1. **VPC Configuration Lab**
   * **Objective**: To understand the fundamentals of AWS networking through the configuration of a Virtual Private Cloud (VPC).
   * **Approach**: Students will create a new VPC, add subnets, set up an Internet Gateway, and configure route tables. The lab might also include setting up a simple EC2 instance within this VPC to demonstrate how resources are deployed in a custom network environment.
   * **Goal**: By the end of this lab, students should be able to create and configure a VPC, understand subnetting, and the role of route tables and internet gateways in AWS.

Steps -

1. Create VPC with vpc setting vp
2. Then, create two subnets Private and public with IPv4 10.0.1.0/24 and 10.0.0.0/24
3. Create Internet Gateway
   1. Attach created gateway to VPC
4. Create Route tables
   1. Associate it with subnet
   2. Attach internet gateway in edit routes
5. TO create a webserver in EC2 instance
   1. In Network setting select created vpc
   2. Select Public subnet
   3. Also, Add SSH and HTTP inbound security group rules.
   4. After creating connect it
   5. Now enter appropriate command to do
   6. [Deploy your first hello world application on AWS EC2 Instance | by Rohit Jain | Medium](https://medium.com/@rj03012002/deploy-your-first-hello-world-application-on-aws-ec2-instance-e474028964a9)
      1. ssh -i "C:\Users\Akshay\Downloads\vpc09.pem" [ec2-user@3.83.179.137](mailto:ec2-user@3.83.179.137)
      2. sudo su
      3. yum update -y  
         yum install httpd
      4. cd /var/www/html
      5. sudo chown -R $USER /var/www/html
      6. sudo chmod 777 /var/www/html
   7. open command prompt from .pem file location
      1. scp -i "vpc09.pem" "index.html" [ec2-user@3.83.179.137:/var/www/html/index.html](mailto:ec2-user@3.83.179.137:/var/www/html/index.html)
6. End of task for Linux
7. For Windows
   1. Create new instance with windows
   2. Add security group with inbound rule rdb and http
   3. From rdp client download remote desktop file
   4. Open remote desktop connection
   5. Generate password for it from rds client
   6. Then connect with local resource
   7. Then install python to the virtual machine
   8. With python upload html file to localhost
      1. Search for localpost:8000



























































