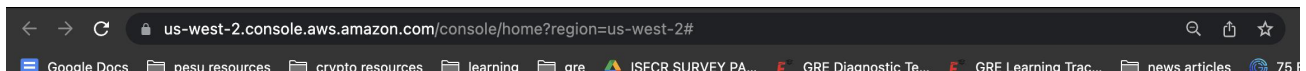


Experiment 5 – Introduction to AWS Key Management Service(KMS)

Submitted by: Mahika Gupta

SRN: PES1UG20CS243

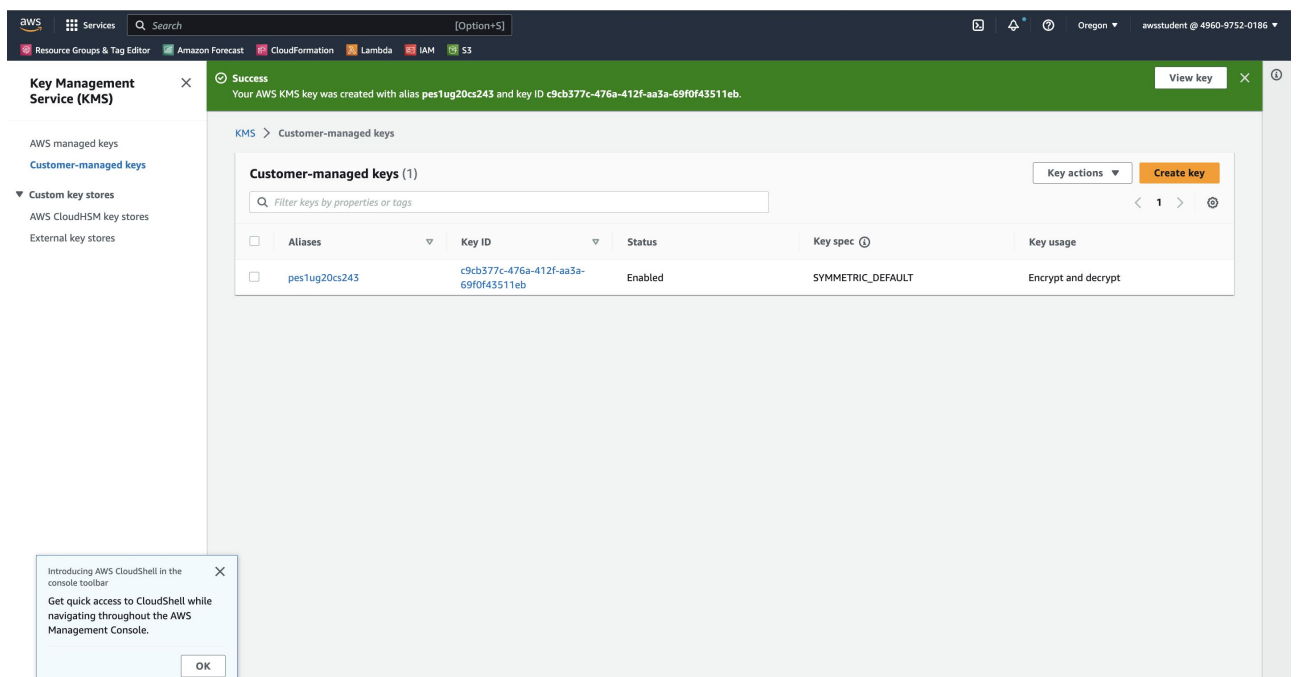
Note down your region when you start the experiment and open AWS. It'll be useful in the experiment later. In the below image, the region is us-west-2.



Deliverables:

The following screenshots are to be submitted:

- 1a.png: Showing KMS key created. The name of the alias should be: <Your SRN> Eg: pes1201900001



b. 2a.png: Showing the configured CloudTrail named <Your SRN>-trail.

