

Amazon VPC-1





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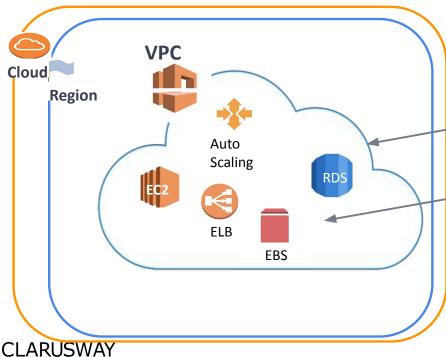
Introduction to VPC



WAY TO REINVENT YOURSELF

Introduction to VPC

What is VPC?



Amazon Virtual Private Cloud (Amazon VPC) is a logically isolated area of the AWS cloud where you can launch AWS resources in a virtual network that you define.



2 VPC Basic Components

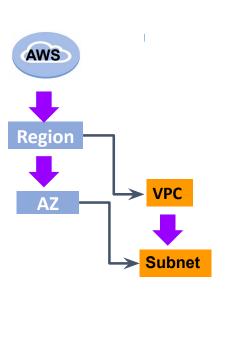


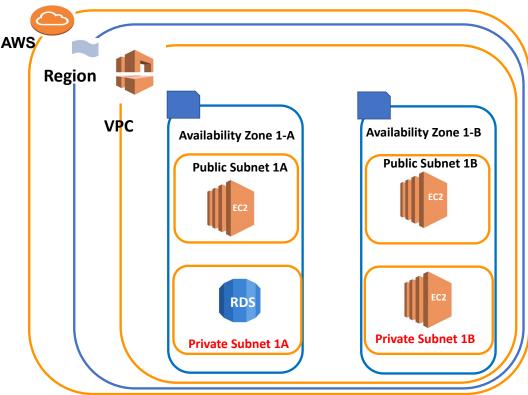
VPC Basic Components

- VPC Region (AZ)
- VPC Subnets
- VPC CIDR
- Internet Gateway
- Route Table
- Security Group and Network ACL



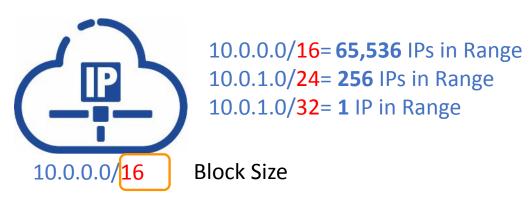
Region, VPC, AZ and Subnets





VPC CIDR

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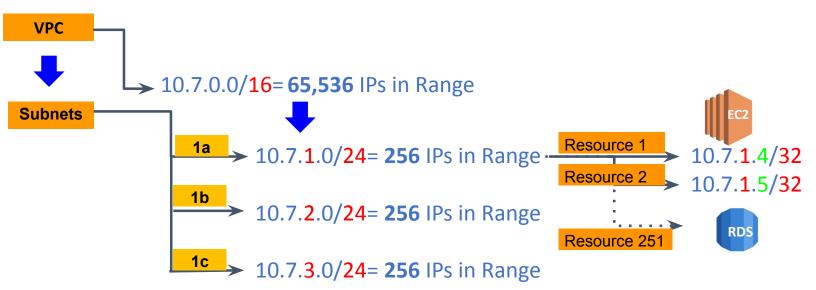


- CIDR refers to Classless Inter-Domain Routing.
- It is a set of Internet protocol (IP)
- standards that is used to create unique identifiers for networks.
- As the Size Block/Netmask (/16,24,32) increases, the number of IP located in CIDR Block decreases.



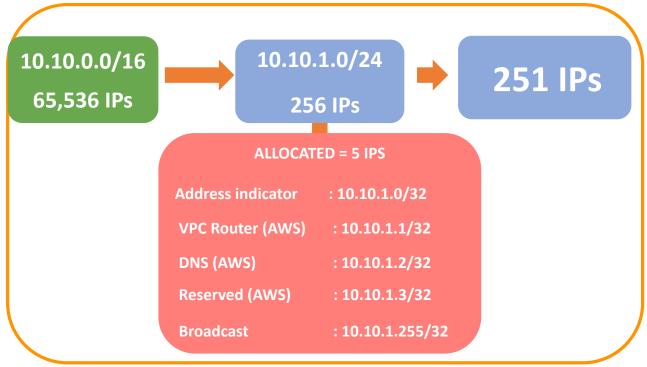
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VPC CIDR

