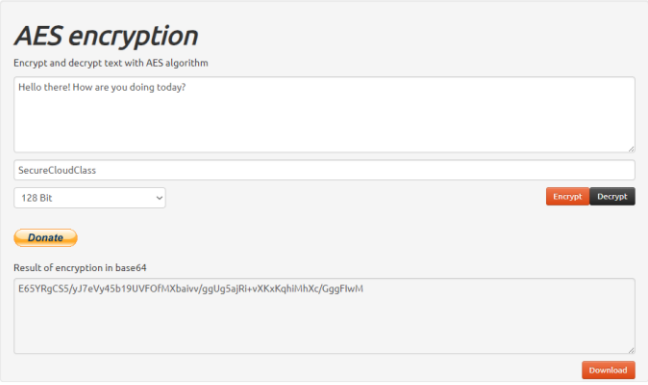
Lab Logbook Week 3 Student ID GAR22521797 Date----------	
Briefly introduce the aim of this lab	The aim of this lab is to learn how to secure data, encrypt and decrypt messages before pushing them to the cloud.
Identify the tools used for each task and why it was required.	AES Encryption site – a tool used to encrypt or decrypt plaintext/cyphertext it was required to do the activity 1 to send an encrypted message and have a course mate decrypt it. S3 Bucket - provides storage with encryption and access controls it is required to secure data in the cloud CloudTrail – provides a way to save activity logs in an S3 bucket
What are your observations from each task?	From the very first task, I went to an encryption website, typed a message provided an encryption key and then it gave me the encrypted message which I could send to my course mate. For activity 2, I created a new bucket with encryption and access controls and added a bucket policy. For the exercise, I created a new S3 bucket for logs to be saved by CloudTrail with encryption and access con trolls set up.
Report your lab experimental result for each task	 Sending the email to the course mate.

Week3 Lab activity

AC

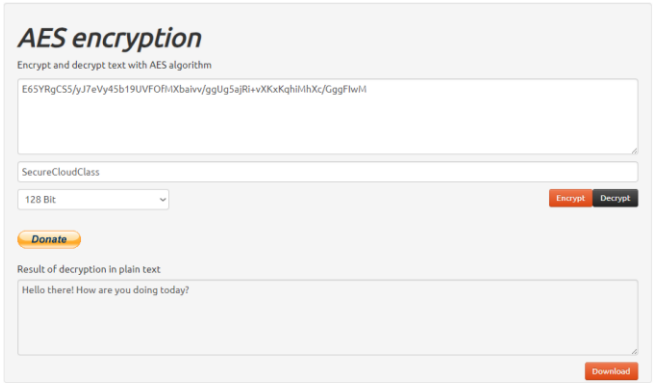
Alex Garcia Chiquito (Student)

To: Asadbek Muzaffarov (Student)

Result of encryption in base64
E65YRgCS5/yJ7eVy45b19UVFOfMXbaivv/ggUg5ajRi+vXKxKqhiMhXc/GggFIwM

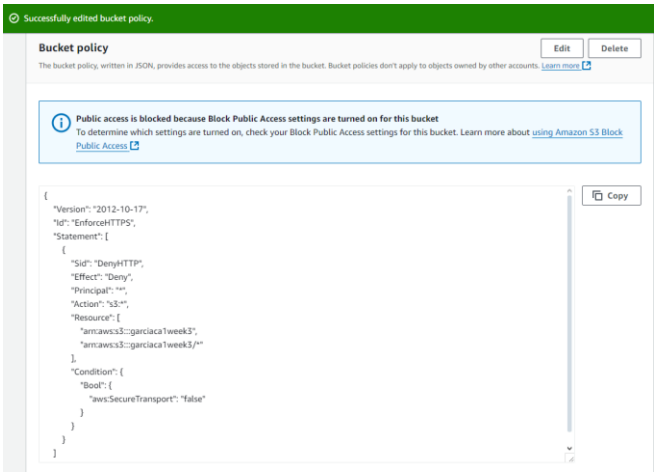
Secret Key : SecureCloudClass

Course mate's findings:

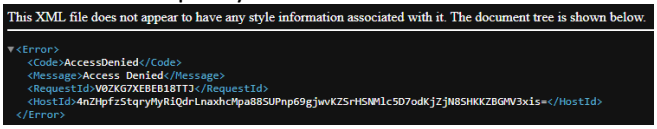


They managed to get the same original plaintext message which I wrote so it worked through the input of the pre-shared key.

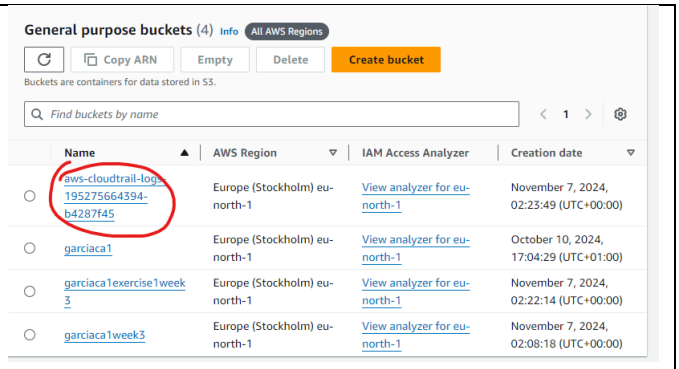
For activity 2, I added a bucket policy in the permissions tab to enforce HTTPS-only communication.



Proof that the policy is enforced.



For exercise 1, I created a new S3 bucket and used CloudTrail to save logs in an S3 bucket.

	
What was your takeaway from the tasks	I learnt how to create a bucket with bucket policies, encryption and access controls. I also learnt how to use CloudTrail to save logs for the activities of the buckets in a bucket in S3 console.