The screenshot displays the AWS CloudTrail console. The top section shows a list of trails with columns for Name, Home region, Multi-region trail, Insights, Organization trail, S3 bucket, Log file prefix, CloudWatch Logs log group, and Status. Two trails are listed: 'pes1ug20cs243-trail' and 'us-west-2-qltrail-lab-4902-1680971532'. The first trail is selected, and its details are shown in the bottom section. The details include General details (Trail logging: Logging, Trail name: pes1ug20cs243-trail, Multi-region trail: Yes, Apply trail to my organization: Not enabled) and CloudWatch Logs (No CloudWatch Logs log groups). A 'Manage tags' section at the bottom shows no tags associated with the trail.

Trails

	Name	Home region	Multi-region trail	Insights	Organization trail	S3 bucket	Log file prefix	CloudWatch Logs log group	Status
<input type="radio"/>	pes1ug20cs243-trail	US West (Oregon)	Yes	Enabled	No	mycloudtrailbucket0243	-	-	Logging
<input type="radio"/>	us-west-2-qltrail-lab-4902-1680971532	US West (Oregon)	No	Disabled	No	qltrail-lab-4902-1680971532	-	-	Logging

pes1ug20cs243-trail

General details

Trail logging Logging	Trail log location mycloudtrailbucket0243/AWSLogs/496097520186	Log file validation Enabled	SNS notification delivery Disabled
Trail name pes1ug20cs243-trail	Last log file delivered April 08, 2023, 22:15:33 (UTC+05:30)	Last file validation delivered -	Last SNS notification -
Multi-region trail Yes	Log file SSE-KMS encryption Not enabled		
Apply trail to my organization Not enabled			

