

Prepare Data for ML APIs on Google Cloud: Challenge Lab

GSP323

Google Cloud Self-Paced Labs

- Challenge labs test your Google Cloud skills through scenario-based tasks without step-by-step guidance, using automated scoring for validation.
- No new concepts are introduced—you'll apply learned techniques like configuration changes and error troubleshooting independently.
- Complete all tasks within the time limit to achieve a perfect 100% score.
- Recommended for students completing the Prepare Data for ML APIs on Google Cloud skill badge course.
- Hands-on objectives include creating Dataproc jobs, Dataflow jobs, and performing two Google ML API tasks.

```
Welcome to Cloud Shell! Type "help" to get started, or type "gemini" to try prompting with Gemini CLI.  
Your Cloud Platform project in this session is set to qwiklabs-gcp-01-0c71c5c6537d.  
Use `gcloud config set project [PROJECT_ID]` to change to a different project.  
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ export REGION="us-east1"  
export PROJECT_ID=$(gcloud config get-value project)  
export PROJECT_NUMBER=$(gcloud projects describe "$PROJECT_ID" --format="json" | jq -r '.projectNumber')  
  
# Set resource names (based on actual lab values)  
export BUCKET_NAME="us-east1"  
export SPEECH_BUCKET="${BUCKET_NAME}-speech"  
export NL_BUCKET="${BUCKET_NAME}-nl"  
export DATASET_NAME="lab_861"  
export TABLE_NAME="customers_441"  
export CLUSTER_NAME="dataproc-cluster-$ (date +%s)"  
  
# Output file names and paths  
export SPEECH_OUTPUT="task3-gcs-636.result"  
export NL_OUTPUT="task4-cnl-759.result"  
  
# Enable all required APIs  
gcloud services enable dataflow.googleapis.com  
gcloud services enable dataproc.googleapis.com  
gcloud services enable speech.googleapis.com  
gcloud services enable language.googleapis.com  
gcloud services enable bigquery.googleapis.com  
gcloud services enable storage.googleapis.com  
gcloud services enable apikeys.googleapis.com  
Your active configuration is: [cloudshell-5558]  
Operation "operations/acat.p2-322436949226-6b32ef13-c857-4d9d-8e8c-05a814a995cd" finished successfully.  
Operation "operations/acat.p2-322436949226-d52d7230-8b94-4c44-85e9-fb7ffd2dd1d4" finished successfully.  
Operation "operations/acat.p2-322436949226-11e25473-887b-4891-8075-220d1306ec66" finished successfully.  
Operation "operations/acat.p2-322436949226-db9c64c1-1e0d-4abd-a968-c9274670a1af" finished successfully.  
Operation "operations/acat.p2-322436949226-948d7cc7-1933-4cbc-a2d5-6fde9edd0a3b" finished successfully.  
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ █
```

Buckets – Cloud Storage – qwiklab X +

https://console.cloud.google.com/storage/browser?cloudshell=true&project=qwiklabs-gcp-01-0c71c5c6537d&prefix=&forceOnBucketsSortingFil... | 3

Free AI Paraphrasin... Transcript of Case St... GCP-LAB Hydra datawarehouse

Google Cloud qwiklabs-gcp-01-0c71c5c6537d Search (/) for resources, docs, products, and more Search

Cloud Storage Buckets + Create Refresh Go to path Learn

Overview Filter buckets View options

Marketplace Release Notes

Name ↑	Created	Location type	Location	Default storage class	Last modified	Public ac
qwiklabs-gcp-01-0c71c5c6537d-mark...	Dec 9, 2025, 6:20:28PM	Region	us-east1	Standard	Dec 9, 2025, 6:20:28PM	Subject to

CLOUD SHELL Terminal (qwiklabs-gcp-01-0c71c5c6537d) + Open Editor

Gemini CLI is available in Cloud Shell terminal! Type gemini to try it. [Learn more](#)

student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)\$ bq mk \$DATASET_NAME
gsutil mb -p \$PROJECT_ID -l \$REGION gs://\$BUCKET_NAME
BigQuery error in mk operation: Dataset 'qwiklabs-gcp-01-0c71c5c6537d:lab_861' already exists.
Creating gs://qwiklabs-gcp-01-0c71c5c6537d-marking/...
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)\$

9 19°C Clear Search

Search

06:20 PM 09-12-2025 ENG IN

Buckets – Cloud Storage – qwikla X +

https://console.cloud.google.com/storage/browser?cloudshell=true&project=qwiklabs-gcp-01-0c71c5c6537d&prefix=&forceOnBucketsSortingFil... | 3

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Google Cloud qwiklabs-gcp-01-0c71c5c6537d Search (/) for resources, docs, products, and more Search

CLOUD SHELL Terminal (qwiklabs-gcp-01-0c71c5c6537d) + Open Editor

Gemini CLI is available in Cloud Shell terminal! Type gemini to try it. [Learn more](#)

Don't show again Dismiss

```
export PROJECT_ID=$(gcloud config get-value project)
export PROJECT_NUMBER=$(gcloud projects describe "$PROJECT_ID" --format="json" | jq -r '.projectNumber')

student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ bq mk $DATASET_NAME
gsutil mb -p $PROJECT_ID -l $REGION gs://$BUCKET_NAME
BigQuery error in mk operation: Dataset 'qwiklabs-gcp-01-0c71c5c6537d:lab_861' already exists.
Creating gs://qwiklabs-gcp-01-0c71c5c6537d-marking/...
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ gsutil cp gs://cloud-training/gsp323/lab.csv .
gsutil cp gs://cloud-training/gsp323/lab.schema .
Copying gs://cloud-training/gsp323/lab.csv...
\ [1 files] [ 2.6 MiB/ 2.6 MiB]
Operation completed over 1 objects/2.6 MiB.
Copying gs://cloud-training/gsp323/lab.schema...
/ [1 files] [ 566.0 B/ 566.0 B]
Operation completed over 1 objects/566.0 B.
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ cat > lab.schema << 'EOF'
[
    {"type": "STRING", "name": "guid"}, 
    {"type": "BOOLEAN", "name": "isActive"}, 
    {"type": "STRING", "name": "firstname"}, 
    {"type": "STRING", "name": "surname"}, 
    {"type": "STRING", "name": "company"}, 
    {"type": "STRING", "name": "email"}, 
    {"type": "STRING", "name": "phone"}, 
    {"type": "STRING", "name": "address"}, 
    {"type": "STRING", "name": "about"}, 
    {"type": "TIMESTAMP", "name": "registered"}, 
    {"type": "FLOAT", "name": "latitude"}, 
    {"type": "FLOAT", "name": "longitude"} 
]
EOF

bq mk --table $DATASET_NAME.$TABLE_NAME lab.schema
Table 'qwiklabs-gcp-01-0c71c5c6537d:lab_861.customers_441' successfully created.
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ cloud dataflow jobs run dataflow-lab-job \
```

9 19°C Clear

Search

1 ENG IN 06:22 PM 09-12-2025

Jobs - Cloud Run - qwiklabs-gcp X +

https://console.cloud.google.com/run/jobs?referrer=search&cloudshell=true&project=qwiklabs-gcp-01-0c71c5c6537d | 3

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Google Cloud Job X Search

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Gemini CLI is available in Cloud Shell terminal! Type gemini to try it. [Learn more](#)

