

Dataflow: Qwik Start - Python

GSP207



- Apache Beam SDK provides an open-source model for building unified data processing pipelines across batch and streaming.
- In Google Cloud, pipelines defined with Apache Beam programs execute seamlessly on the managed Dataflow service.
- This lab configures a Python development environment specifically for Dataflow using the Apache Beam SDK.
- You'll create a Cloud Storage bucket to persist and store Dataflow pipeline execution results.
- Hands-on tasks include installing the Python SDK and executing a sample pipeline remotely on Dataflow.

Prepare Data for ML APIs on Google Cloud

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Lab setup instructions and requirements

End Lab 00:44:45 Time limit

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Open Google Cloud console

Username: student-02-77569a450c62@qwiklabs.net

Password: 1gd108qixhdc

Project ID: qwiklabs-gcp-03-dd53462

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3. (Optional) You can list the active account name with this command:

```
gcloud auth list
```

4. Click Authorize.

Output:

```
ACTIVE: *
ACCOUNT: student-02-77569a450c62@qwiklabs.net

To set the active account, run:
$ gcloud config set account `ACCOUNT`
```

5. (Optional) You can list the project ID with this command:

```
gcloud config list project
```

Output:

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Overview

Setup and requirements

Task 1. Create a Cloud Storage bucket

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Task 3. Run an example Dataflow pipeline remotely

Task 4. Check that your Dataflow job succeeded

Task 5. Test your understanding

Congratulations!

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Dashboard – qwiklabs-gcp-03-dc x +

https://console.cloud.google.com/home/dashboard?project=qwiklabs-gcp-03-dd53462212d8&pli=1&cloudshell=true

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CLOUD SHELL Terminal (qwiklabs-gcp-03-dd53462212d8) x + Open Editor

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-03-dd53462212d8**.
Use `gcloud config set project [PROJECT_ID]` to change to a different project.
student_02_77569a450c62@cloudshell:~ (qwiklabs-gcp-03-dd53462212d8)\$ gcloud auth list
Credentialled Accounts

ACTIVE: *
ACCOUNT: student-02-77569a450c62@qwiklabs.net

To set the active account, run:
\$ gcloud config set account `ACCOUNT`

student_02_77569a450c62@cloudshell:~ (qwiklabs-gcp-03-dd53462212d8)\$ gcloud config list project
[core]
project = qwiklabs-gcp-03-dd53462212d8

Your active configuration is: [cloudshell-19866]
student_02_77569a450c62@cloudshell:~ (qwiklabs-gcp-03-dd53462212d8)\$

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NOTE: For full documentation of gcloud in Google Cloud, refer to the [gcloud CLI overview guide](#).

Lab setup instructions and requirements

End Lab 00:43:03 Time limit

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Open Google Cloud console

Username: student-02-77569a450c62

Password: 1gd108qixhdc

Project ID: qwiklabs-gcp-03-dd53462

Set the region

- In Cloud Shell, run the following command to set the project region for this lab:

```
gcloud config set compute/region us-east4
```

Ensure that the Dataflow API is successfully enabled

To ensure access to the necessary API, restart the connection to the Dataflow API.

- Run the following commands to disable and re-enable the "Dataflow API".

```
gcloud services disable dataflow.googleapis.com  
gcloud services enable dataflow.googleapis.com
```

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CLOUD SHELL Terminal (qwiklabs-gcp-03-dd53462212d8) x + Open Editor

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-03-dd53462212d8**.
Use `gcloud config set project [PROJECT_ID]` to change to a different project.
student_02_77569a450c62@cloudshell:~ (qwiklabs-gcp-03-dd53462212d8)\$ gcloud auth list
Credentials
Accounted Accounts

ACTIVE: *
ACCOUNT: student-02-77569a450c62@qwiklabs.net

To set the active account, run:
\$ gcloud config set account `ACCOUNT`

student_02_77569a450c62@cloudshell:~ (qwiklabs-gcp-03-dd53462212d8)\$ gcloud config list project
[core]
project = qwiklabs-gcp-03-dd53462212d8