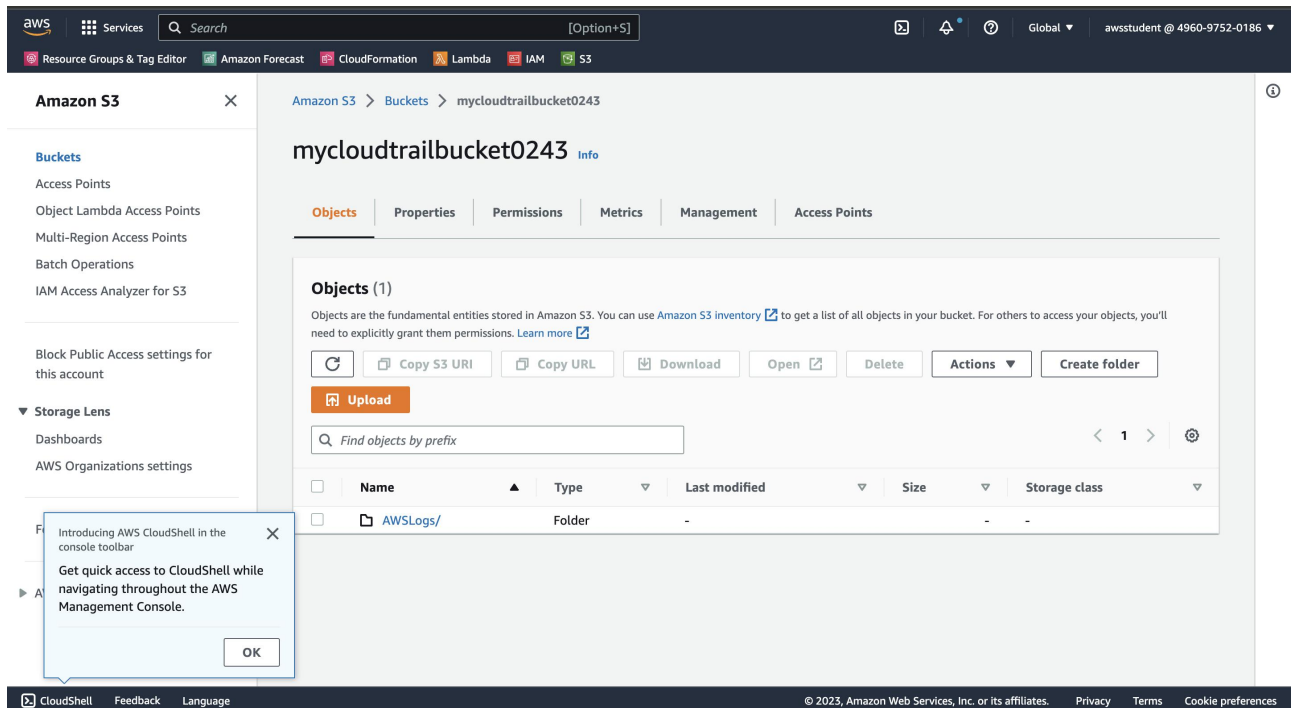
CloudWatch Logs

No CloudWatch Logs log groups
CloudWatch Logs is not configured for this trail

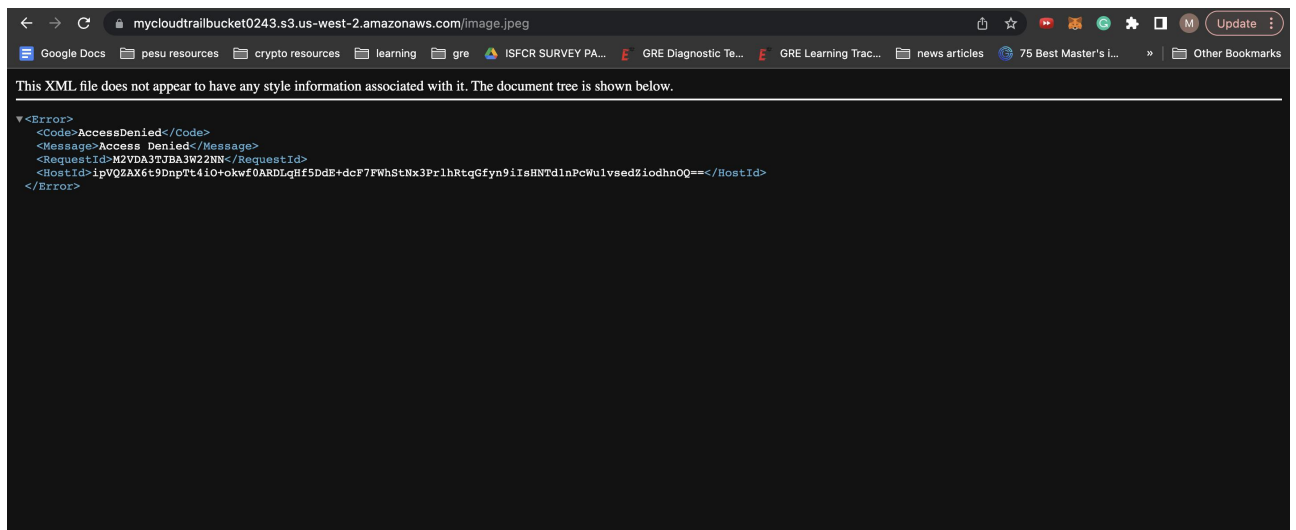
Manage tags

Key	Value
No tags	

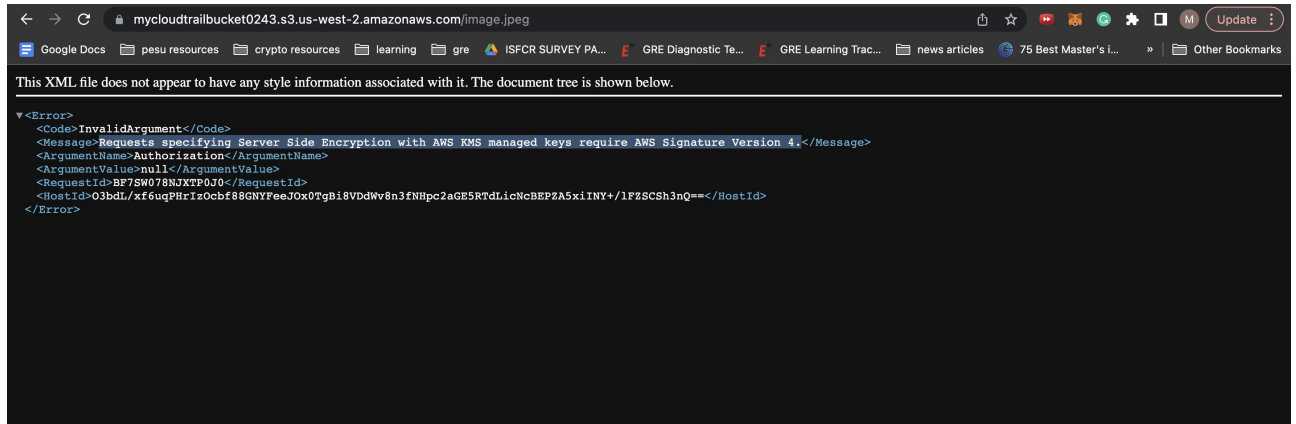
