

Custom VPC

- This VPC is created by account owner
- At the time of **Creation decide CIDR**
- It also has default Security Groups, N-ACL & Route tables
- No default Subnet in each AZ
- Does **not have Internet gateway**, attach one if you require

Default VPC

- When AWS account is created, its by default created in all AWS region
- It has default CIDR, Security Groups, N-ACL & Route tables
- Default Subnets in each AZ
- Internet Gateway is also by default

Default VPC

- When AWS account is created, its by default created in all AWS region
- It has default CIDR, Security Groups, N-ACL & Route tables
- Default Subnets in each AZ
- Internet Gateway is also by default

Default VPC

- When AWS account is created, its by default created in all AWS region
- It has default CIDR, Security Groups, N-ACL & Route tables
- Default Subnets in each AZ
- Internet Gateway is also by default

Custom VPC

- This VPC is created by account owner
- At the time of Creation decide CIDR
- It also has default Security Groups, N-ACL & Route tables
- No default Subnet in each AZ
- Does **not** have **Internet gateway**, attach one if you require

Custom VPC

- This VPC is created by account owner
- At the time of **Creation decide CIDR**
- It also has default Security Groups, N-ACL & Route tables
- No default Subnet in each AZ
- Does not have Internet gateway, attach one if you require

Route Tables

Dece Dive &

Security Group



Route Tables

- These are tables that have entries which says what is the destination and target for that packet
- Each Subnet MUST have ONLY ONE Route Table
- One ROUTE Table can be associated with Multiple Subnets

Route Tables

- These are tables that have entries which says what is the destination and target for that packet
- Each Subnet MUST have ONLY ONE Route Table
- One ROUTE Table can be associated with Multiple Subnets



Route Tables

- These are tables that have entries which says what is the destination and target for that packet
- Each Subnet MUST have ONLY ONE Route Table
- One ROUTE Table can be associated with Mutiple Subnets



Route Tables

- If you don't specify a subnet-to-route-table association, the subnet will be associated with the Main (default) VPC route table.
- Default route table that gets created automatically when you create VPC is set as Main Route Table



Route Tables

- If you don't specify a subnet-to-route-table association, the subnet will be associated with the Main (default) VPC route table.
- Default route table that gets created automatically
when you create VPC is set as Main Route Table



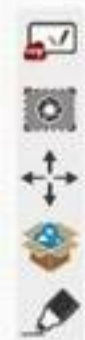
-

Route Tables

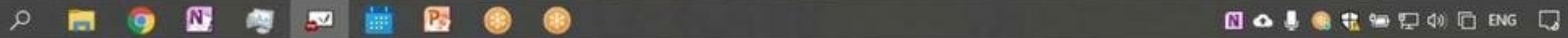
- Subnet association can be changed to another Route Table (Custom)
- Custom Route Table can become Main Route Table
- Main Route Table cannot Be deleted
- Every Route Table has default rule for all VPC subnets to communicate (You cannot modify or delete)

Route Tables

- Subnet association can be changed to another Route Table (Custom)
- Custom Route Table can become Main Route Table
- Main Route Table cannot Be deleted
- Every Route Table has default rule for all VPC subnets to communicate (You cannot modify or delete)



Security Groups



Security Groups

- Security group is a virtual firewall
- It controls traffic at the virtual server or EC2 Instance (Specifically associated with virtual network interface also known as ENI- Elastic Network Interface)



Security Groups

- Security group is a virtual firewall
- It controls traffic at the virtual server or EC2 Instance (Specifically associated with virtual network interface also known as ENI - Elastic Network Interface)

→ Class 17

Security Groups

- Security group is a virtual firewall
- It controls traffic at the virtual server or EC2 Instance (Specifically associated with virtual network interface also known as ENI- Elastic Network Interface)



Security Groups



Security Groups

- Its the defense in depth, ~~basically~~ the last defense component in the VPC.
- An EC2 Instance must have a security Group at launch

Security Groups

- Its the defense in depth, basically the last defense component in the VPC.
- An EC2 Instance must have a security Group at launch



Security Groups

- Security groups are stateful and Directional
 - ☐ If Inbound traffic is allowed, return traffic(Outbound) is allowed (~~no rules required~~)
 - ☐ If Outbound traffic is allowed, return traffic(Inbound) is allowed (no rules required)

Security Groups

- Security group are stateful and Directional
- ☐ If Inbound traffic is allowed, return traffic(Outbound) is allowed (no rules required)
- ☐ If Outbound traffic is allowed, return traffic(Inbound) is allowed (no rules required)

Security Groups

- Security groups are stateful and Directional
 - ☐ If Inbound traffic is allowed, return traffic(Outbound) is allowed (no rules required)
 - ☐ If Outbound traffic is allowed, return traffic(Inbound) is allowed (no rules required)