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```
bq mk --table $DATASET_NAME.$TABLE_NAME lab.schema
Table 'qwiklabs-gcp-01-0c71c5c6537d:lab_861.customers_441' successfully created.
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ cloud dataflow jobs run dataflow-lab-job \
--gcs-location gs://dataflow-templates-$REGION/latest/GCS_Text_to_BigQuery \
--region $REGION \
--worker-machine-type e2-standard-2 \
--staging-location gs://$BUCKET_NAME/temp \
--parameters \
"inputFilePattern=gs://cloud-training/gsp323/lab.csv, \
outputTable=$PROJECT_ID:$DATASET_NAME.$TABLE_NAME, \
bigQueryLoadingTemporaryDirectory=gs://$BUCKET_NAME/bigquery_temp, \
JSONPath=gs://cloud-training/gsp323/lab.schema, \
javascriptTextTransformGcsPath=gs://cloud-training/gsp323/lab.js, \
javascriptTextTransformFunctionName=transform"
-bash: cloud: command not found
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ gcloud dataflow jobs run dataflow-lab-job \
--gcs-location gs://dataflow-templates-$REGION/latest/GCS_Text_to_BigQuery \
--region $REGION \
--worker-machine-type e2-standard-2 \
--staging-location gs://$BUCKET_NAME/temp \
--parameters \
"inputFilePattern=gs://cloud-training/gsp323/lab.csv, \
outputTable=$PROJECT_ID:$DATASET_NAME.$TABLE_NAME, \
bigQueryLoadingTemporaryDirectory=gs://$BUCKET_NAME/bigquery_temp, \
JSONPath=gs://cloud-training/gsp323/lab.schema, \
javascriptTextTransformGcsPath=gs://cloud-training/gsp323/lab.js, \
javascriptTextTransformFunctionName=transform"
createTime: '2025-12-09T12:52:43.154467Z'
currentStateTime: '1970-01-01T00:00:00Z'
id: 2025-12-09_04_52_41-12626235425949542901
location: us-east1
name: dataflow-lab-job
projectId: qwiklabs-gcp-01-0c71c5c6537d
startTime: '2025-12-09T12:52:43.154467Z'
type: JOB_TYPE_BATCH
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$
```

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Search

1 ENG IN 06:23 PM 09-12-2025

Jobs – Cloud Run – qwiklabs-gcp

https://console.cloud.google.com/run/jobs?referrer=search&cloudshell=true&project=qwiklabs-gcp-01-0c71c5c6537d

Cloud Run

Overview

Services

Jobs

Worker pools

Release Notes

CLOUD SHELL

Terminal (qwiklabs-gcp-01-0c71c5c6537d)

Gemini CLI is available in Cloud Shell terminal! Type gemini to try it.

```
--parameters \
"inputFilePattern=gs://cloud-training/gsp323/lab.csv, \
outputTable=$PROJECT_ID:$DATASET_NAME.$TABLE_NAME, \
bigQueryLoadingTemporaryDirectory=gs://$BUCKET_NAME/bigquery_temp, \
JSONPath=gs://cloud-training/gsp323/lab.schema, \
javascriptTextTransformGcsPath=gs://cloud-training/gsp323/lab.js, \
javascriptTextTransformFunctionName=transform"
createTime: '2025-12-09T12:52:43.154467z'
currentStateTime: '1970-01-01T00:00:00z'
id: 2025-12-09_04_52_41-12626235425949542901
location: us-east1
name: dataflow-lab-job
projectId: qwiklabs-gcp-01-0c71c5c6537d
startTime: '2025-12-09T12:52:43.154467z'
type: JOB_TYPE_BATCH
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d) $
```

https://console.cloud.google.com/dataflow/jobs?referrer=search&cloudshell=true&project=qwiklabs-gcp-01-0c71c5c6537d

Jobs and companies

Search: jobs and companies

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- Jobs Product page · Dataflow

Documentation & tutorials

- Create jobs | Cloud Run Documentation · This page describes how to create and update Cloud Run jobs from an existin...
- Job | BigQuery

ENG IN

06:24 PM

09-12-2025

Jobs – Dataflow – qwiklabs-gcp-01-0c71c5c6537d +

https://console.cloud.google.com/dataflow/jobs?referrer=search&cloudshell=true&project=qwiklabs-gcp-01-0c71c5c6537d | 3

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Google Cloud qwiklabs-gcp-01-0c71c5c6537d Job X Search

Dataflow / Jobs

Overview Monitoring Jobs Pipelines Workbench Release Notes

Jobs Create Job From Template Create Job From Builder Enable sorting Refresh Manage Learn

Running Archived Filter Filter jobs

Name	Type	End time	Elapsed time	Start time	Status	SDK version	ID	Region	Insights
dataflow-lab-job	Batch		1 min 47 sec	Dec 9, 2025, 6:22:43 PM	Running	2.69.0	2025-12-09_04_52_41-12626235425949542901	us-east1	

CLOUD SHELL Terminal (qwiklabs-gcp-01-0c71c5c6537d) + Open Editor

Gemini CLI is available in Cloud Shell terminal! Type gemini to try it. [Learn more](#)

--parameters \
"inputFilePattern=gs://cloud-training/gsp323/lab.csv,\noutputTable=\$PROJECT_ID:\$DATASET_NAME.\$TABLE_NAME,\nbigQueryLoadingTemporaryDirectory=gs://\$BUCKET_NAME/bigquery_temp,\nJSONPath=gs://cloud-training/gsp323/lab.schema,\njavascriptTextTransformGcsPath=gs://cloud-training/gsp323/lab.js,\njavascriptTextTransformFunctionName=transform"\ncreateTime: '2025-12-09T12:52:43.154467Z'\ncurrentStateTime: '1970-01-01T00:00:00Z'\nid: 2025-12-09_04_52_41-12626235425949542901\nlocation: us-east1\nname: dataflow-lab-job\nprojectId: qwiklabs-gcp-01-0c71c5c6537d\nstartTime: '2025-12-09T12:52:43.154467Z'\ntype: JOB_TYPE_BATCH\nstudent_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d) \$

https://console.cloud.google.com/dataflow/createjob?cloudshell=true&project=qwiklabs-gcp-01-0c71c5c6537d

9 19°C Clear Search

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Jobs - Dataflow - qwiklabs-gcp-01-0c71c5c6537d +

https://console.cloud.google.com/dataflow/jobs?referrer=search&cloudshell=true&project=qwiklabs-gcp-01-0c71c5c6537d | 3

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Google Cloud Job X Search Dataflow / Jobs

Release Notes Jobs Create Job From Template Create Job From Builder

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Enable sorting Refresh Manage Learn

Open Editor

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Don't show again Dismiss

