AWS Project: Deploying a static website with AWS.

##AWS Services for the project

-VPC

-EC2

-Security group

-NAT gateway

-Classic Load Balancer

-Bastion Host instance

-Keypairs

### VPC Network Design:

-VPC IP Range:

4 subnets: 2 public subnets, 2 private subnets

2 zones: us-east-1a and us-east-1b

172.18.1.0/24 public-sub 1:us-east-1a

172.18.2.0/24 public-sub 2:us-east-1b

172.18.3.0/24 private-sub 1:us-east-1a

172.18.4.0/24 private-sub 2:us-east-1b

1 Internet gateway

1 NAT gateway

1 EIP

2 Route Tables: 1 Public subnet Route Table, 1 Private subnet Route Table

1 Bastion host in Pub subnet

## Deploying the website

-Let's login into our AWS account and for security reason, we can use an IAM user who have full administration privilege. If you don't have one and don't know how to create one, just follow this document: https://docs.aws.amazon.com/IAM/latest/UserGuide/id\_users\_create.html.

-Now, let get started with the project:

-Let's create the VPC first before other service. Navigate to the VPC console by searching VPC or using the service list option. I am going to create my VPC in the N.Virginia (us-east-1) region because I am closer to this region.

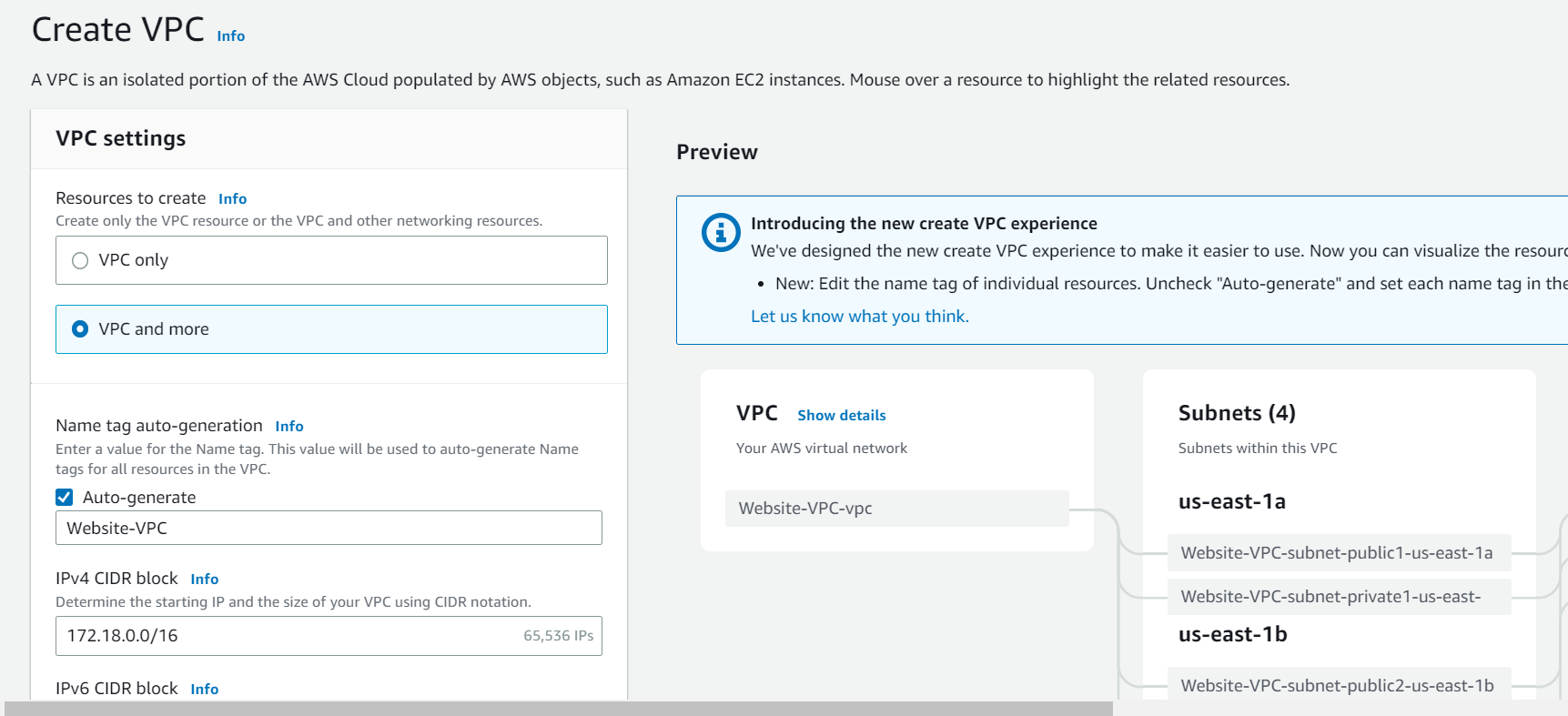
# Creating a VPC

Graphical user interface, application

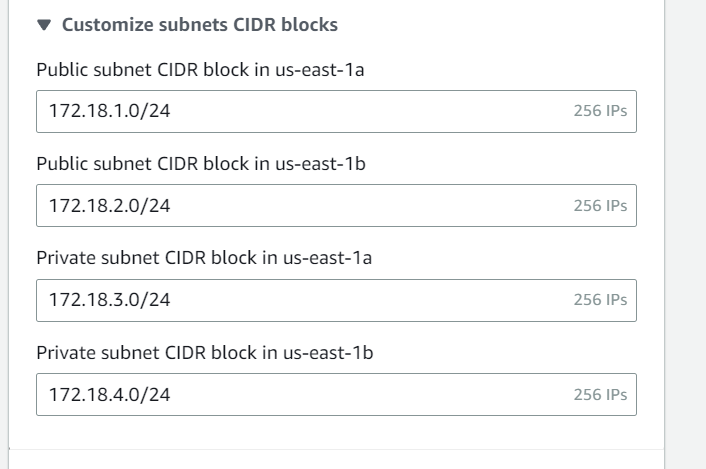
Description automatically generated

