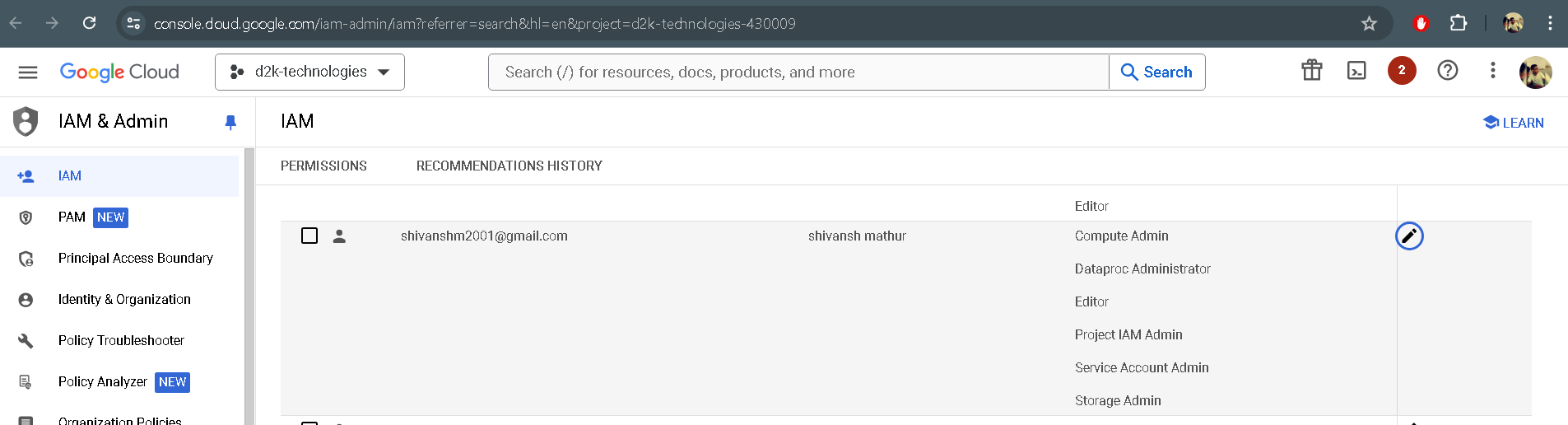
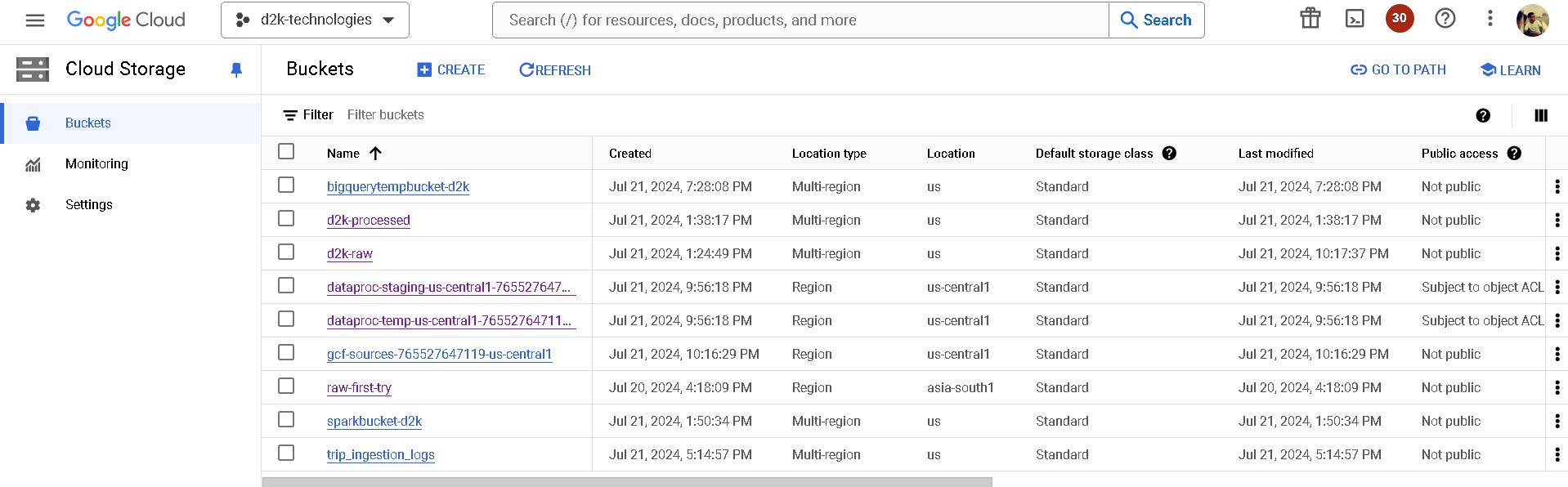
