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About this capture

VPC

If you are studying for AWS Developer Associate Exam, this guide will help you with quick revision before the exam. it can use as study notes for your preparation.

Dashboard

Other Certification Notes

VPC

- VPC
  - VPC And Subnets Primer
  - Internet Gateway And NAT Gateways
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VPC And Subnets Primer

- VPC: private network to deploy your resources (regional resource)
- Subnets allow you to partition your network inside your VPC (Availability Zone resource)
- A public subnet is a subnet that is accessible from the internet
- A private subnet is a subnet that is not accessible from the internet
- To define access to the internet and between subnets, we use Route Tables.
- Public Subnets usually contain:
  - Load Balancers
  - Static Websites
  - Files
  - Public Authentication Layers
- Private Subnets usually contain:
  - Web application servers
  - Databases
- Public and Private subnets can communicate if they're in the same VPC

Internet Gateway And NAT Gateways

- **Internet Gateways** helps our VPC instances connect with the internet
- Public Subnets have a route to the internet gateway.
- **NAT Gateways** (AWS-managed) & NAT Instances (self-managed) allow your instances in your **Private Subnets** to access the internet while remaining private

Network ACL And Security Groups

- NACL (Network ACL)
  - A firewall which controls traffic from and to subnet
  - Can have ALLOW and DENY rules
  - Are attached at the Subnet level
  - Rules only include IP addresses
- Security Groups
  - A firewall that controls traffic to and from an ENI / an EC2 Instance
  - Can have only ALLOW rules
  - Rules include IP addresses and other security groups

Network ACLs vs Security Groups

Security Group	Network ACL
Operates at the instance level	Operates at the subnet level
Supports allow rules only	Supports allow rules and deny rules