```
JSONPath=gs://cloud-training/gsp323/lab.schema,\\njavascriptTextTransformGcsPath=gs://cloud-training/gsp323/lab.js,\\njavascriptTextTransformFunctionName=transform\\nbash: cloud: command not found\\nstudent_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ gcloud dataflow jobs run dataflow-lab-job \\n--gcs-location gs://dataflow-templates-$REGION/latest/GCS_Text_to_BigQuery \\n--region $REGION \\n--worker-machine-type e2-standard-2 \\n--staging-location gs://$BUCKET_NAME/temp \\n--parameters \\n\"inputFilePattern=gs://cloud-training/gsp323/lab.csv,\\noutputTable=$PROJECT_ID:$DATASET_NAME.$TABLE_NAME,\\nbigQueryLoadingTemporaryDirectory=gs://$BUCKET_NAME/bigquery_temp,\\nJSONPath=gs://cloud-training/gsp323/lab.schema,\\njavascriptTextTransformGcsPath=gs://cloud-training/gsp323/lab.js,\\njavascriptTextTransformFunctionName=transform\"\\ncreateTime: '2025-12-09T12:52:43.154467Z'\\ncurrentStateTime: '1970-01-01T00:00:00Z'\\nid: 2025-12-09_04_52_41-12626235425949542901\\nlocation: us-east1\\nname: dataflow-lab-job\\nprojectId: qwiklabs-gcp-01-0c71c5c6537d\\nstartTime: '2025-12-09T12:52:43.154467Z'\\ntype: JOB_TYPE_BATCH\\nstudent_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ gcloud dataflow jobs list --region=$REGION --filter="name:dataflow-lab-job"\\nJOB_ID: 2025-12-09_04_52_41-12626235425949542901\\nNAME: dataflow-lab-job\\nTYPE: Batch\\nCREATION_TIME: 2025-12-09 12:52:43\\nSTATE: Running\\nREGION: us-east1\\nstudent_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$
```

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Google Skills Partner

What do you want to learn today?

Dashboard Catalog Paths Collections

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25/100 GSP323 Overview Setup Challenge scenario Task 1. Run a simple Dataflow job Task 2. Run a simple Dataproc job Task 3. Use the Google Cloud Speech-to-Text API Task 4. Use the Cloud Natural Language API Congratulations!

Prepare Data for ML APIs on Google Cloud > Prepare Data for ML APIs on Google Cloud: Challenge Lab

Contents

Prepare Data for ML APIs on Google Cloud: Challen

Open Google Cloud console

Username: student-01-10661ce6b35f

Password: K7qmR0vDDLNk

Project ID: quicklabs-gcp-01-0c71c5cf

BigQuery Dataset Name: lab_861

Cloud Storage Bucket Name: quicklabs-gcp-01-0c71c5cf

Region: us-east1

Task 2. Run a simple Dataproc job

In this task, you run an example Spark job using Dataproc.

Before you run the job: Log into one of the cluster nodes and copy the `data.txt` file into hdfs using the command `hdfs dfs -cp gs://spl/gsp323/data.txt /data.txt`.

Expand the hint below for defining a Dataproc job

Click here for hint!

Example Dataproc job is shown below:

Submit a job

Job ID * job-21402a4b

Region * us-central1

Next >

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Search

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Jobs - Dataflow - qwiklabs-gcp-01-0c71c5c6537d +

https://console.cloud.google.com/dataflow/jobs?referrer=search&cloudshell=true&project=qwiklabs-gcp-01-0c71c5c6537d | 3

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```
JSONPath=gs://cloud-training/gsp323/lab.schema,\\
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ gcloud projects add-iam-policy-binding $PROJECT_ID \
--member "serviceAccount:$PROJECT_NUMBER-compute@developer.gserviceaccount.com" \
--role "roles/storage.admin"

export USER_EMAIL=$(gcloud config get-value account)
gcloud projects add-iam-policy-binding $PROJECT_ID \
--member=user:$USER_EMAIL \
--role=roles/dataproc.editor

gcloud projects add-iam-policy-binding $PROJECT_ID \
--member=user:$USER_EMAIL \
--role=roles/storage.objectViewer
Updated IAM policy for project [qwiklabs-gcp-01-0c71c5c6537d].
bindings:
- members:
  - serviceAccount:qwiklabs-gcp-01-0c71c5c6537d@qwiklabs-gcp-01-0c71c5c6537d.iam.gserviceaccount.com
    role: roles/bigquery.admin
- members:
  - serviceAccount:322436949226@cloudbuild.gserviceaccount.com
    role: roles/cloudbuild.builds.builder
- members:
  - serviceAccount:service-322436949226@gcp-sa-cloudbuild.iam.gserviceaccount.com
    role: roles/cloudbuild.serviceAgent
- members:
  - serviceAccount:service-322436949226@compute-system.iam.gserviceaccount.com
    role: roles/compute.serviceAgent
- members:
  - serviceAccount:service-322436949226@dataflow-service-producer-prod.iam.gserviceaccount.com
    role: roles/dataflow.serviceAgent
- members:
  - serviceAccount:service-322436949226@dataproc-accounts.iam.gserviceaccount.com
    role: roles/dataproc.serviceAgent
- members:
  - serviceAccount:322436949226-compute@developer.gserviceaccount.com
  - serviceAccount:322436949226@cloudservices.gserviceaccount.com
```

9 18°C Clear

Search

06:31 PM 09-12-2025 ENG IN

Jobs - Dataflow - qwiklabs-gcp- +

https://console.cloud.google.com/dataflow/jobs?referrer=search&cloudshell=true&project=qwiklabs-gcp-01-0c71c5c6537d | 3

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Gemini CLI is available in Cloud Shell terminal! Type gemini to try it. [Learn more](#)

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```
- serviceAccount:service-322436949226@gcp-sa-cloudbuild.iam.gserviceaccount.com
role: roles/cloudbuild.serviceAgent
- members:
- serviceAccount:service-322436949226@compute-system.iam.gserviceaccount.com
role: roles/compute.serviceAgent
- members:
- serviceAccount:service-322436949226@dataflow-service-producer-prod.iam.gserviceaccount.com
role: roles/dataflow.serviceAgent
- members:
- user:student-01-10661ce6b35f@qwiklabs.net
role: roles/dataproc.editor
- members:
- serviceAccount:service-322436949226@dataproc-accounts.iam.gserviceaccount.com
role: roles/dataproc.serviceAgent
- members:
- serviceAccount:322436949226-compute@developer.gserviceaccount.com
- serviceAccount:322436949226@cloudservices.gserviceaccount.com
role: roles/editor
- members:
- serviceAccount:admiral@qwiklabs-services-prod.iam.gserviceaccount.com
- serviceAccount:qwiklabs-gcp-01-0c71c5c6537d@qwiklabs-gcp-01-0c71c5c6537d.iam.gserviceaccount.com
- user:student-01-10661ce6b35f@qwiklabs.net
role: roles/owner
- members:
- serviceAccount:322436949226-compute@developer.gserviceaccount.com
- serviceAccount:qwiklabs-gcp-01-0c71c5c6537d@qwiklabs-gcp-01-0c71c5c6537d.iam.gserviceaccount.com
role: roles/storage.admin
- members:
- user:student-01-10661ce6b35f@qwiklabs.net
role: roles/storage.objectViewer
- members:
- user:student-01-10661ce6b35f@qwiklabs.net
role: roles/viewer
etag: BwZPhIFD2YU=
version: 1
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d) $
```

9 18°C Clear Search

ENG IN 06:31 PM 09-12-2025

Jobs - Dataflow - qwiklabs-gcp- +

https://console.cloud.google.com/dataflow/jobs?referrer=search&cloudshell=true&project=qwiklabs-gcp-01-0c71c5c6537d | 3

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Google Cloud Job X Search

CLOUD SHELL Terminal (qwiklabs-gcp-01-0c71c5c6537d) + Open Editor

Gemini CLI is available in Cloud Shell terminal! Type gemini to try it. [Learn more](#)

Don't show again Dismiss

```
- serviceAccount:service-322436949226@dataflow-service-producer-prod.iam.gserviceaccount.com
role: roles/dataflow.serviceAgent
- members:
- user:student-01-10661ce6b35f@qwiklabs.net
role: roles/dataproc.editor
- members:
- serviceAccount:service-322436949226@dataproc-accounts.iam.gserviceaccount.com
role: roles/dataproc.serviceAgent
- members:
- serviceAccount:322436949226-compute@developer.gserviceaccount.com
- serviceAccount:322436949226@cloudservices.gserviceaccount.com
role: roles/editor
- members:
- serviceAccount:admiral@qwiklabs-services-prod.iam.gserviceaccount.com
- serviceAccount:qwiklabs-gcp-01-0c71c5c6537d@qwiklabs-gcp-01-0c71c5c6537d.iam.gserviceaccount.com
- user:student-01-10661ce6b35f@qwiklabs.net
role: roles/owner
- members:
- serviceAccount:322436949226-compute@developer.gserviceaccount.com
- serviceAccount:qwiklabs-gcp-01-0c71c5c6537d@qwiklabs-gcp-01-0c71c5c6537d.iam.gserviceaccount.com
role: roles/storage.admin
- members:
- user:student-01-10661ce6b35f@qwiklabs.net
role: roles/storage.objectViewer
- members:
- user:student-01-10661ce6b35f@qwiklabs.net
role: roles/viewer
etag: Bw2FhIFD2YU=
version: 1
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ gcloud compute networks subnets update default \
--region $REGION \
--enable-private-ip-google-access
Updated [https://www.googleapis.com/compute/v1/projects/qwiklabs-gcp-01-0c71c5c6537d/regions/us-east1/subnetworks/default].
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$
```

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Jobs - Dataflow - qwiklabs-gcp- +

https://console.cloud.google.com/dataflow/jobs?referrer=search&cloudshell=true&project=qwiklabs-gcp-01-0c71c5c6537d | 3

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```
role: roles/storage.objectViewer
- members:
  - user:student-01-10661ce6b35f@qwiklabs.net
  role: roles/viewer
etag: BwZFhIFD2YU=
version: 1
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ gcloud compute networks subnets update default \
  --region $REGION \
  --enable-private-ip-google-access
Updated [https://www.googleapis.com/compute/v1/projects/qwiklabs-gcp-01-0c71c5c6537d/regions/us-east1/subnetworks/default].
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ gcloud dataproc clusters create $CLUSTER_NAME \
  --enable-component-gateway \
  --region $REGION \
  --master-machine-type e2-standard-2 \
  --master-boot-disk-type pd-balanced \
  --master-boot-disk-size 100 \
  --num-workers 2 \
  --worker-machine-type e2-standard-2 \
  --worker-boot-disk-type pd-balanced \
  --worker-boot-disk-size 100 \
  --image-version 2.2-debian12 \
  --project $PROJECT_ID
Waiting on operation [projects/qwiklabs-gcp-01-0c71c5c6537d/regions/us-east1/operations/0c2e497b-5904-37ac-aiae-d72aecdf048c].
Waiting for cluster creation operation...
WARNING: The firewall rules for specified network or subnetwork would allow ingress traffic from 0.0.0.0/0, which could be a security risk.
Waiting for cluster creation operation...done.
Created [https://dataproc.googleapis.com/v1/projects/qwiklabs-gcp-01-0c71c5c6537d/regions/us-east1/clusters/dataproc-cluster-1765284568] Cluster placed in zone [us-east1-c].
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$
```