- c. 3a.png: Showing the configured bucket named `mycloudtrailbucketXXXX`. where XXXX are the last 4 digits of your SRN. You can pad it with 0s if you have less than 4 digits.



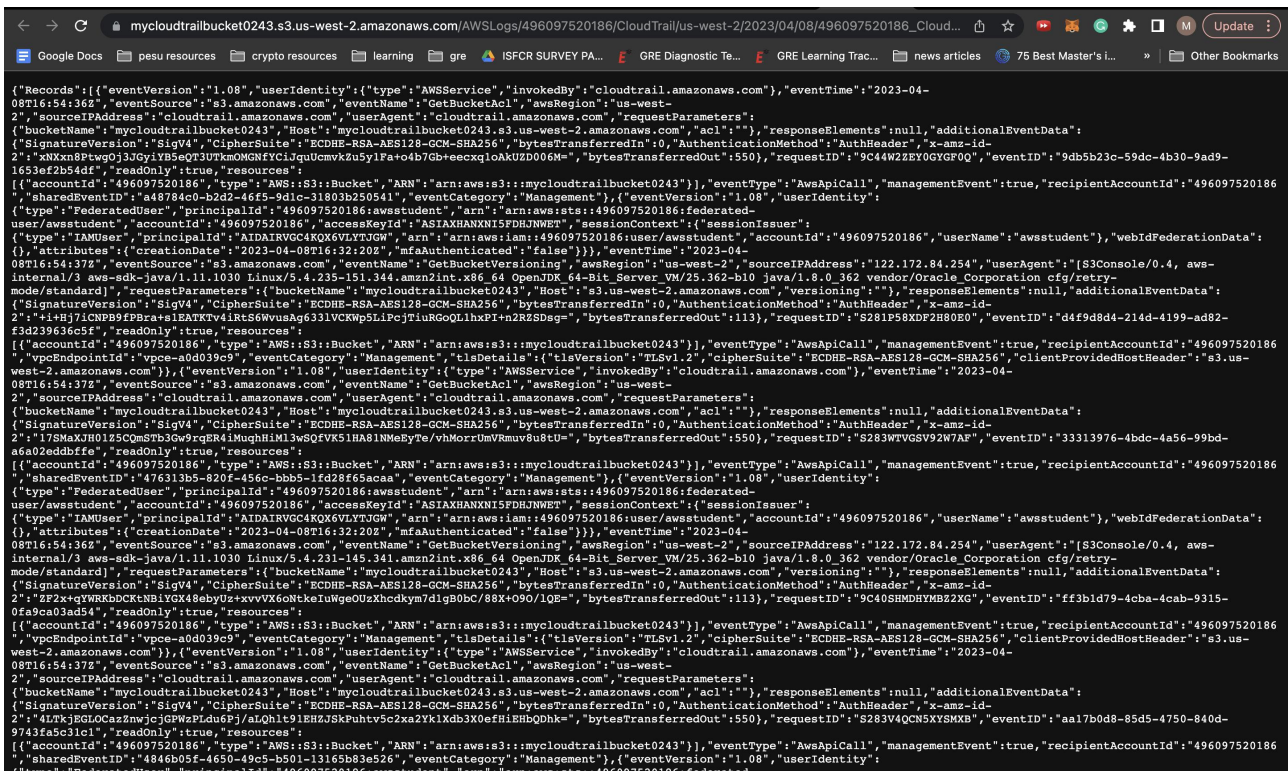
- d. 4a.png: Showing the “Access Denied” page when you open the link to the image stored in the bucket.



