

1. Moving files to bucket

my_bucket_20

Location: us (multiple regions in United States) | Storage class: Standard | Public access: Subject to object ACLs | Protection: None

OBJECTS | CONFIGURATION | PERMISSIONS | PROTECTION | LIFECYCLE | OBSERVABILITY **NEW**

Buckets > my_bucket_20

UPLOAD FILES | UPLOAD FOLDER | CREATE FOLDER | TRANSFER DATA | MANAGE HOLDS | DOWNLOAD | DELETE

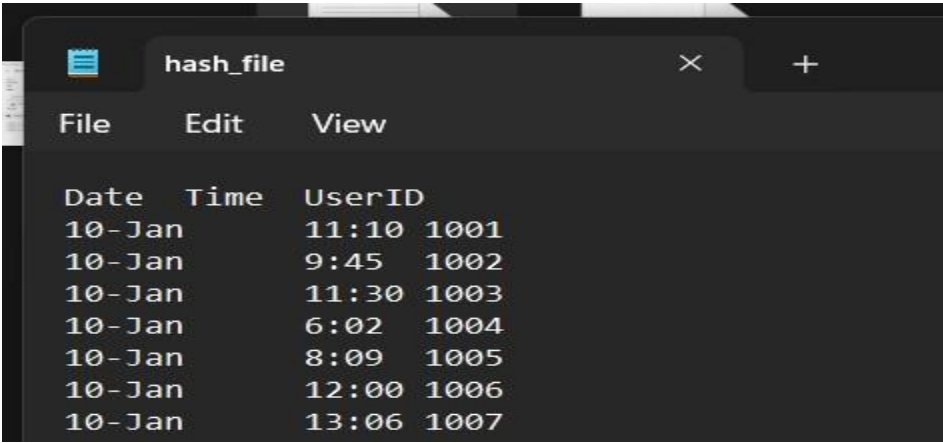
Filter by name prefix only | Filter | Filter objects and folders | Show deleted data

<input type="checkbox"/>	Name	Size	Type	Created	Storage class	Last modified	Public access	
<input type="checkbox"/>	Customer Master Dataframe - Inf...	170 B	text/csv	Apr 13, 2023, 8:36:55 AM	Standard	Apr 13, 2023, 8:36:55 AM	Not public	
<input type="checkbox"/>	Customer Master Dataframe - Up...	35 B	text/csv	Apr 13, 2023, 8:00:30 AM	Standard	Apr 13, 2023, 8:00:40 AM	Public to internet	Copy URL
<input type="checkbox"/>	ga4_code.py	1.4 KB	application/octet-stream	Apr 13, 2023, 8:18:18 AM	Standard	Apr 13, 2023, 8:18:27 AM	Public to internet	Copy URL
<input type="checkbox"/>	ga5.py	1.6 KB	application/octet-stream	Apr 13, 2023, 8:32:54 AM	Standard	Apr 13, 2023, 8:33:06 AM	Public to internet	Copy URL
<input type="checkbox"/>	ga5_output/	—	Folder	—	—	—	—	
<input type="checkbox"/>	hash_file.txt	548 B	text/plain	Apr 13, 2023, 7:07:56 AM	Standard	Apr 13, 2023, 7:08:11 AM	Public to internet	Copy URL
<input type="checkbox"/>	my_code.py	850 B	application/octet-stream	Apr 13, 2023, 7:08:47 AM	Standard	Apr 13, 2023, 7:08:59 AM	Public to internet	Copy URL
<input type="checkbox"/>	output.csv/	—	Folder	—	—	—	—	

