is routed • Internet Gateway: an internet gateway allows traffic ro the internet from a VPC
VPC peering allows you to connect 2 vpcs together	• peering facilitates the transfer of data in a secure manner
Things to remeber	• an Internet gateway allows traffic to the public internet and peering connects 2 VPCs together

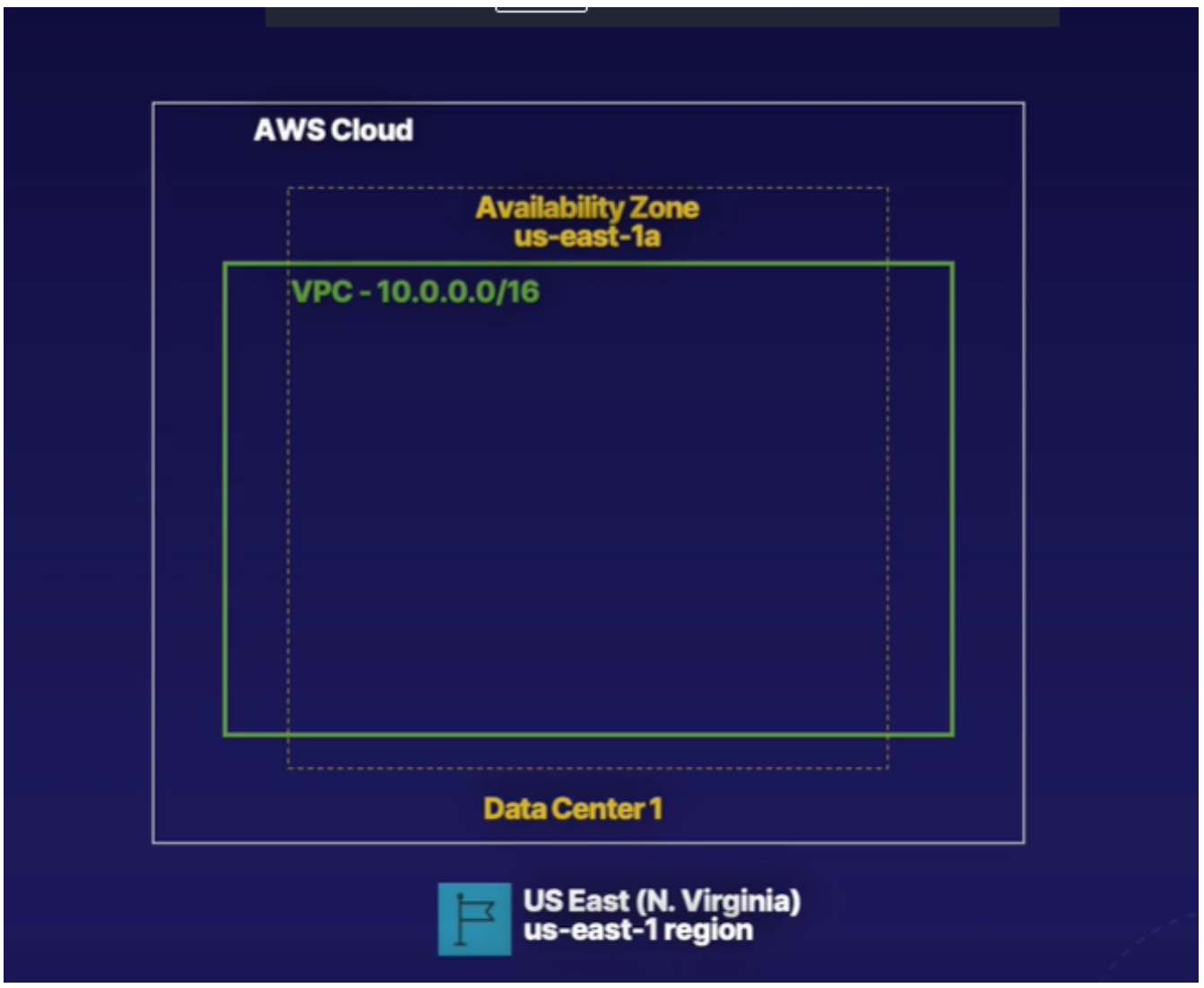
Lab:

Launch an EC2 Instance in a Virtual Private Cloud (VPC)

- At the first looks like this:



- then we will create a custom VPC:



- then rouetrs , internet Gateway and finally launch an ec2 instance within your subnet with security group
- there is two way to create a VPC
  - you can use the VPC wizard
  - create it manually