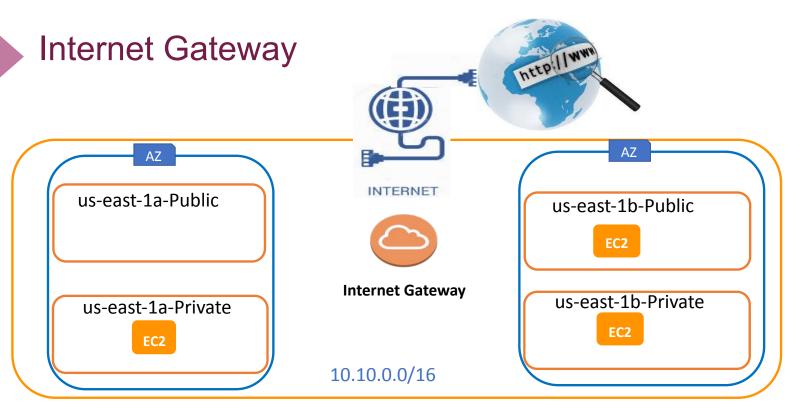




VPC CIDR



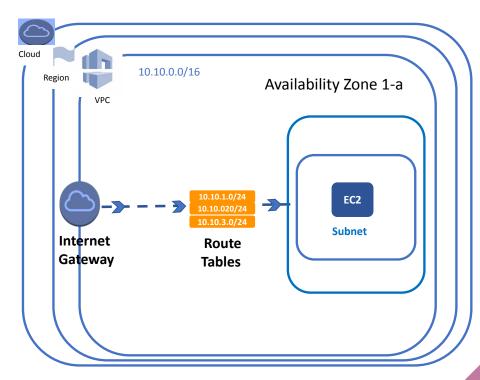
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 Internet Gateway is a VPC component that provides communication between resources in your VPC and the internet.

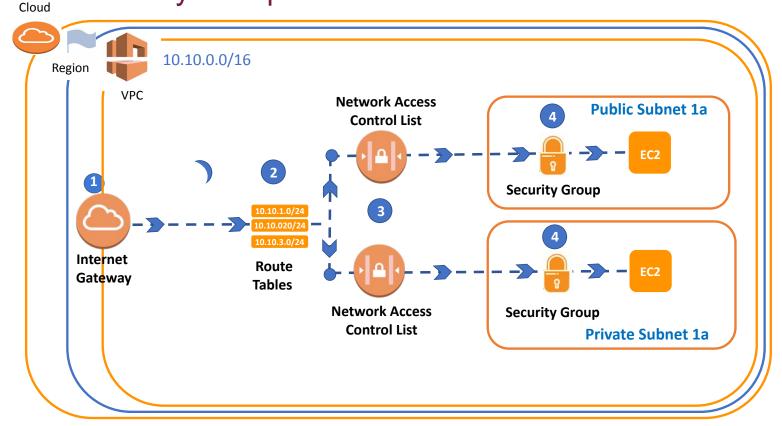
Route Table

 Route Table is a set of rules, that is used to determine where VPC traffic is directed.





Security Group - Network Access Control List



Network ACLs & Security Groups

- Network ACLs are subnet-based security components.
- It controls the traffic in and out of subnets.
- Security Groups are instance-based security components,
- They are used for determining which traffic will access the instance.
- Instance in subnet is affected by rules of both Security Groups and Network ACLs



	Security Group	Network Access Control List
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Rules	It supports only Allow Rules	It supports both Allow and Deny rules
Default by AWS	By default, inbound rules are Denied , outbound rules are Allow	By default, all the rules are Allowed
* Newly Created by User	By default, inbound rules are Denied , outbound rules are Allow	By default, all the rules are Denied* until you add rules.
Add Rule	You need to add the rule which you'll Allow	You need to add the rule which you can either Allow or Deny it.
Stateful/Stateless	It is a Stateful means that any changes made in the inbound rule will be automatically reflected in the outbound rule	It is a Stateless means that any changes made in the inbound rule will not reflect the outbound rule
Association	1. It is instance-based	1. It is subnet-based
	Instances can associate with more than one Security Groups	Subnets can associate with only one Network ACL