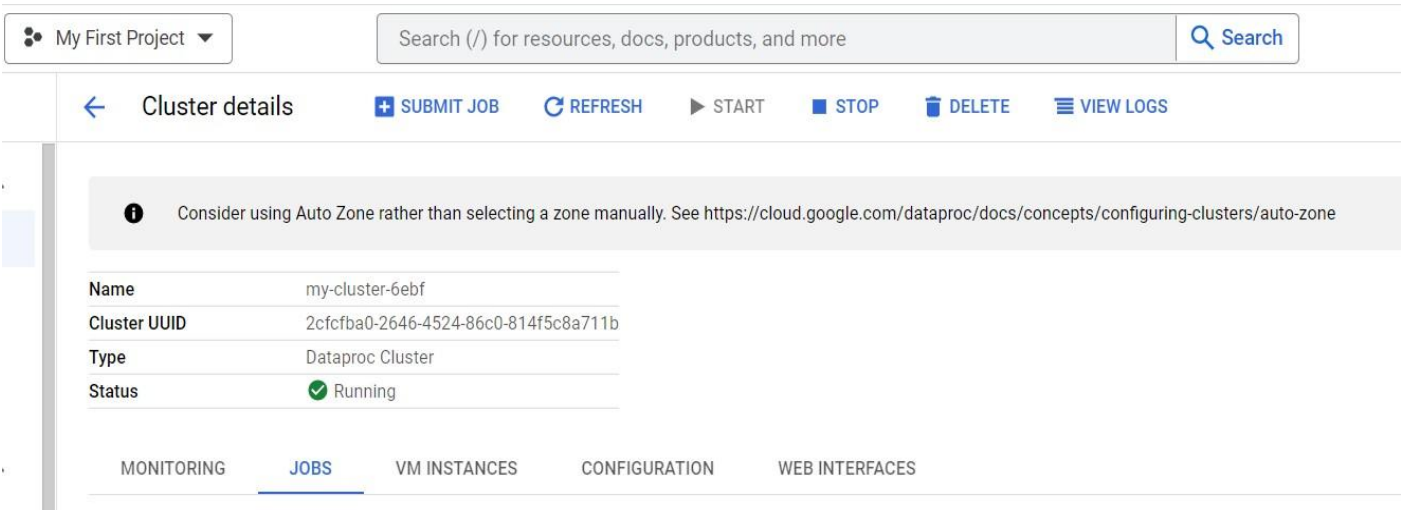
2. Creating Code

```
ga5.py | my_code.py X
D: > Other > #1 Bsc 2 > Codes_big_data > Assignment 3 > my_code.py > ...
1  from pyspark.sql import SparkSession
2
3  def map_time(s):
4      val=('X',1)
5      if s!='Time':
6          final = int(s.replace(":",""))
7          if final >=0 and final<=600:
8              val=("00-06",1)
9          elif final > 600 and final<=1200:
10             val=("06-12",1)
11          elif final > 1200 and final <=1800:
12             val=("12-18",1)
13          elif final>1800 and final <=2400:
14             val=("18-24",1)
15      return val
16
17  spark= SparkSession.builder.appName("myFile").getOrCreate()
18
19  df = spark.read.text("gs://my_bucket_20/hash_file.txt")
20
21  rdd = df.rdd
22
23  sep = rdd.map(lambda x :x[0].split("\t"))
24
25  time = sep.map(lambda x:x[1])
26
27  time_sep = time.map(lambda x: map_time(x))
28
29  sorting = time_sep.filter(lambda x:x[0] != 'X').sortBy(lambda x: x[0])
30
31  groupdata= sorting.reduceByKey(lambda a,b: a+b)
32
33  print(groupdata.collect())
```

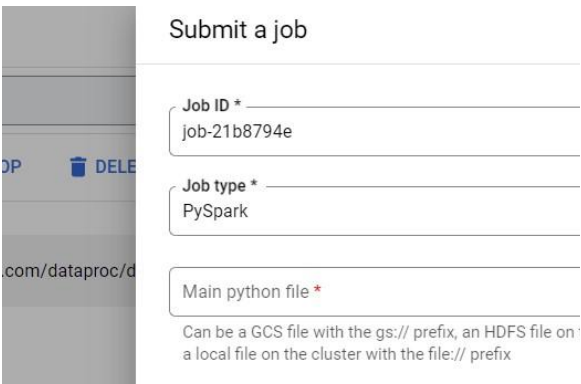
3. The TEXT File



4. Creating Clusters



5. Creating Job



6. The final Output

My First Project

Search (/) for resources, docs, products, and more

Search

Job details

CLONE

DELETE

STOP

REFRESH

Job ID	GA3-job-059ce8cd
Job UUID	c1d7ccb1-e89f-46f6-b88b-cf6f0e372a43
Type	Dataproc Job
Status	✔ Succeeded

MONITORING

CONFIGURATION

The charts below represent the metrics from the cluster this job ran on, scoped to the time that this job was running. It is possible for more than one job to run on a cluster at a time.

Output

LINE WRAP: OFF

Spark jobs take ~60 seconds to initialize resources.

```

23/04/13 03:49:26 INFO org.apache.hadoop.yarn.client.api.impl.FarmClientImpl: Submitted application application_1661356220560_0000
23/04/13 03:49:27 INFO org.apache.hadoop.yarn.client.RMPProxy: Connecting to ResourceManager at my-cluster-6ebf-m/10.128.0.2:8030
23/04/13 03:49:29 INFO com.google.cloud.hadoop.repackaged.gcs.com.google.cloud.hadoop.gcsio.GoogleCloudStorageImpl: Ignoring exception of type GoogleJsonResponseException with message: [{"code": 400, "message": "Invalid range request. Range: bytes=0-1048576. Requested range not satisfiable."}]
23/04/13 03:49:50 INFO org.sparkproject.jetty.server.AbstractConnector: Stopped Spark@54e29800{HTTP/1.1, (http/1.1)}{0.0.0.0:0}

```