Your active configuration is: [cloudshell-19866]
student_02_77569a450c62@cloudshell:~ (qwiklabs-gcp-03-dd53462212d8)\$ gcloud config set compute/region us-east4
Updated property [compute/region].
student_02_77569a450c62@cloudshell:~ (qwiklabs-gcp-03-dd53462212d8)\$ gcloud services disable dataflow.googleapis.com
gcloud services enable dataflow.googleapis.com
Operation "operations/acat.p17-757704894172-1703f8e9-9fc0-4e62-8efc-96696458e742" finished successfully.
Operation "operations/acf.p2-757704894172-369ee459-2413-4072-8598-b7c4dafa7a4d" finished successfully.
student_02_77569a450c62@cloudshell:~ (qwiklabs-gcp-03-dd53462212d8)\$

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Lab setup instructions and requirements

End Lab 00:41:46 Time limit

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Open Google Cloud console

Username: student-02-77569a450c62e

Password: 1gd108qixhdc

Project ID: qwiklabs-gcp-03-dd53462

Task 1. Create a Cloud Storage bucket

When you run a pipeline using Dataflow, your results are stored in a Cloud Storage bucket. In this task, you create a Cloud Storage bucket for the results of the pipeline that you run in a later task.

1. On the **Navigation menu** (≡), click **Cloud Storage > Buckets**.
2. Click **Create bucket**.
3. In the **Create bucket** dialog, specify the following attributes:
 - **Name:** To ensure a unique bucket name, use the following name: **qwiklabs-gcp-03-dd53462212d8-bucket**. Note that this name does not include sensitive information in the bucket name, as the bucket namespace is global and publicly visible.
 - **Location type:** Multi-region
 - **Location:** us
 - A location where bucket data will be stored.
4. Click **Create**.

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Overview Setup and requirements Task 1. Create a Cloud Storage bucket Task 2. Install the Apache Beam SDK for Python Task 3. Run an example Dataflow pipeline remotely Task 4. Check that your Dataflow job succeeded Task 5. Test your understanding Congratulations!

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Dashboard Catalog Paths Collections

Lab setup instructions and requirements

End Lab 00:41:06 Time limit

Caution: When you are in the console, do not deviate from the lab instructions. Doing so may cause your account to be blocked. Learn more.

Open Google Cloud console

Username: student-02-77569a450c621

Password: 1gd108qixhdc

Project ID: qwiklabs-gcp-03-dd5346212d8

2. Click **Create bucket**.

3. In the **Create bucket** dialog, specify the following attributes:

- **Name:** To ensure a unique bucket name, use the following name: **qwiklabs-gcp-03-dd5346212d8-bucket**. Note that this name does not include sensitive information in the bucket name, as the bucket namespace is global and publicly visible.
- **Location type:** Multi-region
- **Location:** us
- A location where bucket data will be stored.

4. Click **Create**.

5. If Prompted Public access will be prevented, click **Confirm**.

Test completed task

Click **Check my progress** to verify your performed task. If you have completed the task successfully you will be granted an assessment score.

Create a Cloud Storage bucket.

Check my progress

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Create a bucket – Cloud Storage

https://console.cloud.google.com/storage/create-bucket?project=qwiklabs-gcp-03-dd53462212d8

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Cloud Storage Create a bucket

Get Started

Pick a globally unique, permanent name. [Naming guidelines](#)

qwiklabs-gcp-03-dd53462212d8-bucket

Tip: Don't include any sensitive information

Labels (optional)

Continue

Choose where to store your data

This choice defines the geographic placement of your data and affects cost, performance, and availability. Cannot be changed later. [Learn more](#)

Only locations allowed by the organization's resource location policy can be selected.

Location type

Multi-region (selected)
Highest availability across largest area

us (multiple regions in United States)

Add cross-bucket replication via Storage Transfer Service

Good to know

Location pricing

Storage rates vary depending on the storage class of your data and location of your bucket. [Pricing details](#)

Current configuration: Multi-region / Standard

Item	Cost
us (multiple regions in United States)	\$0.026 per GB-month
With default replication	\$0.020 per GB written

Estimate your monthly cost

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Create a bucket – Cloud Storage

https://console.cloud.google.com/storage/create-bucket?project=qwiklabs-gcp-03-dd53462212d8

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Cloud Storage Create a bucket