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Search

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```
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ VM_NAME=$(gcloud compute instances list --project="$PROJECT_ID" --format=json | jq -r '.[0].name') ZONE=$(gcloud compute instances list --filter="name=$VM_NAME" --format 'csv[no-heading](zone)') # Copy data file to HDFS CLUSTER_ZONE=$(gcloud dataproc clusters describe $CLUSTER_NAME --region=$REGION --format="value(config.gceClusterConfig.zoneUri)" | awk -F/ '{print $NF}') CLUSTER_NETWORK=$(gcloud dataproc clusters describe $CLUSTER_NAME --region=$REGION --format="value(config.gceClusterConfig.networkUri)" | awk -F/ '{print $NF}') gcloud compute ssh $CLUSTER_NAME-m --zone=$CLUSTER_ZONE --command="hdfs dfs -cp gs://splz/gsp323/data.txt /data.txt" WARNING: The private SSH key file for gcloud does not exist. WARNING: The public SSH key file for gcloud does not exist. WARNING: You do not have an SSH key for gcloud. WARNING: SSH keygen will be executed to generate a key. This tool needs to create the directory [/home/student_01_10661ce6b35f/.ssh] before being able to generate SSH keys.
```

Do you want to continue (Y/n)? Y

```
Generating public/private rsa key pair.  
Enter passphrase (empty for no passphrase):  
Enter same passphrase again:  
Your identification has been saved in /home/student_01_10661ce6b35f/.ssh/google_compute_engine  
Your public key has been saved in /home/student_01_10661ce6b35f/.ssh/google_compute_engine.pub  
The key fingerprint is:  
SHA256:f15QSE+hRxJZEW8S/IbNIIsC5DjhjzJTiEyXlxSo60g student_01_10661ce6b35f@cs-719555118884-default  
The key's randomart image is:  
+---[RSA 3072]---+  
| o...=oo +=X= |  
| o.+ + . ..o. |  
| . o = o +. |  
| . + * + + +.|  
| . = S . . * +|  
| E . . . o = |  
| . o . . o . o |  
| . . o . . |  
+---[SHA256]---+  
External IP address was not found; defaulting to using IAP tunneling.  
WARNING:
```

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```
Do you want to continue (Y/n)? Y

Generating public/private rsa key pair.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/student_01_10661ce6b35f/.ssh/google_compute_engine
Your public key has been saved in /home/student_01_10661ce6b35f/.ssh/google_compute_engine.pub
The key fingerprint is:
SHA256:f15QSE+hRxJZEWH8S/IbNIIsC5DhjhzJTiEyXlxSo60g student_01_10661ce6b35f@cs-719555118884-default
The key's randomart image is:
+---[RSA 3072]---+
| o...=oo  +=X=
| o.+ + . ..o.
| . o = o +.
| . + * + + +.
| . = S . . * +
| E . . . o =
| . o . o . o|
| . . o . .
| .
+---[SHA256]---+
External IP address was not found; defaulting to using IAP tunneling.
WARNING:

To increase the performance of the tunnel, consider installing NumPy. For instructions,
please see https://cloud.google.com/iap/docs/using-tcp-forwarding#increasing_the_tcp_upload_bandwidth

Warning: Permanently added 'compute.2038259475941794588' (ED25519) to the list of known hosts.
2025-12-09 13:11:50,720 INFO impl.MetricsConfig: Loaded properties from hadoop-metrics2.properties
2025-12-09 13:11:50,853 INFO impl.MetricsSystemImpl: Scheduled Metric snapshot period at 10 second(s).
2025-12-09 13:11:50,853 INFO impl.MetricsSystemImpl: google-hadoop-file-system metrics system started
Dec 09, 2025 1:11:52 PM com.google.cloud.hadoop.repackaged.gcs.com.google.cloud.hadoop.util.RequestTracker stopTracking
INFO: [gccl-invocation-id/b0f5c09c]: Detected high latency for [url=https://storage.googleapis.com/storage/v1/b/spls/o?delimiter=&fields=items(bucket,name,timeCreated,updated,generation,metaGeneration,size,contentType,contentEncoding,md5Hash,crc32c,metadata),prefixes,nextPageToken&includeFoldersAsPrefixes=false&includeTrailingDelimiter=true&maxResults=1&prefix=gsp323/data.txt; invocationId=gl-java/11.0.20 gdcl/2.1.1 linux/6.1.0 gccl-invocation-id/b0f5c09c]. durationMs=336; method=GET; thread=gcsfs-misc-0 [CONTEXT ratelimit_period="10 SECONDS" ]
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d) $
```

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```
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ gcloud dataproc jobs submit spark \
--cluster=$CLUSTER_NAME \
--region=$REGION \
--class=org.apache.spark.examples.SparkPageRank \
--jars=file:///usr/lib/spark/examples/jars/spark-examples.jar \
--project=$PROJECT_ID \
-- /data.txt
Job [663dd4d5732c4000a3536bd38b54de2e] submitted.
Waiting for job output...
WARN: This is a naive implementation of PageRank and is given as an example!
Please use the PageRank implementation found in org.apache.spark.graphx.lib.PageRank
for more conventional use.