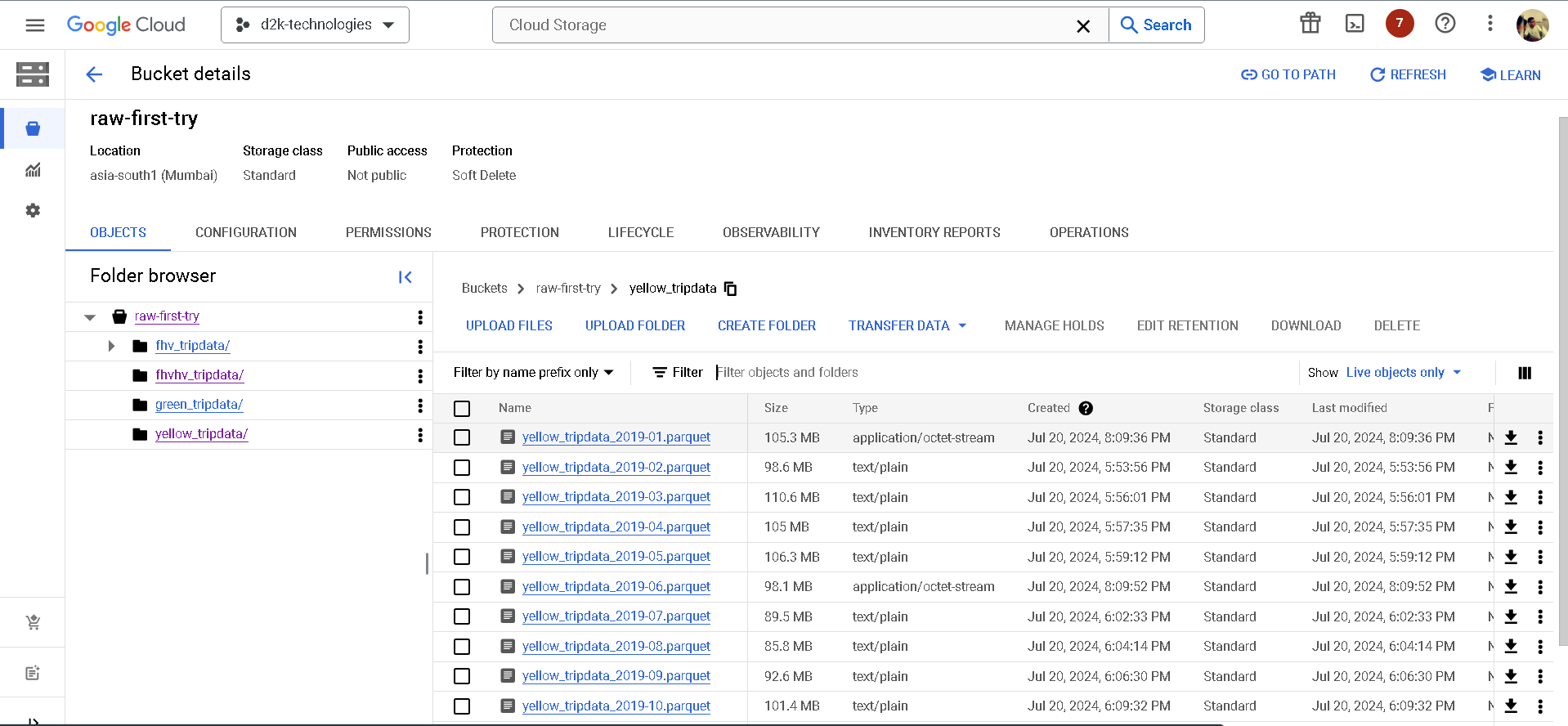