Get Started

Name: qwiklabs-gcp-03-dd53462212d8-bucket

Choose where to store your data

Location: us (multiple regions in United States)
Location type: Multi-region

Choose how to store your data

Default storage class: Standard
Hierarchical namespace: Disabled
Anywhere Cache: Disabled

Choose how to control access

Public access prevention: On
Access control: Uniform

Choose how to protect objects

Soft delete policy: Default
Object versioning: Disabled
Bucket retention policy: Disabled
Object retention: Disabled
Encryption type: Google-managed

Good to know

Location pricing

Storage rates vary depending on the storage class of your data and location of your bucket. [Pricing details](#)

Public access will be prevented

This bucket is set to prevent exposure of its data on the public internet.

Keep this setting enabled unless you have a use case that requires public access (such as static website hosting). You can change it now or later. [Learn more](#)

Enforce public access prevention on this bucket
 Don't show this message again

Cancel Confirm

Processing... Cancel

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Lab setup instructions and requirements

End Lab 00:38:36 Time limit

Caution: When you are in the console, do not deviate from the lab instructions. Doing so may cause your account to be blocked. Learn more.

Open Google Cloud console

Username: student-02-77569a450c62

Password: 1gd108qixhdc

Project ID: qwiklabs-gcp-03-dd53462

Task 2. Install the Apache Beam SDK for Python

1. To ensure that you use a supported Python version, begin by running the Python3.9 Docker Image:

```
docker run -it -e DEVSHELL_PROJECT_ID=$DEVSHELL_PROJECT_ID python:3.9 /bin/bash
```

This command pulls a Docker container with the latest stable version of Python 3.9 and then opens up a command shell for you to run the following commands inside your container.

2. After the container is running, install the latest version of the Apache Beam SDK for Python by running the following command from a virtual environment:

```
pip install 'apache-beam[gcp]'==2.67.0
```

You will see some warnings returned that are related to dependencies. It is safe to ignore them for this lab.

GSP207 Overview Setup and requirements Task 1. Create a Cloud Storage bucket Task 2. Install the Apache Beam SDK for Python Task 3. Run an example Dataflow pipeline remotely Task 4. Check that your Dataflow job succeeded Task 5. Test your understanding Congratulations!

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qwiklabs-g...d8-bucket – Cloud S +

https://console.cloud.google.com/storage/browser/qwiklabs-gcp-03-dd53462212d8-bucket;tab=objects?project=qwiklabs-gcp-03-dd53462212d8