-If you look at the VPC home page, we can see that I have 1 VPC, 6 subnets, 1 security group, etc. AWS always have default services in your account for security reasons because if we do not define a security option, then AWS would apply the default option for us.

# Creating a VPC with more than one subnets with my IP range: 172.18.0.0/16



# Setting up my public and private subnets for my VPC



# Creating a NAT gateway in the public subnet and allocate an Elastic IP

Graphical user interface, text, application, email

Description automatically generated

# Launching a Centos7 instance for website

Graphical user interface, text, application

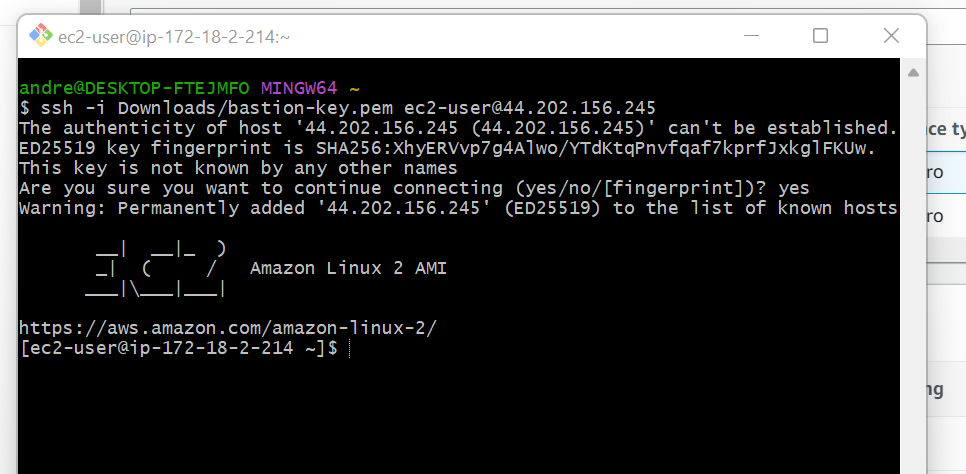
Description automatically generated

# Creating a bastion host instances in a public subnet

Graphical user interface, text, application

Description automatically generated

# Login into my bastion host instance from my computer



# Creating a load balancer

Graphical user interface, application, Word

Description automatically generated

# The website is load balancer

Graphical user interface, text, application, email

Description automatically generated

# My two instances running

Graphical user interface, application

Description automatically generated

# Accessing my website using the load balancer DNS name

Graphical user interface, website

Description automatically generated