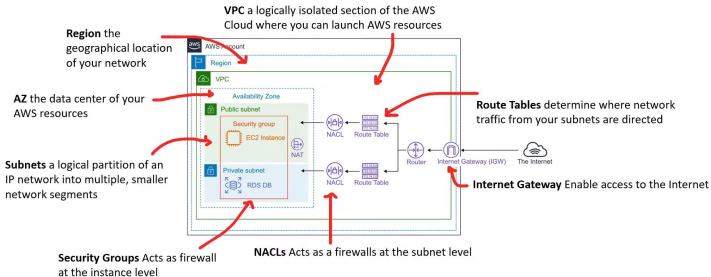




Cloud-Native Networking Services

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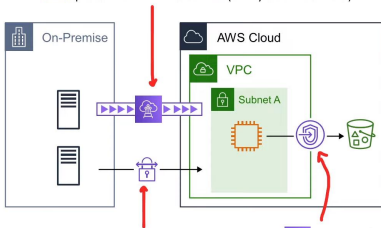


Enterprise/Hybrid Networking

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DirectConnect dedicated gigabit connection from on-premise data-center to AWS (a very fast connection)



AWS Virtual Private Network (VPN) a secure connection between on-premise, remote offices, mobile employees.



PrivateLinks (VPC Interface Endpoints) keeps traffic within the AWS network and not traverse the internet to keep traffic is secure.

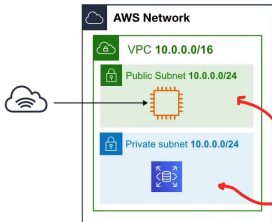


Virtual Private Cloud (VPC) and Subnets

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Virtual Private Cloud (VPC) is a logically isolated section of the AWS Network where you launch your AWS resources. You choose a **range of IPs using CIDR Range**

CIDR Range of **10.0.0.0/16 = 65,536** IP Addresses



Subnets a logical partition of an IP network into multiple smaller network segments. **You are breaking up your IP range for VPC** into smaller networks.

Subnets **need to have a smaller CIDR range than to the VPC** represent their portion.

eg Subnet CIDR Range 10.0.0.0/24 = 256 IP Addresses

A Public Subnet is one that can reach the internet

A Private Subnet is one that cannot reach the internet

Security Groups vs NACLs

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Network Access Control Lists (NACLs)

Acts as a virtual **firewall at the subnet level**

You create **Allow and Deny rules**.

eg. Block a specific IP address known for abuse

Security Groups

Acts as a virtual **firewall at the instance level**

Implicitly denies all traffic. **You create only Allow rules.**

eg. Allow an EC2 instance access on port 22 for SSH

eg. You cannot block a single IP address.