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```
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-03-dd53462212d8.  
Use `gcloud config set project [PROJECT_ID]` to change to a different project.  
student_02_77569a450c62@cloudshell:~ (qwiklabs-gcp-03-dd53462212d8)$ docker run -it -e DEVSHELL_PROJECT_ID=$DEVSHELL_PROJECT_ID python:3.9 /bin/bash  
Unable to find image 'python:3.9' locally  
3.9: Pulling from library/python  
91c91c91f1d2: Full complete  
89d573bf42b3: Full complete  
79d5bd8a8d26: Full complete  
795dbdde24d: Full complete  
081ccf923272: Full complete  
c9723aa529b0: Full complete  
26dfe2fac1c4: Full complete  
e4c690b16c7b: Download complete  
63320b40b5fa: Download complete  
Digest: sha256:da5aeee29682d12a6649f51c8d6f15b87deb3e6c524b923c41d0cb3304d07c913  
Status: Downloaded newer image for python:3.9  
root@3918901f95fb:/# pip install 'apache-beam[gcp]'==2.67.0  
Collecting apache-beam[gcp]==2.67.0  
  Downloading apache_beam-2.67.0-cp39-cp39-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (16.5 MB)  
  16.5/16.5 MB 60.9 MB/s eta 0:00:00  
Collecting pydot<2,>=1.2.0  
  Downloading pydot-1.4.2-py2.py3-none-any.whl (21 kB)  
Collecting pyarrow-hotfix<1  
  Downloading pyarrow_hotfix-0.7-py3-none-any.whl (7.9 kB)  
Collecting redis<6,>=5.0.0  
  Downloading redis-5.3.1-py3-none-any.whl (272 kB)  
  272.8/272.8 kB 33.8 MB/s eta 0:00:00  
Collecting pytz>=2018.3  
  Downloading pytz-2025.2-py2.py3-none-any.whl (509 kB)  
  509.2/509.2 kB 47.2 MB/s eta 0:00:00  
Collecting regex>=2020.6.8  
  Downloading regex-2025.11.3-cp39-cp39-manylinux2014_x86_64.manylinux_2_17_x86_64.manylinux_2_28_x86_64.whl (791 kB)  
  791.2/791.2 kB 54.0 MB/s eta 0:00:00  
Collecting packaging>=22.0
```

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https://console.cloud.google.com/storage/browser/qwiklabs-gcp-03-dd53462212d8-bucket;tab=objects?project=qwiklabs-gcp-03-dd53462212d8

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```
Building wheel for docopt (setup.py) ... done
Created wheel for docopt: filename=docopt-0.6.2-py2.py3-none-any.whl size=13781 sha256=7380553330bf2153168ceba44c7cb3bfb0fe35103c3465e51b7b8bc82d64bd5f
Stored in directory: /root/.cache/pip/wheels/70/4a/46/1309fc853b8d395e60bafaf1b6df7845bdd82c95fd59dd8d2b
Successfully built crcmod dill google-apitools hdfs docopt
Installing collected packages: sortedcontainers, pytz, docopt, crcmod, zstandard, zipp, websockets, urllib3, ujson, tzdata, typing-extensions, tqdm, tenacity, sqlparse, six, rpds-py, regex, pyyaml, python-dotenv, pyparsing, PyJWT, pycparser, pyasn1, pyarrow-hotfix, pyarrow, protobuf, pluggy, packaging, overrides, orjson, objsize, numpy, more-itertools, mmh3, jsonpickle, jeepney, idna, h11, grpcio, google-crc32c, fasteners, fastavro, docstring_parser, dnspython, dill, charset_normalizer, certifi, cachetools, bac kports.tarfile, attrs, async-timeout, annotated-types, typing-inspection, shapely, rsa, requests, referencing, redis, python-dateutil, pymongo, pydot, pydantic-core, pyasn1-modules, proto-plus, milvus-lite, jaraco.functools, jaraco.context, jaraco.classes, importlib-metadata, httplib2, httpcore, grpc-interceptor, googleapis-common-protos, google-resumable-media, exceptiongroup, cffi, pydantic, pandas, opentelemetry-api, oauth2client, jsonschema-specifications, hdfs, grpcio-status, google-auth, cryptography, any