25/12/09 13:12:44 INFO SparkEnv: Registering MapOutputTracker
25/12/09 13:12:44 INFO SparkEnv: Registering BlockManagerMaster
25/12/09 13:12:44 INFO SparkEnv: Registering BlockManagerMasterHeartbeat
25/12/09 13:12:45 INFO SparkEnv: Registering OutputCommitCoordinator
25/12/09 13:12:45 INFO MetricsConfig: Loaded properties from hadoop-metrics2.properties
25/12/09 13:12:45 INFO MetricsSystemImpl: Scheduled Metric snapshot period at 10 second(s).
25/12/09 13:12:45 INFO MetricsSystemImpl: google-hadoop-file-system metrics system started
25/12/09 13:12:46 INFO DataprocSparkPlugin: Registered 188 driver metrics
25/12/09 13:12:47 INFO DefaultNoHARMFailoverProxyProvider: Connecting to ResourceManager at dataproc-cluster-1765284568-m.us-east1-c.qwiklabs-gcp-01-0c71c5c6537d.internal./10.142.0.4:8032
25/12/09 13:12:48 INFO AHSProxy: Connecting to Application History server at dataproc-cluster-1765284568-m.us-east1-c.qwiklabs-gcp-01-0c71c5c6537d.internal./10.142.0.4:10200
25/12/09 13:12:49 INFO Configuration: resource-types.xml not found
25/12/09 13:12:49 INFO ResourceUtils: Unable to find 'resource-types.xml'.
25/12/09 13:12:51 INFO YarnClientImpl: Submitted application application_1765285537283_0001
25/12/09 13:12:52 INFO DefaultNoHARMFailoverProxyProvider: Connecting to ResourceManager at dataproc-cluster-1765284568-m.us-east1-c.qwiklabs-gcp-01-0c71c5c6537d.internal./10.142.0.4:8030
25/12/09 13:12:55 INFO GoogleCloudStorageImpl: Ignoring exception of type GoogleJsonResponseException; verified object already exists with desired state.
25/12/09 13:12:56 INFO GoogleHadoopOutputStream: hflush(): No-op due to rate limit (RateLimiter[stableRate=0.2qps]): readers will *not* yet see flushed data for gs://dataproc-temp-us-east1-322436949226-bg5v3wnw/2ff35e68-e839-4f02-af5e-6328afcaeb1c/spark-job-history/application_1765285537283_0001.inprogress [CONTEXT ratelimit_period="1 MINUTES"]
25/12/09 13:13:16 INFO GhfsGlobalStorageStatistics: periodic connector metrics: {action_http_delete_request=2, action_http_delete_request_duration=114, action_http_delete_request_max=76, action_http_delete_request_mean=57, action_http_delete_request_min=38, action_http_post_request=6, action_http_post_request_duration=573, action_http_post_request_max=247, action_http_post_request_mean=95, action_http_post_request_min=31, action_http_put_request=3, action_http_put_request_duration=337, action_http_put_request_max=147, action_http_put_request_mean=112, action_http_put_request_min=72, directories_created=1, files_created=1, gcs_api_client_non_found_response_count=15, gcs_api_client_precondition_failed_response_count=1, gcs_api_client_side_error_count=16, gcs_api_time=2092, gcs_api_total_request_count=33, gcs_connector_time=2857, gcs_get_other_request=2, gcs_list_file_request=2, gcs_list_file_request_duration=237, gcs_list_file_request_max=218, gcs_list_file_request_mean=118, gcs_metadata_request=17, gcs_metadata_request_duration=747, gcs_metadata_request_max=215, gcs_metadata_request_mean=43, gcs_meta}
```

9 18°C ENG IN 06:43 PM 09-12-2025 Clear

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```
25/12/09 13:12:49 INFO Configuration: resource-types.xml not found
25/12/09 13:12:49 INFO ResourceUtils: Unable to find 'resource-types.xml'.
25/12/09 13:12:51 INFO YarnClientImpl: Submitted application application_1765285537283_0001
25/12/09 13:12:52 INFO DefaultNoHARMFailoverProxyProvider: Connecting to ResourceManager at dataproc-cluster-1765284568-m.us-east1-c.c.qwiklabs-gcp-01-0c71c5c6537d.internal./10.142.0.4:8030
25/12/09 13:12:55 INFO GoogleCloudStorageImpl: Ignoring exception of type GoogleJsonResponseException; verified object already exists with desired state.
25/12/09 13:12:56 INFO GoogleHadoopOutputStream: hflush(): No-op due to rate limit (RateLimiter[stableRate=0.2qps]): readers will *not* yet see flushed data for gs://dataproc-temp-us-east1-322436949226-bq5v3nw/2ff35e68-e839-4f02-af5e-6328afcaeb1c/spark-job-history/application_1765285537283_0001.inprogress [CONTEXT ratelimit_period="1 MINUTES"]
25/12/09 13:13:16 INFO GfsGlobalStorageStatistics: periodic connector metrics: {action_http_delete_request=2, action_http_delete_request_duration=114, action_http_delete_request_max=76, action_http_delete_request_mean=57, action_http_delete_request_min=38, action_http_post_request=6, action_http_post_request_duration=573, action_http_post_request_max=247, action_http_post_request_mean=95, action_http_post_request_min=31, action_http_put_request=3, action_http_put_request_duration=337, action_http_put_request_max=147, action_http_put_request_mean=112, action_http_put_request_min=72, directories_created=1, files_created=1, gcs_api_client_non_found_response_count=15, gcs_api_client_precondition_failed_response_count=1, gcs_api_client_side_error_count=16, gcs_api_time=2092, gcs_api_total_request_count=33, gcs_connector_time=2857, gcs_get_other_request=2, gcs_list_file_request=2, gcs_list_file_request_duration=237, gcs_list_file_request_max=218, gcs_list_file_request_mean=118, gcs_list_file_request_min=19, gcs_metadata_request=17, gcs_metadata_request_duration=747, gcs_metadata_request_max=215, gcs_metadata_request_mean=43, gcs_metadata_request_min=19, gs_filesystem_create=3, gs_filesystem_initialize=2, op_create=1, op_create_duration=141, op_create_max=141, op_create_mean=141, op_create_min=141, op_get_file_status=1, op_get_file_status_duration=1185, op_get_file_status_max=1185, op_get_file_status_mean=1185, op_hflush=11, op_hflush_duration=1269, op_hflush_max=617, op_hflush_mean=115, op_mkdirs=1, op_mkdirs_duration=262, op_mkdirs_max=262, op_mkdirs_mean=262, stream_write_bytes=168610, uptimeSeconds=34}
[CONTEXT ratelimit_period="5 MINUTES"]
url_4 has rank: 1.253623453429063 .
url_2 has rank: 0.5376950254457503 .
url_3 has rank: 0.9104932478397175 .
url_1 has rank: 1.2981882732854677 .

25/12/09 13:13:20 INFO DataprocSparkPlugin: Shutting down driver plugin. metrics=[action_http_patch_request=0, files_created=1, gcs_api_server_timeout_count=0, op_get_list_status_result_size=0, op_open=0, action_http_delete_request=2, gcs_api_time=2124, gcs_backoff_count=0, gcs_api_client_unauthorized_response_count=0, stream_read_close_operations=0, stream_read_bytes_backwards_on_seek=0, gs_filesystem_create=3, exception_count=0, gcs_exception_count=0, gcs_api_total_request_count=33, op_create=1, stream_read_vectored_operations=0, gcs_metadata_request=17, gcs_api_client_bad_request_count=0, action_http_put_request=3, op_create_non_recursive=0, gcs_api_client_gone_response_count=0, gs_filesystem_initialize=2, stream_read_vectored_incoming_ranges=0, stream_write_operations=0, gcs_list_dir_request=0, stream_read_operations=0, gcs_api_client_request_timeout_count=0, op_rename=0, op_get_file_status=1, op_glob_status=0, op_exists=0, stream_write_bytes=395362, op_xattr_list=0, op_get_delegation_token=0, gcs_api_server_unavailable_count=0, directories_created=1, files_delete_rejected=0, stream_read_vectored_combined_ranges=0, op_xattr_get_named=0, gcs_list_file_request=2, op_hsync=0, action_http_get_request=0, stream_read_operations_incomplete=0, op_delete=0, stream_read_bytes=0, gcs_api_client_non_found_response_count=15, op_list_located_status=0, gcs_api_client_requested_range_not_satisfiable_count=0, op_hflush=25, op_list_status=0, stream_read_vectored_read_bytes_discarded=0, op_xattr_get_named_map=0, gcs_api_client_side_error_count=16, op_get_file_checksum=0, gcs_api_server_internal_error_count=0, stream_read_seek_bytes_skipped=0, stream_write_close_operations=0, gcs_get_media_request=0, gcs_connector_time=2859, files_deleted=0, action_http_post_request=7, op_mkdirs=1, gcs_api_client_rate_limit_error_count=0, op_copy_from_local_file=0, gcs_api_server_bad_gateway_count=0, stream_readVectored_range_duration=0, stream_read_seek_backward_operations=0, gcs_api_server_side_error_count=0, stream_read_seek_operations=0, gcs_get_other_request=2, stream_read_seek_forward_operations=0, gcs_api_client_precondition_failed_response_count=1, op_xattr_get_map=0, delegation_tokens_issued=0, gcs_backoff_time=0, gcs_list_dir_request_min=0, gcs_metadata_request_min=19, op_delete_min=0, op_glob_status_min=0, op_create_non_recursive_min=0, op_hsync_min=0, op_xattr_get_named_min=0, op_xattr_get_named_map_min=0, op_hflush_min=0, op_xattr_list_min=0, action_http_put_request_min=72, op_open_min=0, gcs_list_file_request_min=19, stream_write_close_operations_min=0, op_create_min=141, action_http_delete_request_min=38, op_mkdirs_min=262, op_list_status_min=0, gcs_get_media_request_min=0, stream_readVectored_range_duration_min=0, stream_read_vectored_operations_min=0, stream_read_close_operations_min=0, stream_read_operations_min=0, stream_read_seek_operations_min=0]
```

