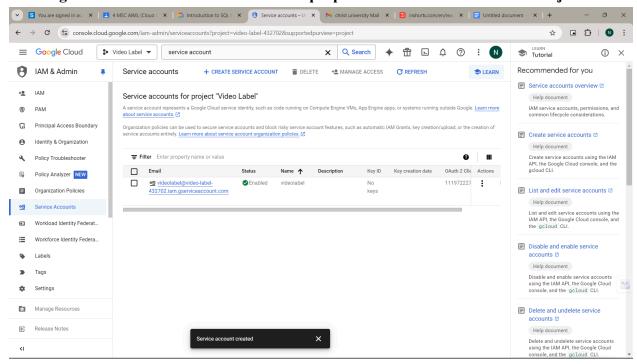
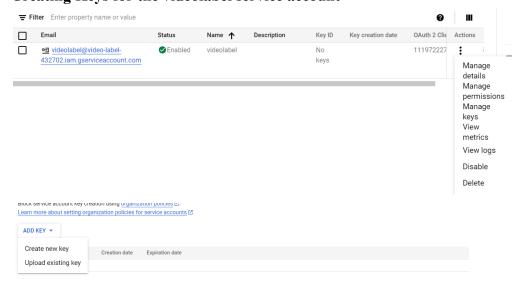
Cloud Computing LAB - 7

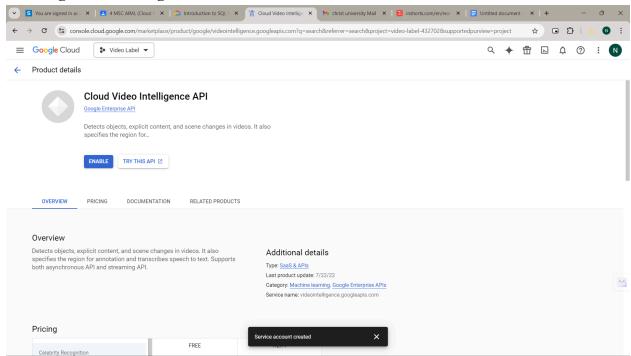
1. Creating Service Account "videolabel" with proper roles for the Video Label Project



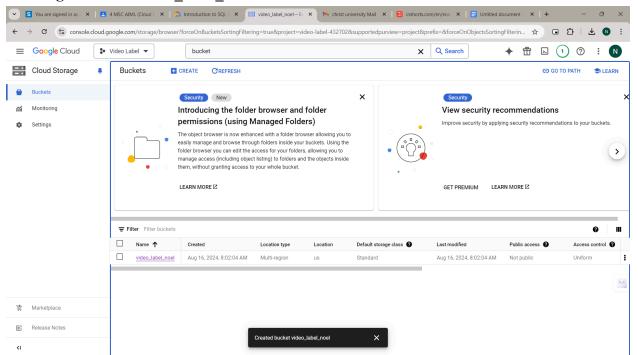
2. Creating Keys for the videolabel service account



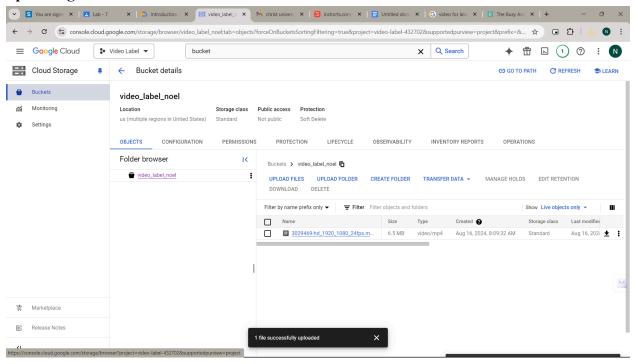
3. Enabling Cloud Intelligence API



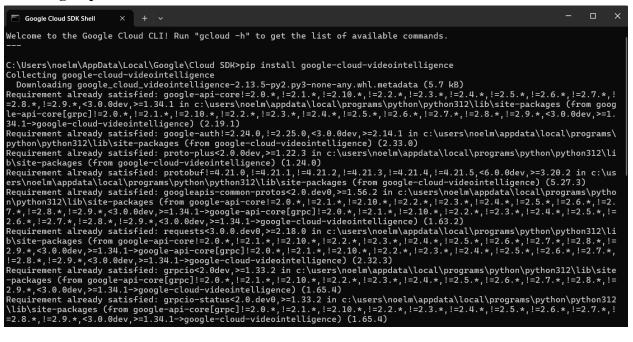
4. Creating a bucket "video label noel"



5. Uploading Video to the bucket



6. Installing required libraries



7. Specificing the credentials

C:\Users\noelm\AppData\Local\Google\Cloud SDK>set GOOGLE_APPLICATION_CREDENTIALS = c:\\Users\\noelm\\AppData\\Local\\Goo
gle\\Cloud SDK\\video-label-432702-218a192c342b.json

8. Creating and saving the python file in the same folder as the SDK

```
os.environ["GOOGLE_APPLICATION_CREDENTIALS"] = "c:\\Users\\noelm\\AppData\\Local\\Google\\Cloud SDK\\video-label-432702-218a192c342b.json
from google.cloud import videointelligence v1 as videointelligence
def analyze_labels_in_video(gcs_uri):
  video_client = videointelligence.VideoIntelligenceServiceClient()
   features = [videointelligence.Feature.LABEL_DETECTION]
   operation = video_client.annotate_video(
       request={"features": features, "input_uri": gcs_uri}
   print("Processing video for label detection...")
   result = operation.result(timeout=90)
   annotation_results = result.annotation_results[0]
   for label in annotation_results.segment_label_annotations:
       print(f"Label: {label.entity.description}")
       for category in label.category_entities:
                    - Category: {category.description}")
gcs_uri = "gs://video_label_noel/3029469-hd_1920_1080_24fps.mp4"
analyze_labels_in_video(gcs_uri)
```

9. Running the python script

```
C:\Users\noelm\AppData\Local\Google\Cloud SDK>python cc_lab7.py
Processing video for label detection...
Finished processing.
Label: public space
- Category: city
Label: urban area
- Category: city
Label: city
 - Category: geographical feature
Label: times square
Label: downtown
- Category: city
Label: new york city
Label: street
- Category: road
Label: pedestrian
- Category: person
```