io, SecretStorage, pymilvus, opentelemetry-semantic-conventions, jsonschema, httpx, grpc-google-iam-v1, google-auth-httplib2, google-apitools, google-api-core, opentelemetry-sdk, keyring, google-genai, google-cloud-core, apache-beam, opentelemetry-resourcedetector-gcp, keyrings.google-artifactregistry-auth, google-cloud-vision, google-cloud-ideointelligence, google-cloud-storage, google-cloud-resource-manager, google-cloud-recommendations-ai, google-cloud-pubsub, google-cloud-monitoring, google-cloud-language, google-cloud-dlp, google-cloud-datastore, google-cloud-bigtable, google-cloud-bigquery-storage, google-cloud-bigquery, google-cloud-spanner, google-cloud-pubsublite, google-cloud-applatform
Successfully installed PyJWT-2.10.1 SecretStorage-3.3.3 annotated-types-0.7.0 anyio-4.12.0 apache-beam-2.67.0 async-timeout-5.0.1 attrs-25.4.0 backports.tarfile-1.2.0 cache tools-6.2.4 certifi-2025.11.12 cffi-2.0.0 charset_normalizer-3.4.4 crcmod-1.7 cryptography-46.0.3 dill-0.3.1.1 dnspython-2.7.0 docopt-0.6.2 docstring_parser-0.17.0 exceptic ngroup-1.3.1 fastavro-1.12.1 fasteners-0.20 google-api-core-2.28.1 google-apitools-0.5.31 google-auth-2.45.0 google-auth-httplib2-0.2.1 google-cloud-aiplatform-1.132.0 goog le-cloud-bigquery-3.39.0 google-cloud-bigquery-storage-2.36.0 google-cloud-bigtable-2.35.0 google-cloud-core-2.5.0 google-cloud-datastore-2.23.0 google-cloud-dlp-3.33.0 goo gle-cloud-language-2.18.0 google-cloud-monitoring-2.28.0 google-cloud-pubsub-2.34.0 google-cloud-pubsublite-1.13.0 google-cloud-recommendations-ai-0.10.18 google-cloud-resou ce-manager-1.15.0 google-cloud-spanner-3.61.0 google-cloud-storage-2.19.0 google-cloud-videointelligence-2.17.0 google-cloud-vision-3.11.0 google-crc32c-1.8.0 google-gena i-1.47.0 google-resumable-media-2.8.0 googleapis-common-protos-1.72.0 grpc-google-iam-v1-0.14.3 grpc-interceptor-0.15.4 grpcio-1.65.5 grpcio-status-1.65.5 h11-0.16.0 hdfs-2 .7.3 httpcore-1.0.9 httplib2-0.22.0 httpx-0.28.1 idna-3.11 importlib-metadata-8.7.1 jaraco.classes-3.4.0 jaraco.context-6.0.2 jaraco.functools-4.4.0 jeepney-0.9.0 jsonpickl e-3.4.2 jsonschema-4.25.1 jsonschema-specifications-2025.9.1 keyring-25.7.0 keyrings.google-artifactregistry-auth-1.1.2 milvus-lite-2.5.1 mmh3-5.2.0 more-itertools-10.8.0 numpy-2.0.2 oauth2client-4.1.3 objsize-0.7.1 opentelemetry-api-1.39.1 opentelemetry-resourcedetector-gcp-1.11.0a0 opentelemetry-sdk-1.39.1 opentelemetry-semantic-conventions-0.60b1 orjson-3.11.5 overrides-7.7.0 packaging-25.0 pandas-2.3.3 pluggy-1.6.0 proto-plus-1.27.0 protobuf-5.29.5 pyarrow-18.1.0 pyarrow-hotfix-0.7 pyasn1-0.6.1 pyasn1-modul es-0.4.2 pycparser-2.23 pydantic-2.12.5 pydantic-core-2.41.5 pydot-1.4.2 pymilvus-2.5.18 pymongo-4.15.5 pyparsing-3.3.1 python-dateutil-2.9.0.post0 python-dotenv-1.2.1 pytz-2025.2 pyyaml-6.0.3 redis-5.3.1 referencing-0.36.2 regex-2025.11.3 requests-2.32.5 rpds-py-0.27.1 rsa-4.9.1 shapely-2.0.7 six-1.17.0 sortedcontainers-2.4.0 sqlparse-0.5.5 tenacity-9.1.2 tqdm-4.67.1 typing-extensions-4.15.0 typing-inspection-0.4.2 tzdata-2025.3 ujson-5.11.0 urllib3-2.6.2 websockets-15.0.1 zipp-3.23.0 zstandard-0.25.0
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager. It is recommended to use a virtual environment instead: https://pip.pypa.io/warnings/venv

[notice] A new release of pip is available: 23.0.1 -> 25.3
[notice] To update, run: pip install --upgrade pip
root@3918901f95fb:/#
```