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Search

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```
4, action_http_post_request_duration=605, op_rename_duration=0]
Job [663dd4d5732c4000a3536bd38b54de2e] finished successfully.
done: true
driverControlFilesUri: gs://dataproc-staging-us-east1-322436949226-qum8hwjx/google-cloud-dataproc-metainfo/2ff35e68-e839-4f02-af5e-6328afcaeb1c/jobs/663dd4d5732c4000a3536bd38b54de2e/
driverOutputResourceUri: gs://dataproc-staging-us-east1-322436949226-qum8hwjx/google-cloud-dataproc-metainfo/2ff35e68-e839-4f02-af5e-6328afcaeb1c/jobs/663dd4d5732c4000a3536bd38b54de2e/drivero
utput
jobUuid: 8884ba5b-1f1e-3f89-b19f-215a96db5e3e
placement:
  clusterName: dataproc-cluster-1765284568
  clusterUuid: 2ff35e68-e839-4f02-af5e-6328afcaeb1c
reference:
  jobId: 663dd4d5732c4000a3536bd38b54de2e
  projectId: qwiklabs-gcp-01-0c71c5c6537d
sparkJob:
  args:
    - /data.txt
  jarFileUris:
    - file:///usr/lib/spark/examples/jars/spark-examples.jar
  mainClass: org.apache.spark.examples.SparkPageRank
status:
  state: DONE
  stateStartTime: '2025-12-09T13:13:21.889214Z'
statusHistory:
- state: PENDING
  stateStartTime: '2025-12-09T13:12:35.350990Z'
- state: SETUP_DONE
  stateStartTime: '2025-12-09T13:12:35.398104Z'
- details: Agent reported job success
  state: RUNNING
  stateStartTime: '2025-12-09T13:12:35.684758Z'
yarnApplications:
- name: SparkPageRank
  progress: 1.0
  state: FINISHED
  trackingUrl: http://dataproc-cluster-1765284568-m.us-east1-c.c.qwiklabs-gcp-01-0c71c5c6537d.internal.:8088/proxy/application_1765285537283_0001/
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$
```

9 18°C Clear

Search

06:44 PM 09-12-2025 ENG IN

Prepare Data for ML APIs on Goo x +

https://partner.skills.google/course_templates/631/labs/594536

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Dashboard Catalog Paths Collections

Contents Prepare Data for ML APIs on Google Cloud: Challen

Open Google Cloud console

Username: student-01-10661ce6b35f (Copy)

Password: K7qmR0vDDLNk (Copy)

Project ID: quicklabs-gcp-01-0c71c5c6537d-marking (Copy)

BigQuery Dataset Name: lab_861 (Copy)

Cloud Storage Bucket Name: quicklabs-gcp-01-0c71c5c6537d (Copy)

Region: us-east1 (Copy)

Task 3. Use the Google Cloud Speech-to-Text API

- Use Google Cloud Speech-to-Text API to analyze the audio file `gs://spl/gsp323/task3.flac`. Once you have analyzed the file, upload the resulting file to: `gs://quicklabs-gcp-01-0c71c5c6537d-marking/task3-gcs-636.result`

Note: If you are facing issues in this task, you can refer to the respective lab for troubleshooting: [Google Cloud Speech-to-Text API: Qwik Start](#)

Click **Check my progress** to verify the objective.

Use the Google Cloud Speech-to-Text API

Check my progress

GSP323 Overview Setup Challenge scenario Task 1. Run a simple Dataflow job Task 2. Run a simple Dataproc job Task 3. Use the Google Cloud Speech-to-Text API Task 4. Use the Cloud Natural Language API Congratulations!

50/100

9 18°C Clear

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06:44 PM 09-12-2025

 Sign in with Google

Choose an account

to continue to [Google Cloud SDK](#)

**student 30771e0c**

student-01-10661ce6b35f@qwiklabs.net

[Use another account](#)

English (United States) ▾

[Help](#)[Privacy](#)[Terms](#)

Sign in with Google

 This will allow **Google Cloud SDK** to:

Google Cloud SDK
wants to access your
Google Account

 student-01-10661ce6b35f@qwiklabs.net

- View and manage your applications deployed on Google App Engine
- See, edit, configure, and delete your Google Cloud data and see the email address for your Google Account.
- View and sign in to your Google Cloud SQL instances
- View and manage your Google Compute Engine resources

Make sure you trust Google Cloud SDK

 [Learn why you're not seeing links to Google Cloud SDK's Privacy Policy or Terms of Service](#)

Review Google Cloud SDK's Privacy Policy and Terms of Service to understand how Google Cloud SDK will process and protect your data.

To make changes at any time, go to your [Google Account](#).

Learn how Google helps you [share data safely](#).

[Cancel](#) [Allow](#)



Sign in to the gcloud CLI

You are seeing this page because you ran the following command in the gcloud CLI from this or another machine. If this is not the case, close this tab.

```
gcloud auth login --no-launch-browser
```

Enter the following verification code in gcloud CLI on the machine you want to log into. This is a credential **similar to your password** and should not be shared with others.

```
4/0ATX87lMveSjBm7AI1Zczp9W5FYfybAfgtIJPPkAMQks0AnMJQHwnA5D4CuQfKCJ05Jmm8w
```

Copy

You can close this tab when you're done.

Jobs - Dataflow - qwiklabs-gcp-01-0c71c5c6537d x gcloud CLI Remote Login +

https://console.cloud.google.com/dataflow/jobs?referrer=search&cloudshell=true&project=qwiklabs-gcp-01-0c71c5c6537d | 3

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Google Cloud Job Search

CLOUD SHELL Terminal (qwiklabs-gcp-01-0c71c5c6537d) + Open Editor | ⚙️ 🌐 📞 📈 📉 🗃

Gemini CLI is available in Cloud Shell terminal! Type gemini to try it. [Learn more](#)

Don't show again Dismiss

```
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ gcloud auth login --no-launch-browser --quiet
gcloud alpha services api-keys create --display-name="speech-api-key"
API_KEY_NAME=$(gcloud alpha services api-keys list --format="value(name)" --filter "displayName=speech-api-key")
API_KEY=$(gcloud alpha services api-keys get-key-string $API_KEY_NAME --location=global --format="value(keyString)")
Go to the following link in your browser, and complete the sign-in prompts:

https://accounts.google.com/o/oauth2/auth?response_type=code&client_id=32555940559.apps.googleusercontent.com&redirect_uri=https%3A%2F%2F sdk.cloud.google.com%2Fauthcode.html&scope=openid+
https%3A%2F%2F www.googleapis.com%2Fauth%2Fuserinfo.email+https%3A%2F%2F www.googleapis.com%2Fauth%2Fcloud-platform+https%3A%2F%2F www.googleapis.com%2Fauth%2F appengine.admin+https%3A%2F%2F www.googleapis.com%2Fauth%2Fsqlservice.login+https%3A%2F%2F www.googleapis.com%2Fauth%2Fcompute+https%3A%2F%2F www.googleapis.com%2Fauth%2Faccounts.reauth&state=sfse6mFqY4ZT3SXZlmg3DN6IdTJXB7&prompt=consent&token_usage=remote&access_type=offline&code_challenge=cfypJwXL0RFjhf_9yhKqlnRzPfcNUbE-84wIfJil8yg&code_challenge_method=S256