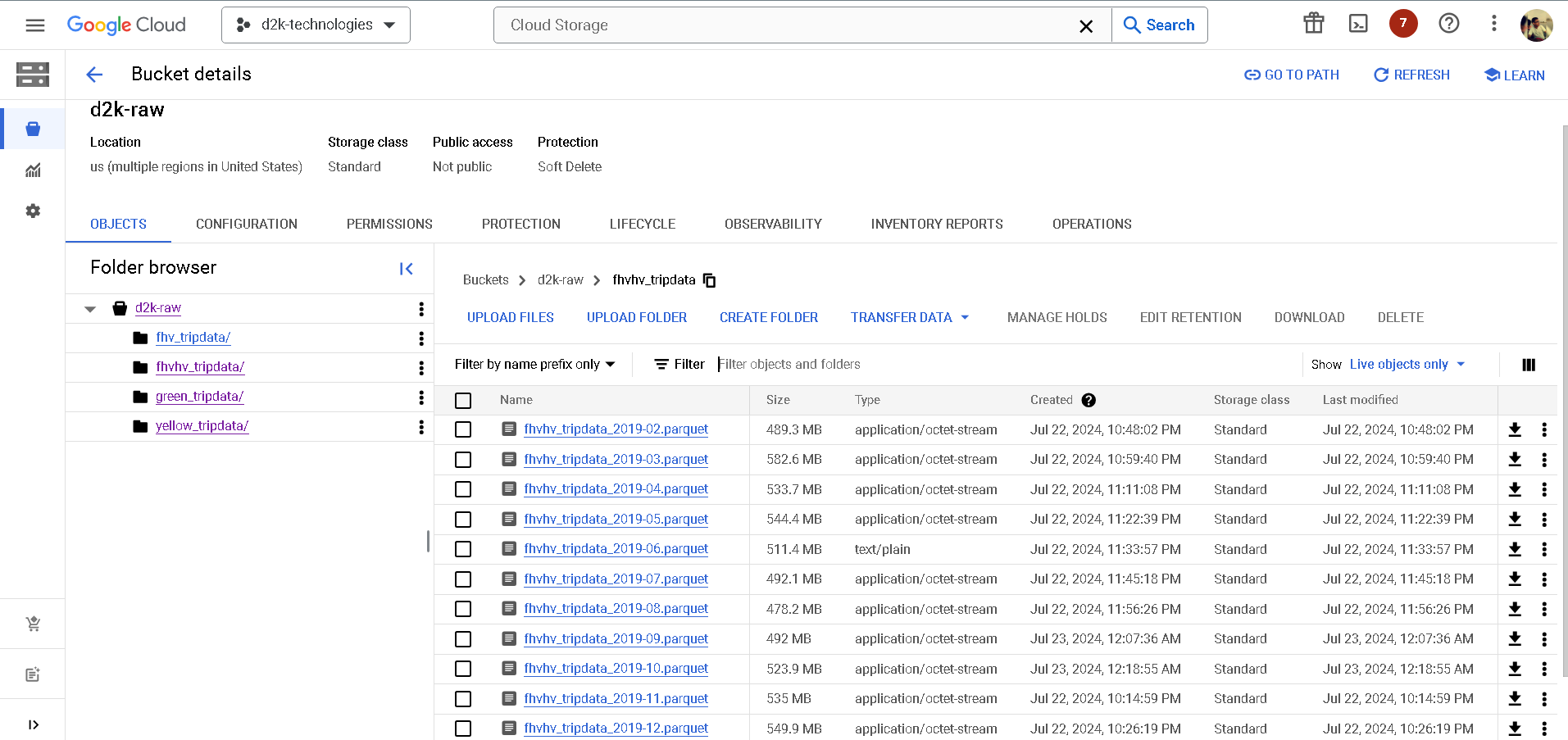
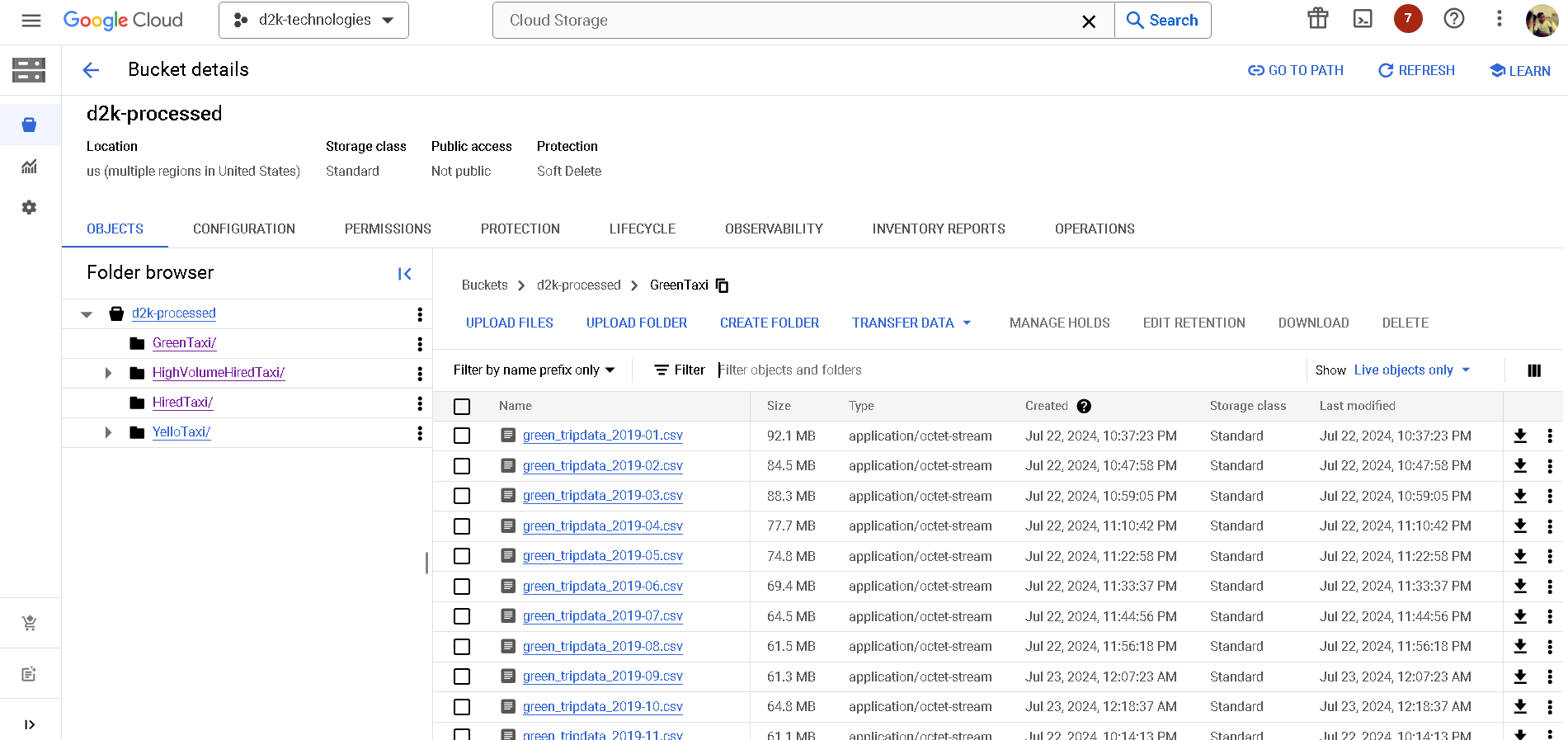
IAM  