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Contents Dataflow: Qwik Start - Python

Lab setup instructions and requirements

End Lab 00:35:17 Time limit

Caution: When you are in the console, do not deviate from the lab instructions. Doing so may cause your account to be blocked. Learn more.

Open Google Cloud console

Username: student-02-77569a450c621

Password: 1gd108qixhdc

Project ID: qwiklabs-gcp-03-dd53462

3. Run the `wordcount.py` example locally by running the following command:

```
python -m apache_beam.examples.wordcount --output OUTPUT_FILE
```

You may see a message similar to the following:

```
INFO:root:Missing pipeline option (runner). Executing pipeline using the default runner: DirectRunner.  
INFO:oauth2client.client:Attempting refresh to obtain initial access_token
```

This message can be ignored.

4. You can now list the files that are on your local cloud environment to get the name of the `OUTPUT_FILE`:

```
ls
```

5. Copy the name of the `OUTPUT_FILE` and `cat` into it:

GSP207 50/100

Overview

Setup and requirements

Task 1. Create a Cloud Storage bucket

Task 2. Install the Apache Beam SDK for Python

Task 3. Run an example Dataflow pipeline remotely

Task 4. Check that your Dataflow job succeeded

Task 5. Test your understanding

Congratulations!

18°C 18°C Mostly sunny

Search

04:05 PM 27-12-2025

qwiklabs-g...d8-bucket – Cloud S +

https://console.cloud.google.com/storage/browser/qwiklabs-gcp-03-dd53462212d8-bucket;tab=objects?project=qwiklabs-gcp-03-dd53462212d8... Q | 3

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

Google Cloud qwiklabs-gcp-03-dd53462212d8 Search (/) for resources, docs, products, and more Search

CLOUD SHELL Terminal (qwiklabs-gcp-03-dd53462212d8) + Open Editor | ☰ ⚙️ 📁 🎥 ⌂ ⌄ ⌅ ⌆ ⌇ ⌈ ⌉ ⌊ ⌋ ⌊ ⌋

```
i-1.47.0 google-resumable-media-2.8.0 googleapis-common-protos-1.72.0 grpc-google-iam-v1-0.14.3 grpc-interceptor-0.15.4 grpcio-1.65.5 grpcio-status-1.65.5 h11-0.16.0 hdfs-2.7.3 httpcore-1.0.9 httplib2-0.22.0 httpx-0.28.1 idna-3.11 importlib-metadata-8.7.1 jaraco.classes-3.4.0 jaraco.context-6.0.2 jaraco.functools-4.4.0 jeepney-0.9.0 jsonpickle-3.4.2 jsonschema-4.25.1 jsonschema-specifications-2025.9.1 keyring-25.7.0 keyrings.google-artifactregistry-auth-1.1.2 milvus-lite-2.5.1 mmh3-5.2.0 more-itertools-10.8.0 numpy-2.0.2 oauth2client-4.1.3 objsize-0.7.1 opentelemetry-api-1.39.1 opentelemetry-resourcedetector-gcp-1.11.0a0 opentelemetry-sdk-1.39.1 opentelemetry-semantic-conventions-0.60b1 orjson-3.11.5 overrides-7.7.0 packaging-25.0 pandas-2.3.3 pluggy-1.6.0 proto-plus-1.27.0 protobuf-5.29.5 pyarrow-18.1.0 pyarrow-hotfix-0.7 pyasn1-0.6.1 pyasn1-modules-0.4.2 pycparser-2.23 pydantic-2.12.5 pydantic-core-2.41.5 pydot-1.4.2 pymilvus-2.5.18 pymongo-4.15.5 pyparsing-3.3.1 python-dateutil-2.9.0.post0 python-dotenv-1.2.1 pytz-2025.2 pyyaml-6.0.3 redis-5.3.1 referencing-0.36.2 regex-2025.11.3 requests-2.32.5 rpds-py-0.27.1 rsa-4.9.1 shapely-2.0.7 six-1.17.0 sortedcontainers-2.4.0 sqlparse-0.5.5 tenacity-9.1.2 tqdm-4.67.1 typing-extensions-4.15.0 typing-inspection-0.4.2 tzdata-2025.3 ujson-5.11.0 urllib3-2.6.2 websockets-15.0.1 zipp-3.23.0 zstandard-0.25.0
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager. It is recommended to use a virtual environment instead: https://pip.pypa.io/warnings/venv

[notice] A new release of pip is available: 23.0.1 -> 25.3
[notice] To update, run: pip install --upgrade pip
root@3918901f95fb:/# python -m apache_beam.examples.wordcount --output OUTPUT_FILE
An error occurred: module 'importlib.metadata' has no attribute 'packages_distributions'
/usr/local/lib/python3.9/site-packages/google/api_core/_python_version_support.py:252: FutureWarning: You are using a Python version (3.9.25) past its end of life. Google will update google.api_core with critical bug fixes on a best-effort basis, but not with any other fixes or features. Please upgrade to the latest Python version, or at least Python 3.10, and then update google.api_core.
    warnings.warn(message, FutureWarning)
An error occurred: module 'importlib.metadata' has no attribute 'packages_distributions'
/usr/local/lib/python3.9/site-packages/google/api_core/_python_version_support.py:252: FutureWarning: You are using a Python version (3.9.25) past its end of life. Google will update google.cloud.bigquery_storage_v1 with critical bug fixes on a best-effort basis, but not with any other fixes or features. Please upgrade to the latest Python version, or at least Python 3.10, and then update google.cloud.bigquery_storage_v1.
    warnings.warn(message, FutureWarning)
An error occurred: module 'importlib.metadata' has no attribute 'packages_distributions'
/usr/local/lib/python3.9/site-packages/google/api_core/_python_version_support.py:252: FutureWarning: You are using a Python version (3.9.25) past its end of life. Google will update google.pubsub_v1 with critical bug fixes on a best-effort basis, but not with any other fixes or features. Please upgrade to the latest Python version, or at least Python 3.10, and then update google.pubsub_v1.
    warnings.warn(message, FutureWarning)
INFO:root:Missing pipeline option (runner). Executing pipeline using the default runner: DirectRunner.
INFO:apache_beam.io.iobase:*** WriteImpl min_shards undef so it's 1, and we write per Bundle
INFO:apache_beam.runners.worker.statecache:Creating state cache with size 104857600
INFO:apache_beam.io.filebasedsink:Starting finalize_write threads with num_shards: 1 (skipped: 0), batches: 1, num_threads: 1
INFO:apache_beam.io.filebasedsink:Renamed 1 shards in 0.01 seconds.
root@3918901f95fb:/#
```