Once finished, enter the verification code provided in your browser: 4/0ATX87IMveSjBm7AI1Zczp9W5FYfybAfgtIJPPkAMQkS0AnMJQHwnA5D4CuQfKCJO5Jmm8w
```

4/0ATX87IMveSjBm7AI1Zczp9W5FYfybAfgtIJPPkAMQkS0AnMJQHwnA5D4CuQfKCJO5Jmm8w

9 18°C Clear Search 🛋️ 📱 📺 📂 📺 📺 📺 📺 📺

ENG IN 06:48 PM 09-12-2025

Buckets – Cloud Storage – qwiklab x gcloud CLI Remote Login +

https://console.cloud.google.com/storage/browser?cloudshell=true&project=qwiklabs-gcp-01-0c71c5c6537d&prefix=&forceOnBucketsSortingFil... | 3

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Google Cloud qwiklabs-gcp-01-0c71c5c6537d Buckets X Search s

Cloud Storage Cloud Storage Buckets + Create Refresh Go to path Learn

Overview Filter Filter buckets View options

Buckets Marketplace Release Notes

Name ↑	Created	Location type	Location	Default storage class	Last modified	Public ac
dataproc-staging-us-east1-32243694...	Dec 9, 2025, 6:32:42 PM	Region	us-east1	Standard	Dec 9, 2025, 6:32:42 PM	Subject to
dataproc-temp-us-east1-3224369492...	Dec 9, 2025, 6:32:42 PM	Region	us-east1	Standard	Dec 9, 2025, 6:32:42 PM	Subject to
qwiklabs-gcp-01-0c71c5c6537d-mark...	Dec 9, 2025, 6:20:28 PM	Region	us-east1	Standard	Dec 9, 2025, 6:20:28 PM	Subject to

CLOUD SHELL Terminal (qwiklabs-gcp-01-0c71c5c6537d) + Open Editor ⚙️ 🌐 📁 🖥️ ⋮ - ⏪ ⏩ ⏴ ⏵ ⏷ ⏸ ⏹

Gemini CLI is available in Cloud Shell terminal! Type gemini to try it. [Learn more](#) Don't show again Dismiss

```
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ gsutil ls gs://$BUCKET_NAME
gs://dataproc-staging-us-east1-322436949226-qum8hwjx/
gs://dataproc-temp-us-east1-322436949226-bg5v3wnw/
gs://qwiklabs-gcp-01-0c71c5c6537d-marking/
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$
```

9 18°C Clear Search

ENG IN 06:50 PM 09-12-2025

Buckets – Cloud Storage – qwikla X gcloud CLI Remote Login +

https://console.cloud.google.com/storage/browser?cloudshell=true&project=qwiklabs-gcp-01-0c71c5c6537d&prefix=&forceOnBucketsSortingFil... 3

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Google Cloud qwiklabs-gcp-01-0c71c5c6537d Buckets X Search

Cloud Storage Buckets + Create Refresh Go to path Learn

CLOUD SHELL Terminal (qwiklabs-gcp-01-0c71c5c6537d) + Open Editor

(i) Gemini CLI is available in Cloud Shell terminal! Type gemini to try it. [Learn more](#)

Don't show again Dismiss

```
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ gsutil ls gs://$BUCKET_NAME
gs://dataproc-staging-us-east1-322436949226-qum8hwjx/
gs://dataproc-temp-us-east1-322436949226-bg5v3wnw/
gs://qwiklabs-gcp-01-0c71c5c6537d-marking/
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ cat > request.json <<EOF
{
  "config": {
    "encoding": "FLAC",
    "languageCode": "en-US"
  },
  "audio": {
    "uri": "gs://cloud-training/gsp323/task3.flac"
  }
}
EOF
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$
```

9 18°C Clear Search

Search

06:50 PM 09-12-2025 ENG IN

```
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ gsutil ls gs://$BUCKET_NAME  
gs://dataproc-staging-us-east1-322436949226-qum8hwjx/  
gs://dataproc-temp-us-east1-322436949226-bg5v3wnw/  
gs://qwiklabs-gcp-01-0c71c5c6537d-marking/  
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ cat > request.json <<EOF  
{  
  "config": {  
    "encoding": "FLAC",  
    "languageCode": "en-US"  
  },  
  "audio": {  
    "uri": "gs://cloud-training/gsp323/task3.flac"  
  }  
}  
EOF  
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ curl -s -X POST -H "Content-Type: application/json" \  
--data-binary @request.json \  
"https://speech.googleapis.com/v1/speech:recognize?key=${API_KEY}" > speech_result.json  
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ █
```

```
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ cat > request.json <<EOF
{
  "config": {
    "encoding": "FLAC",
    "languageCode": "en-US"
  },
  "audio": {
    "uri": "gs://cloud-training/gsp323/task3.flac"
  }
}
EOF
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ curl -s -X POST -H "Content-Type: application/json" \
--data-binary @request.json \
"https://speech.googleapis.com/v1/speech:recognize?key=${API_KEY}" > speech_result.json
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ cat speech_result.json
{
  "results": [
    {
      "alternatives": [
        {
          "transcript": "welcome to the Baseline data machine learning and artificial intelligence challenge lab",
          "confidence": 0.9912288
        }
      ],
      "resultEndTime": "5.220s",
      "languageCode": "en-us"
    }
  ],
  "totalBilledTime": "6s",
  "requestId": "5200895567063672665"
}
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$
```

Buckets – Cloud Storage – qwiklabs

gcloud CLI Remote Login

https://console.cloud.google.com/storage/browser?cloudshell=true&project=qwiklabs-gcp-01-0c71c5c6537d&prefix=&forceOnBucketsSortingFil...

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Google Cloud Buckets

Cloud Storage Buckets + Create Refresh

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Open Editor

Search

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Don't show again Dismiss