Cloud Storage  
  


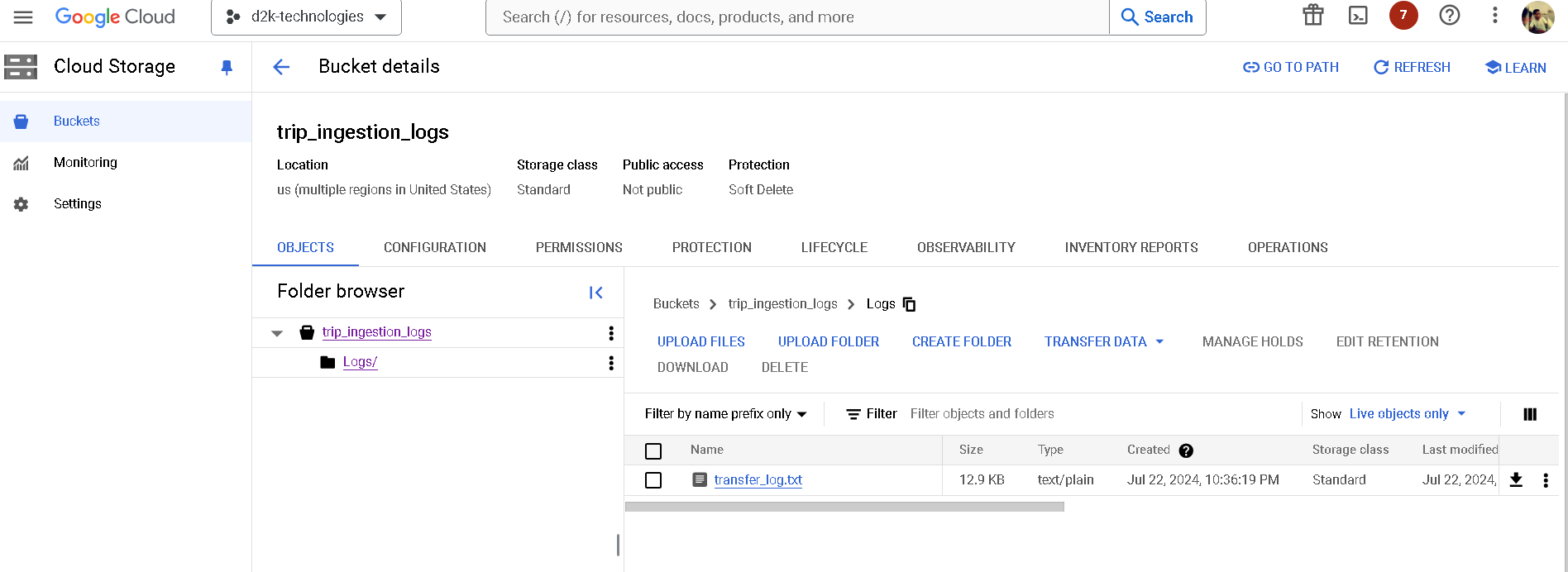
Raw-first-try

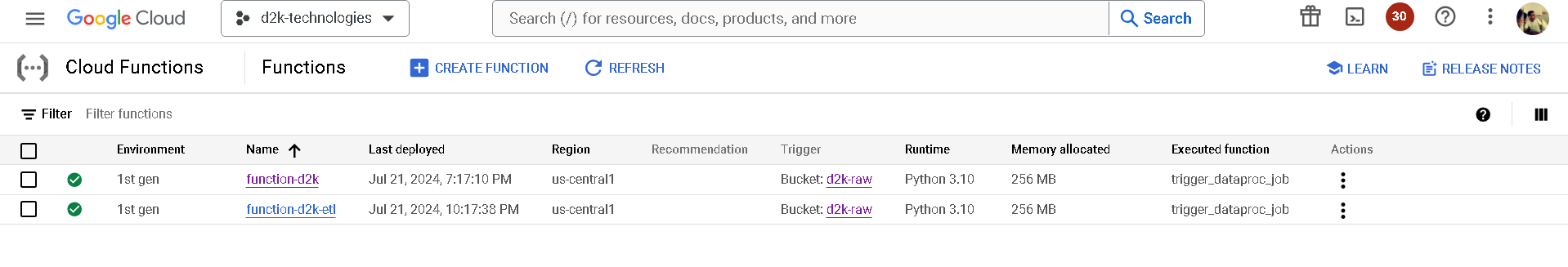


