Exercise6
Accessing SQS from private EC2

1. Login to your IAM user
2. Follow all the steps of Exercise2
3. Enable Private DNS for your VPC
    a. Select your VPC, click Actions, Edit VPC Settings: Check both the checkboxes (Enable DNS resolution and Enable DNS hostname)
    b. Click Save
4. Type SQS in the search bar
    a. Click Create queue, give a name, click Create queue
5. Update the IAM role created in Exercise5
    a. Select your IAM, click Add permissions, Attach policies
    b. Type SQS in the search bar, select SQSFullAccess, click Add permissions
6. Create Security group for ENI
    a. Type VPC in the search bar, click Security group
    b. Click Create Security group, give a name and a description, select your VPC, under Inbound rules, click Add rule:
        i. Type: HTTPS, Source: your VPC CIDR, click Create security group
7. Create VPC interface endpoint
    a. Click endpoints, click Create endpoint, give a name, Service category: AWS services, Services: (type sqs in the search bar) select the endpoint, choose your VPC, select the private subnet, select your security group, Policy: Full access, press Create endpoint
8. ssh private EC2 from public EC2
    a. type the command:
        i. aws sqs send-message --queue-url <paste your SQS URL> --message-body "Test message"

The output of this command should give you MD5ofMessageBody and the MessageID.

9. Verify from AWS console
    a. Go to your message queue
    b. Under Receive messages, click Poll for messages.
    c. After polling is complete, click on the message id (under Messages)
10. Upload the screenshots that:
    a. shows your **IAM user name,**
    b. the EC2 welcome page that has the output of the commands:
        i. ssh -i <your .pem file> ec2-user@<private ec2 ip address>
        ii. aws sqs send-message --queue-url <paste your SQS URL> --message-body "Test message"
    c. The message body in the pop-up window after you clicked the message ID in your AWS console
11. **Stop both of your EC2 instances**
12. **Delete the interface endpoint**

Sources:
https://www.awswithchetan.com/