```
"languageCode": "en-US"
},
"audio": {
  "uri": "gs://cloud-training/gsp323/task3.flac"
}
}
EOF
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ curl -s -X POST -H "Content-Type: application/json" \
--data-binary @request.json \
"https://speech.googleapis.com/v1/speech:recognize?key=${API_KEY}" > speech_result.json
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ cat speech_result.json
{
  "results": [
    {
      "alternatives": [
        {
          "transcript": "welcome to the Baseline data machine learning and artificial intelligence challenge lab",
          "confidence": 0.9912288
        }
      ],
      "resultEndTime": "5.220s",
      "languageCode": "en-us"
    }
  ],
  "totalBilledTime": "6s",
  "requestId": "5200895567063672665"
}
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ gsutil cp speech_result.json gs://${BUCKET_NAME}/${SPEECH_OUTPUT}
Copying file://speech_result.json [Content-Type=application/json]...
- [1 files] [ 365.0 B/ 365.0 B]
Operation completed over 1 objects/365.0 B.
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$
```

9 18°C Clear

Search

18°C Clear

ENG IN

06:51 PM

09-12-2025

qwiklabs-g...d-marking - Bucket gcloud CLI Remote Login +

https://console.cloud.google.com/storage/browser/qwiklabs-gcp-01-0c71c5c6537d-marking;tab=objects?forceOnBucketsSortingFiltering=true&c... 3

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Google Cloud Buckets Search

Cloud Storage Bucket details Edit bucket Go to path Refresh Learn

Overview Buckets Monitoring Settings

Storage Intelligence Insights datasets Configuration

Marketplace Release Notes

CLOUD SHELL Terminal (qwiklabs-gcp-01-0c71c5c6537d) Open Editor

17°C Clear Search

ENG IN 06:53 PM 09-12-2025

Bucket details for **qwiklabs-gcp-01-0c71c5c6537d-marking**

Location: us-east1 (South Carolina) Storage class: Standard Public access: Subject to object ACLs Protection: Soft Delete

Objects Configuration Permissions Protection Lifecycle Observability Inventory Reports Operations

Folder browser Buckets > **qwiklabs-gcp-01-0c71c5c6537d-marking** Create folder Upload Transfer data Other services

temp/ Filter by name prefix only Filter Filter objects and folders Show Live objects only

Name	Size	Type	Created	Storage class
task3-gcs-636.result	365 B	application/json	Dec 9, 2025, 6:51:47 PM	Standard
temp/	—	Folder	—	—

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Dashboard Catalog Paths Collections

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1 ENG IN 07:01 PM 09-12-2025

100/100 GSP323 Overview Setup Challenge scenario Task 1. Run a simple Dataflow job Task 2. Run a simple Dataproc job Task 3. Use the Google Cloud Speech-to-Text API Task 4. Use the Cloud Natural Language API Congratulations!

Task 4. Use the Cloud Natural Language API

- Use the Cloud Natural Language API to analyze the sentence from text about Odin. The text you need to analyze is "Old Norse texts portray Odin as one-eyed and long-bearded, frequently wielding a spear named Gungnir and wearing a cloak and a broad hat." Once you have analyzed the text, upload the resulting file to:
`gs://qwiklabs-gcp-01-0c71c5c6537d-marking/task4-cnl-759.result`

Note: If you are facing issues in this task, you can refer to the respective lab for troubleshooting: [Cloud Natural Language API: Qwik Start](#)

Click **Check my progress** to verify the objective.

 Use the Cloud Natural Language API
Check my progress
Assessment Completed!

Previews Next

https://partner.skills.google/course_templates/631/labs/594536

qwiklabs-g...d-marking Bucket gcloud CLI Remote Login +

https://console.cloud.google.com/storage/browser/qwiklabs-gcp-01-0c71c5c6537d-marking;tab=objects?forceOnBucketsSortingFiltering=true&c... 3

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Google Cloud qwiklabs-gcp-01-0c71c5c6537d Buckets X Search

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Open Editor

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```
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ gcloud iam service-accounts create nl-service-account \
--display-name "Natural Language Service Account"
gcloud projects add-iam-policy-binding $PROJECT_ID \
--member="serviceAccount:nl-service-account@$PROJECT_ID.iam.gserviceaccount.com" \
--role="roles/storage.objectAdmin"
Created service account [nl-service-account].
Updated IAM policy for project [qwiklabs-gcp-01-0c71c5c6537d].
bindings:
- members:
  - serviceAccount:qwiklabs-gcp-01-0c71c5c6537d@qwiklabs-gcp-01-0c71c5c6537d.iam.gserviceaccount.com
    role: roles/bigquery.admin
- members:
  - serviceAccount:322436949226@cloudbuild.gserviceaccount.com
    role: roles/cloudbuild.builds.builder
- members:
  - serviceAccount:service-322436949226@gcp-sa-cloudbuild.iam.gserviceaccount.com
    role: roles/cloudbuild.serviceAgent
- members:
  - serviceAccount:service-322436949226@compute-system.iam.gserviceaccount.com
    role: roles/compute.serviceAgent
- members:
  - serviceAccount:service-322436949226@dataflow-service-producer-prod.iam.gserviceaccount.com
    role: roles/dataflow.serviceAgent
- members:
  - user:student-01-10661ce6b35f@qwiklabs.net
    role: roles/dataproc.editor
- members:
  - serviceAccount:service-322436949226@dataproc-accounts.iam.gserviceaccount.com
    role: roles/dataproc.serviceAgent
- members:
  - serviceAccount:322436949226-compute@developer.gserviceaccount.com
  - serviceAccount:322436949226@cloudfs.gserviceaccount.com
    role: roles/editor
- members:
  - serviceAccount:admiral@qwiklabs-services-prod.iam.gserviceaccount.com
  - serviceAccount:qwiklabs-gcp-01-0c71c5c6537d@qwiklabs-gcp-01-0c71c5c6537d.iam.gserviceaccount.com
```

9+ 17°C Clear Search

ENG IN 06:57 PM 09-12-2025

qwiklabs-g...d-marking Bucket gcloud CLI Remote Login +

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Google Cloud Buckets X Search

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Open Editor |

Gemini CLI is available in Cloud Shell terminal! Type gemini to try it. [Learn more](#)

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```
- user:student-01-10661ce6b35f@qwiklabs.net
role: roles/owner
members:
- serviceAccount:322436949226-compute@developer.gserviceaccount.com
- serviceAccount:qwiklabs-gcp-01-0c71c5c6537d@qwiklabs-gcp-01-0c71c5c6537d.iam.gserviceaccount.com
role: roles/storage.admin
members:
- serviceAccount:nl-service-account@qwiklabs-gcp-01-0c71c5c6537d.iam.gserviceaccount.com
role: roles/storage.objectAdmin
members:
- user:student-01-10661ce6b35f@qwiklabs.net
role: roles/storage.objectViewer
members:
- user:student-01-10661ce6b35f@qwiklabs.net
role: roles/viewer
etag: BwZFhNuaN4g=
version: 1
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ gcloud iam service-accounts keys create ~/nl-key.json \
--iam-account nl-service-account@$PROJECT_ID.iam.gserviceaccount.com
export GOOGLE_APPLICATION_CREDENTIALS="/home/$USER/nl-key.json"
created key [8d52f0a6db63b511904553e86ba8bba518c081a5] of type [json] as [/home/student_01_10661ce6b35f/nl-key.json] for [nl-service-account@qwiklabs-gcp-01-0c71c5c6537d.iam.gserviceaccount.com]
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ gcloud auth activate-service-account nl-service-account@$PROJECT_ID.iam.gserviceaccount.com \
--key-file=$GOOGLE_APPLICATION_CREDENTIALS
Activated service account credentials for: [nl-service-account@qwiklabs-gcp-01-0c71c5c6537d.iam.gserviceaccount.com]
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ gsutil ls gs://$BUCKET_NAME
gs://qwiklabs-gcp-01-0c71c5c6537d-marking/task3-gcs-636.result
gs://qwiklabs-gcp-01-0c71c5c6537d-marking/temp/
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ gcloud ml language analyze-entities \
--content="Old Norse texts portray Odin as one-eyed and long-bearded, frequently wielding a spear named Gungnir and wearing a cloak and a broad hat." \
> nl_result.json
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$ gsutil cp nl_result.json gs://$BUCKET_NAME/$NL_OUTPUT
Copying file://nl_result.json [Content-Type=application/json]...
- [1 files] [ 2.6 KiB/ 2.6 KiB]
Operation completed over 1 objects/2.6 KiB.
student_01_10661ce6b35f@cloudshell:~ (qwiklabs-gcp-01-0c71c5c6537d)$
```

9+ 17°C Clear

Search

1 ENG IN 06:58 PM 09-12-2025

qwiklabs-g...d-marking - Bucket gcloud CLI Remote Login +

https://console.cloud.google.com/storage/browser/qwiklabs-gcp-01-0c71c5c6537d-marking;tab=objects?forceOnBucketsSortingFiltering=true&c... 3

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Google Cloud qwiklabs-gcp-01-0c71c5c6537d Buckets X Search

Cloud Storage Bucket details Edit bucket Go to path Refresh Learn

Overview Buckets Monitoring Settings

Storage Intelligence Insights datasets Configuration

Marketplace Release Notes

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9+ 17°C Clear

Search

Buckets

qwiklabs-gcp-01-0c71c5c6537d-marking

Location us-east1 (South Carolina) Storage class Standard Public access Subject to object ACLs Protection Soft Delete

Objects Configuration Permissions Protection Lifecycle Observability Inventory Reports Operations

Folder browser Buckets > qwiklabs-gcp-01-0c71c5c6537d-marking Create folder Upload Transfer data Other services

temp/ Filter by name prefix only Filter Filter objects and folders Show Live objects only

Name	Size	Type	Created	Storage class
task3-gcs-636.result	365 B	application/json	Dec 9, 2025, 6:51:47 PM	Standard
task4-cnl-759.result	2.6 KB	application/json	Dec 9, 2025, 6:57:35 PM	Standard
temp/	-	Folder	-	-

ENG IN 06:59 PM 09-12-2025