D2k-raw  


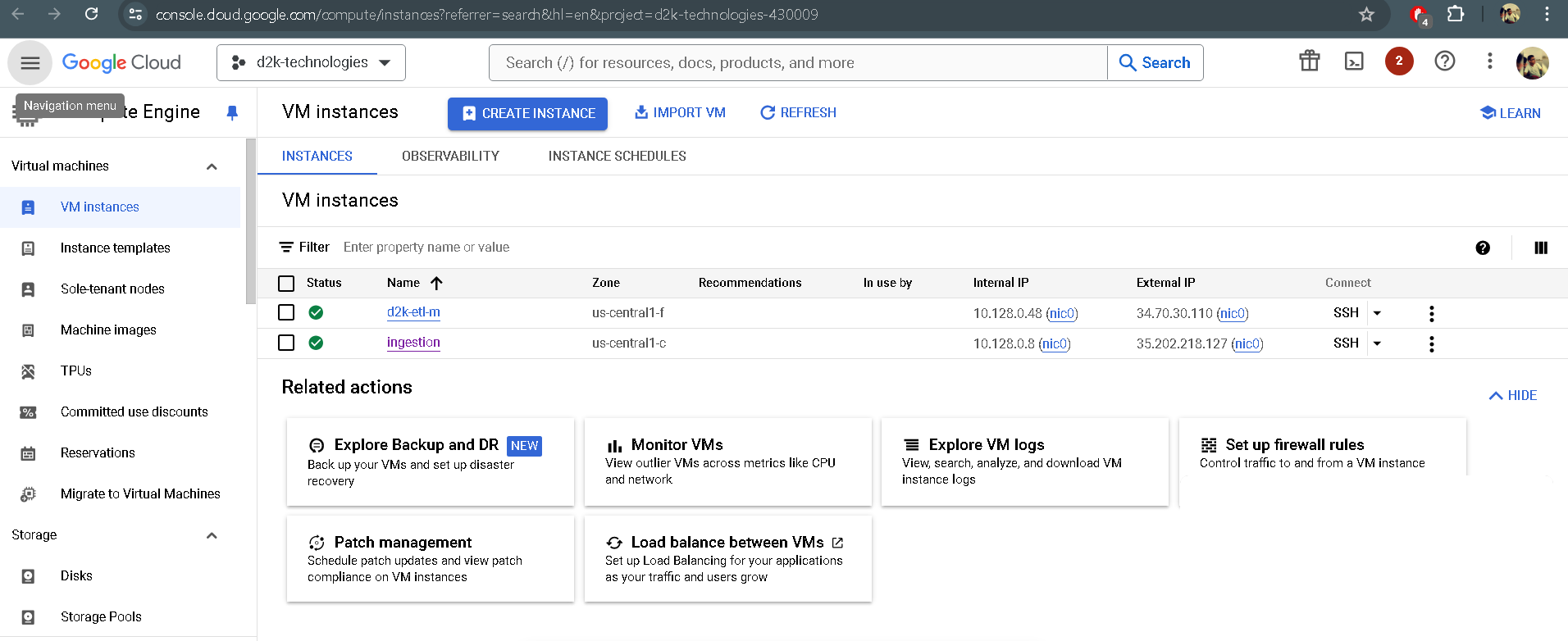
D2k-processed  


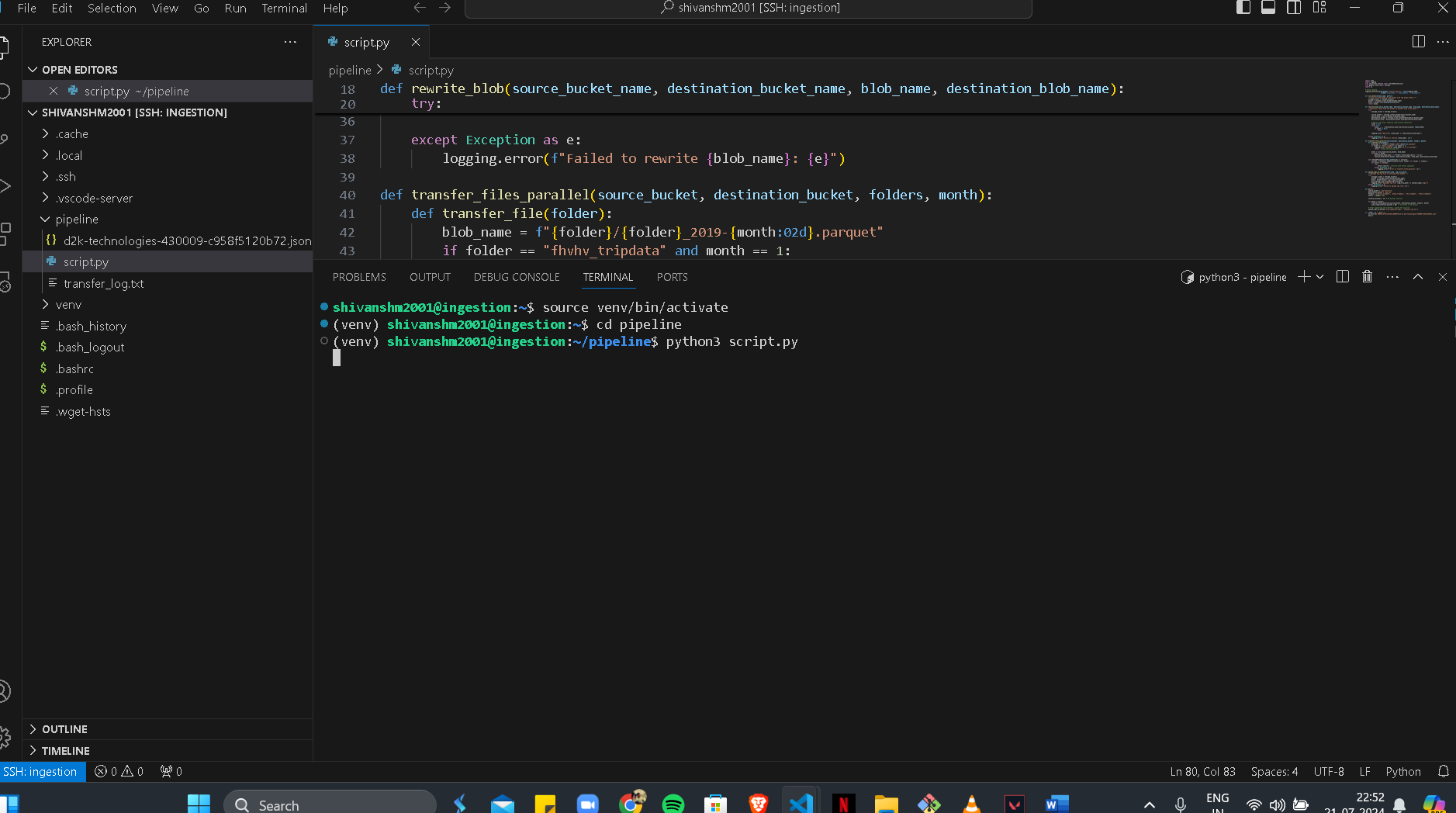