3 18°C ENG IN 04:05 PM
Mostly sunny

Search ⏴

04:05 PM 27-12-2025

qwiklabs-g...d8-bucket - Cloud S +

https://console.cloud.google.com/storage/browser/qwiklabs-gcp-03-dd53462212d8-bucket;tab=objects?project=qwiklabs-gcp-03-dd53462212d8

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Google Cloud qwiklabs-gcp-03-dd53462212d8 Search (/) for resources, docs, products, and more Search

CLOUD SHELL Terminal (qwiklabs-gcp-03-dd53462212d8) + Open Editor |

```
numpy-2.0.2 oauth2client-4.1.3 objsize-0.7.1 opentelemetry-api-1.39.1 opentelemetry-resourcedetector-gcp-1.11.0a0 opentelemetry-sdk-1.39.1 opentelemetry-semantic-conventions-0.60b1 orjson-3.11.5 overrides-7.7.0 packaging-25.0 pandas-2.3.3 pluggy-1.6.0 proto-plus-1.27.0 protobuf-5.29.5 pyarrow-18.1.0 pyarrow-hotfix-0.7 pyasn1-0.6.1 pyasn1-modules-0.4.2 pycparser-2.23 pydantic-2.12.5 pydantic-core-2.41.5 pydot-1.4.2 pymilvus-2.5.18 pymongo-4.15.5 pyparsing-3.3.1 python-dateutil-2.9.0.post0 python-dotenv-1.2.1 pytz-2025.2 pyyaml-6.0.3 redis-5.3.1 referencing-0.36.2 regex-2025.11.3 requests-2.32.5 rpds-py-0.27.1 rsa-4.9.1 shapely-2.0.7 six-1.17.0 sortedcontainers-2.4.0 sqlparse-0.5.5 tenacity-9.1.2 tqdm-4.67.1 typing-extensions-4.15.0 typing-inspection-0.4.2 tzdata-2025.3 ujson-5.11.0 urllib3-2.6.2 websockets-15.0.1 zipp-3.23.0 zstandard-0.25.0
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager. It is recommended to use a virtual environment instead: https://pip.pypa.io/warnings/venv

[notice] A new release of pip is available: 23.0.1 -> 25.3
[notice] To update, run: pip install --upgrade pip
root@3918901f95fb:/# python -m apache_beam.examples.wordcount --output OUTPUT_FILE
An error occurred: module 'importlib.metadata' has no attribute 'packages_distributions'
/usr/local/lib/python3.9/site-packages/google/api_core/_python_version_support.py:252: FutureWarning: You are using a Python version (3.9.25) past its end of life. Google will update google.api_core with critical bug fixes on a best-effort basis, but not with any other fixes or features. Please upgrade to the latest Python version, or at least Python 3.10, and then update google.api_core.
    warnings.warn(message, FutureWarning)
An error occurred: module 'importlib.metadata' has no attribute 'packages_distributions'
/usr/local/lib/python3.9/site-packages/google/api_core/_python_version_support.py:252: FutureWarning: You are using a Python version (3.9.25) past its end of life. Google will update google.cloud.bigquery_storage_v1 with critical bug fixes on a best-effort basis, but not with any other fixes or features. Please upgrade to the latest Python version, or at least Python 3.10, and then update google.cloud.bigquery_storage_v1.
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/usr/local/lib/python3.9/site-packages/google/api_core/_python_version_support.py:252: FutureWarning: You are using a Python version (3.9.25) past its end of life. Google will update google.pubsub_v1 with critical bug fixes on a best-effort basis, but not with any other fixes or features. Please upgrade to the latest Python version, or at least Python 3.10, and then update google.pubsub_v1.
    warnings.warn(message, FutureWarning)
INFO:root:Missing pipeline option (runner). Executing pipeline using the default runner: DirectRunner.
INFO:apache_beam.io.iobase:*** WriteImpl min_shards undef so it's 1, and we write per Bundle
INFO:apache_beam.runners.worker.statecache:Creating state cache with size 104857600
INFO:apache_beam.io.filebasedsink:Starting finalize_write threads with num_shards: 1 (skipped: 0), batches: 1, num_threads: 1
INFO:apache_beam.io.filebasedsink:Renamed 1 shards in 0.01 seconds.
root@3918901f95fb:/#
root@3918901f95fb:/# ls
OUTPUT_FILE-00000-of-00001  bin  boot  dev  etc  home  lib  lib64  media  mnt  opt  proc  root  run  sbin  srv  sys  tmp  usr  var
root@3918901f95fb:/#
```