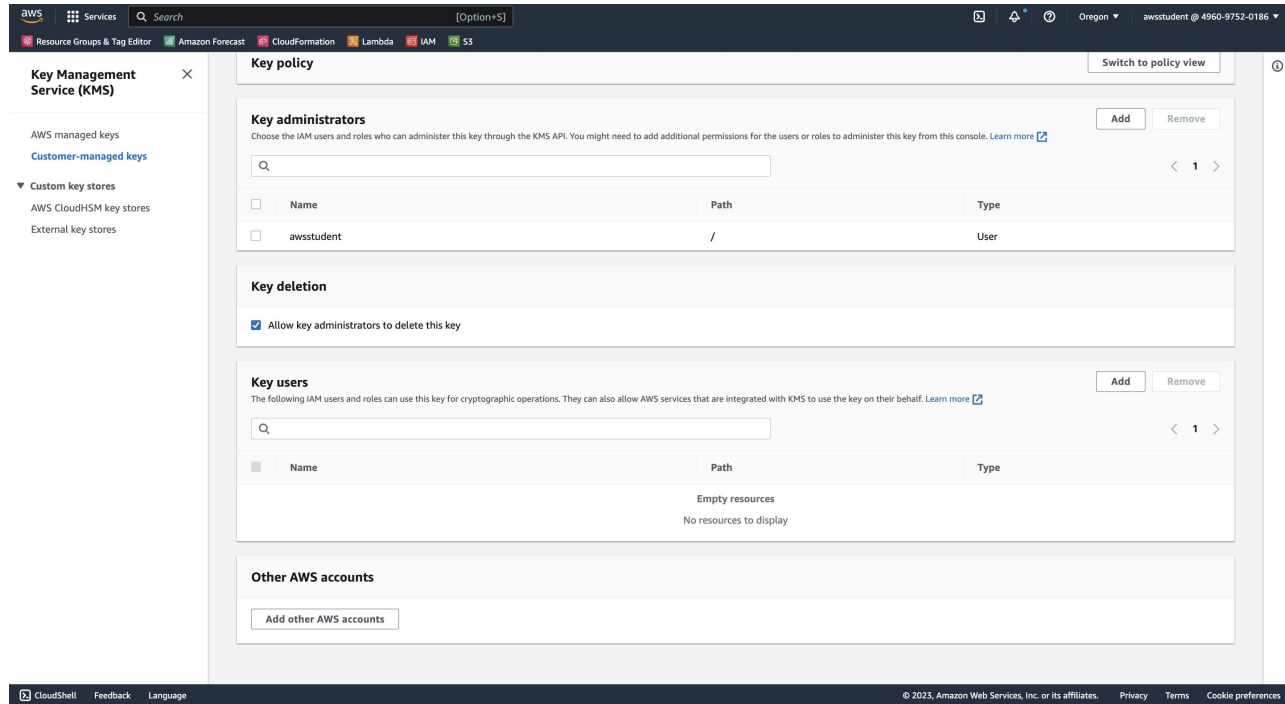
- e. 4b.png: Showing the “Requests specifying Server Side Encryption with AWS KMS managed keys require AWS Signature Version 4” page when you open the link to the image stored in the bucket.



- f. 5a.png: Showing the key-id being present in the json we get from .gzip'ed cloud trail logs.



g. 6a.png: Showing the state of key users after the user has been removed.



h. 6b.png: Showing the state of key users after the user has been added.