Logs



Cloud Functions  
  


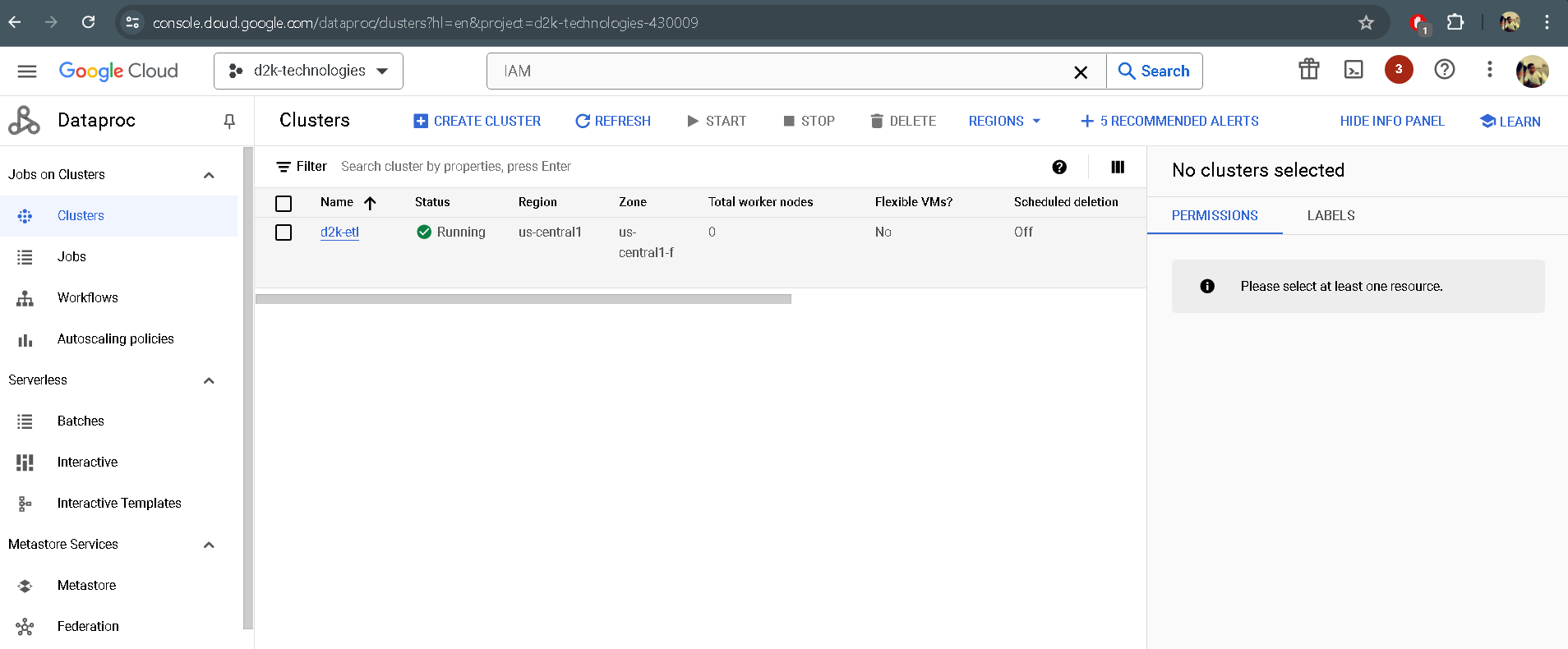
Compute Engine

