

Pan Liu

Repository RUL : https://github.com/Verg-PanLiu/GCP_Homework.git

Welcome, Pan

Get started with Google Cloud

Begin with the basics

Get up and running quickly by checking off common tasks

[GO TO CHECKLIST](#)

Setting up Google Cloud for scalable, production-ready enterprise workloads? Use the [Google Cloud setup checklist](#) designed for administrators.

What's covered

- Reviewing billing, credits, and projects
- Finding products and APIs
- Adding resources to a project
- Understanding and calculating pricing

Top products [VIEW ALL](#)

Compute products

Compute Engine
Made by Google
Scalable, high-performance virtual machines

Other popular compute options

[Kubernetes Engine](#)
One-click Kubernetes clusters, managed by Google

[App Engine](#)
A platform to build web and mobile apps that scale automatically

```
panliu314@cluster-wordcount-m: ~ - Google Chrome
ssh.cloud.google.com/projects/silent-matter-309215/zones/us-central1-b/instances/cluster-wordcount-m?authuser=0&hl=...

Spilled Records=150
Shuffled Maps =7
Failed Shuffles=0
Merged Map outputs=7
GC time elapsed (ms)=1423
CPU time spent (ms)=20300
Physical memory (bytes) snapshot=3206938624
Virtual memory (bytes) snapshot=35548332032
Total committed heap usage (bytes)=2520252416
Peak Map Physical memory (bytes)=553496576
Peak Map Virtual memory (bytes)=4438708224
Peak Reduce Physical memory (bytes)=410374144
Peak Reduce Virtual memory (bytes)=4467945472


Shuffle Errors
BAD_ID=0
CONNECTION=0
IO_ERROR=0
WRONG_LENGTH=0
WRONG_MAP=0
WRONG_REDUCE=0
WordCount$TokenizerMapper$CountersEnum
INPUT_WORDS=95
File Input Format Counters
Bytes Read=614
File Output Format Counters
Bytes Written=679
Took 33 seconds to run the application.
panliu314@cluster-wordcount-m:~$
```




cs1660_wordcount

[OBJECTS](#)[CONFIGURATION](#)[PERMISSIONS](#)[RETENTION](#)[LIFECYCLE](#)

Buckets > cs1660_wordcount > output

[UPLOAD FILES](#)[UPLOAD FOLDER](#)[CREATE FOLDER](#)[MANAGE HOLDS](#)[DOWNLOAD](#)[DELETE](#)

Filter by name prefix only  Filter objects and folders

<input type="checkbox"/>	Name	Size	Type	Created time 	Storage class	Last modified	Public access 	Encryption 
<input type="checkbox"/>	_SUCCESS	0 B	application/octet-stream	Mar 31, 2021, ...	Standard	Mar 31, 20...	Not public	Google-manag
<input type="checkbox"/>	part-r-00000	126 B	application/octet-stream	Mar 31, 2021, ...	Standard	Mar 31, 20...	Not public	Google-manag
<input type="checkbox"/>	part-r-00001	90 B	application/octet-stream	Mar 31, 2021, ...	Standard	Mar 31, 20...	Not public	Google-manag
<input type="checkbox"/>	part-r-00002	69 B	application/octet-stream	Mar 31, 2021, ...	Standard	Mar 31, 20...	Not public	Google-manag
<input type="checkbox"/>	part-r-00003	86 B	application/octet-stream	Mar 31, 2021, ...	Standard	Mar 31, 20...	Not public	Google-manag
<input type="checkbox"/>	part-r-00004	95 B	application/octet-stream	Mar 31, 2021, ...	Standard	Mar 31, 20...	Not public	Google-manag
<input type="checkbox"/>	part-r-00005	105 B	application/octet-stream	Mar 31, 2021, ...	Standard	Mar 31, 20...	Not public	Google-manag
<input type="checkbox"/>	part-r-00006	108 B	application/octet-stream	Mar 31, 2021, ...	Standard	Mar 31, 20...	Not public	Google-manag

```
panliu314@cluster-wordcount-m: ~ - Google Chrome
ssh.cloud.google.com/projects/silent-matter-309215/zones/us-central1-b/instances/cluster-wordcount-m?authuser=0&hl=en_US&proj...
panliu314@cluster-wordcount-m:~$ hadoop dfs -cat gs://cs1660_wordcount/output/*
WARNING: Use of this script to execute dfs is deprecated.
WARNING: Attempting to execute replacement "hdfs dfs" instead.

Alzheimer's      1
DNA              1
Your             1
allergic         1
and              3
deteriorate.     1
do              1
in              1
influence        2
innumerable      1
our              1
some             1
stretches        1
the              4
All             1
cancer           1
degree,          1
how              3
infection,       1
or               1
osteoporosis     1
proteins         1
which            1
with             1
From             1
fend             1
genes           2
humankind        1
instructions     1
reactions,       1
they            1
ability         1
cold,            1
conditions       1
degenerative     1
govern           1
is,              1
```

```
panliu314@cluster-wordcount-m: ~ - Google Chrome
ssh.cloud.google.com/projects/silent-matter-309215/zones/us-central1-b/instances/cluster-wordcount-m?authuser=0&hl=en_US&proj...

govern 1
is, 1
of 1
structure, 1
your 3
containing 1
every 1
function, 1
has 1
known 1
malady 1
nutrients 1
process 1
susceptibility 1
accidents. 1
also 1
bodies 1
disease 2
disorders 1
drugs, 1
from 1
genetic. 1
making 1
something 1
you 1
- 2
They 1
almost 1
are 1
both 1
built 1
common 1
even 1
for 2
function. 1
human 1
off 1
risk 1
that 1
to 7
panliu314@cluster-wordcount-m:~$
```