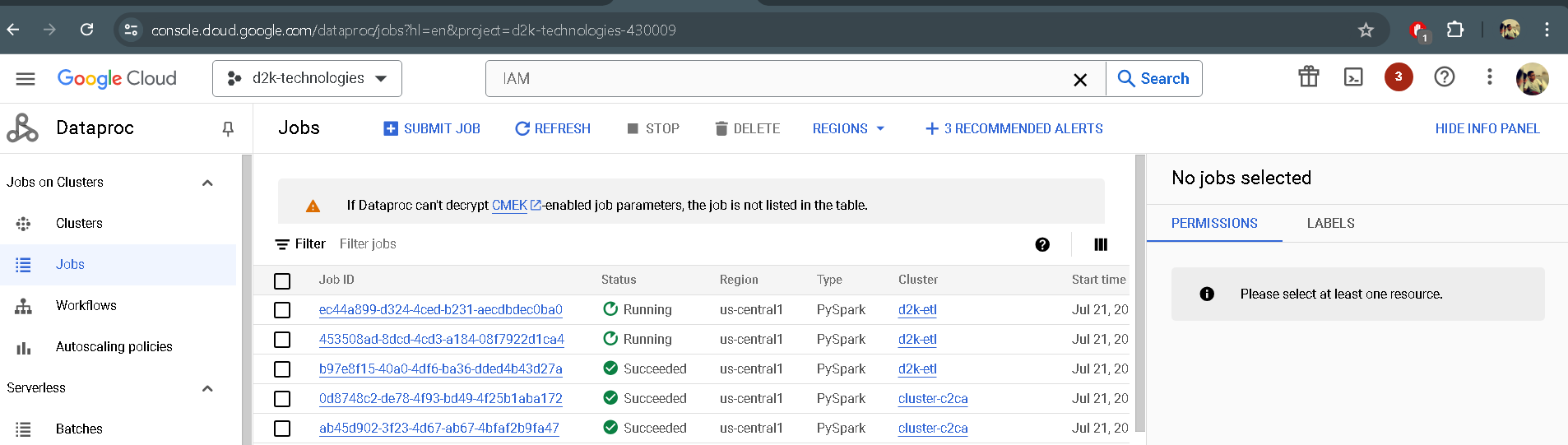


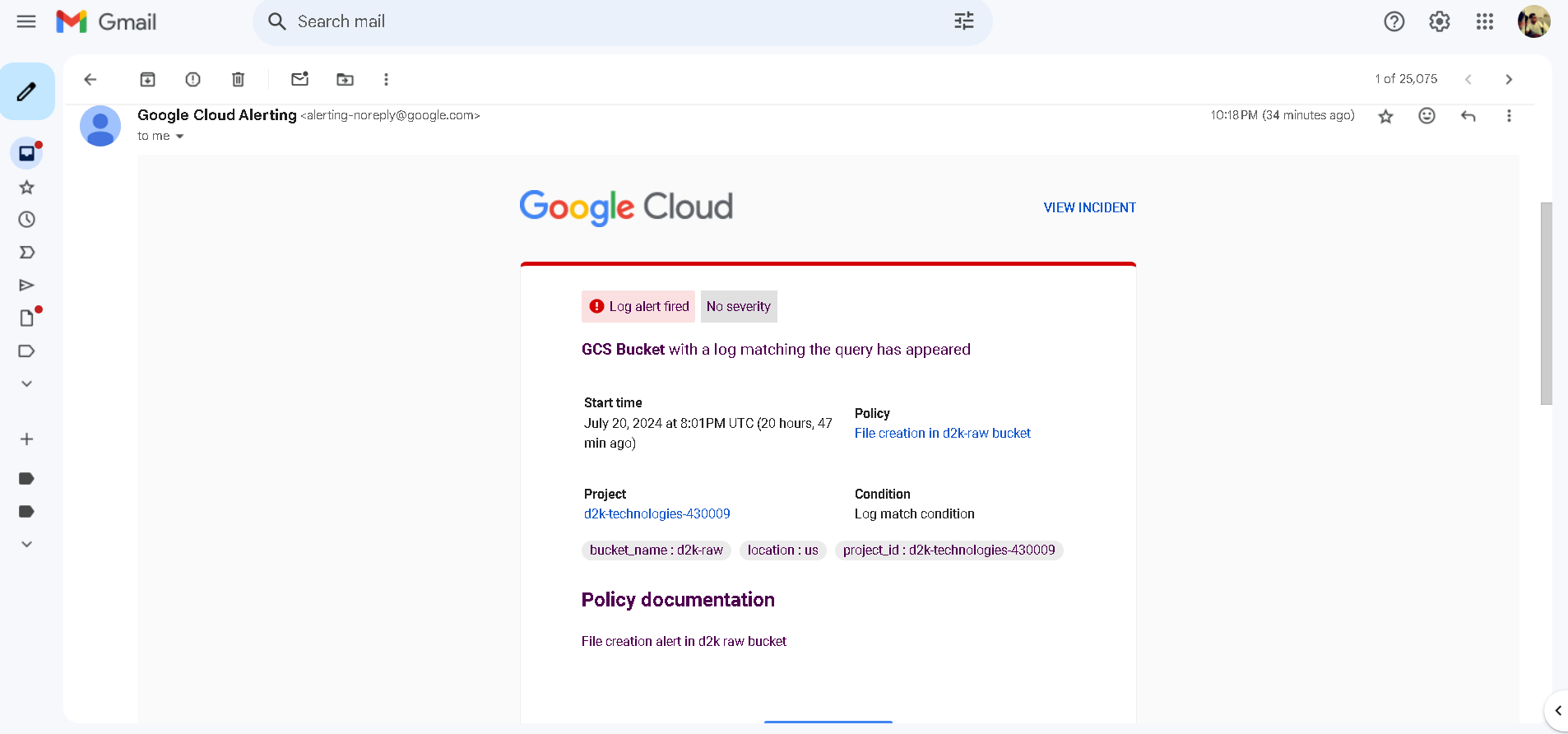
Ingestion ssh:  


Dataproc

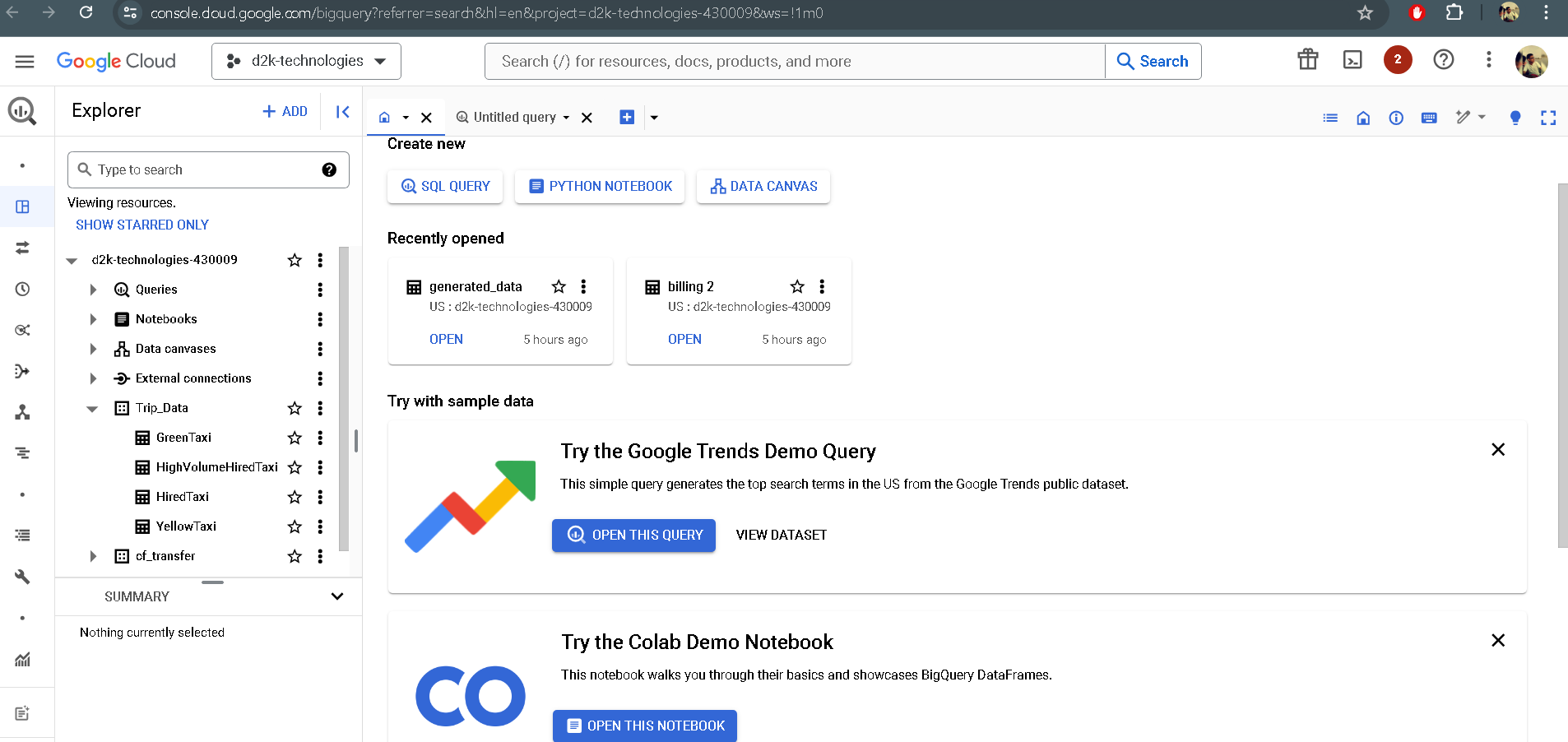
Clusters:



Jobs:  


Cloud Monitoring   
  
Alerts:  


BigQuery:



Queries->  
1. SELECT

DATE(tpep\_pickup\_datetime) AS trip\_date, COUNT(\*) AS total\_trips, AVG(fare\_amount) AS average\_fare

FROM

` d2k-technologies-430009.Trip\_Data.YellowTaxi`

WHERE

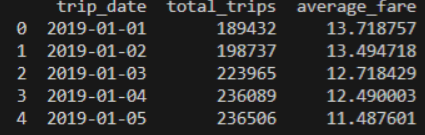
EXTRACT(YEAR FROM tpep\_pickup\_datetime) = 2019

GROUP BY

trip\_date

ORDER BY

trip\_date;



2. SELECT

EXTRACT(HOUR FROM tpep\_pickup\_datetime) AS hour,

COUNT(\*) AS total\_trips

FROM

` d2k-technologies-430009.Trip\_Data.YellowTaxi`

GROUP BY

hour

ORDER BY

total\_trips DESC;

3. SELECT

            passenger\_count,

            AVG(fare\_amount) AS average\_fare,

            COUNT(\*) AS total\_trips

FROM

            ` d2k-technologies-430009.Trip\_Data.YellowTaxi`

   GROUP BY

            passenger\_count

   ORDER BY

            passenger\_count;

4. SELECT

            EXTRACT(MONTH FROM tpep\_pickup\_datetime) AS month,

            COUNT(\*) AS total\_trips,

            AVG(fare\_amount) AS average\_fare

  FROM

            ` d2k-technologies-430009.Trip\_Data.YellowTaxi`

  WHERE

            EXTRACT(YEAR FROM tpep\_pickup\_datetime) = 2019

 GROUP BY

            month

 ORDER BY

            month;