qwiklabs-g...d8-bucket – Cloud S +

https://console.cloud.google.com/storage/browser/qwiklabs-gcp-03-dd53462212d8-bucket;tab=objects?project=qwiklabs-gcp-03-dd53462212d8

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Google Cloud qwiklabs-gcp-03-dd53462212d8 Search (/) for resources, docs, products, and more Search

CLOUD SHELL Terminal (qwiklabs-gcp-03-dd53462212d8) Open Editor

```
decay: 2
sad: 2
steps: 1
all's: 1
cheerless: 1
fordone: 1
selves: 1
desperately: 1
bootless: 1
applied: 1
resign: 1
During: 1
absolute: 1
merited: 1
wages: 1
cup: 1
deservings: 1
hang'd: 1
Thou'l't: 1
button: 1
faints: 1
Break: 1
Vex: 1
ghost: 1
rack: 1
Stretch: 1
usurp'd: 1
Friends: 1
Rule: 1
gored: 1
journey: 1
weight: 1
ought: 1
oldest: 1
root@3918901f95fb:/# cat OUTPUT_FILE-00000-of-00001
```

qwiklabs-g...d8-bucket – Cloud S +

https://console.cloud.google.com/storage/browser/qwiklabs-gcp-03-dd53462212d8-bucket;tab=objects?project=qwiklabs-gcp-03-dd53462212d8

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Google Cloud qwiklabs-gcp-03-dd53462212d8

CLOUD SHELL Terminal (qwiklabs-gcp-03-dd53462212d8) +

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

Open Editor |

```
decay: 2
sad: 2
steps: 1
all's: 1
cheerless: 1
fordone: 1
selves: 1
desperately: 1
bootless: 1
applied: 1
resign: 1
During: 1
absolute: 1
merited: 1
wages: 1
cup: 1
deservings: 1
hang'd: 1
Thou'lt: 1
button: 1
faints: 1
Break: 1
Vex: 1
ghost: 1
rack: 1
Stretch: 1
usurp'd: 1
Friends: 1
Rule: 1
gored: 1
journey: 1
weight: 1
ought: 1
oldest: 1
root@3918901f95fb:/#
```

Prepare Data for ML APIs on Google Cloud

https://partner.skills.google/course_templates/631/labs/594530

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Google Skills Partner

Contents Dataflow: Qwik Start - Python

Lab setup instructions and requirements

End Lab 00:31:07 Time limit

Caution: When you are in the console, do not deviate from the lab instructions. Doing so may cause your account to be blocked. Learn more.

Open Google Cloud console

Username: student-02-77569a450c621

Password: 1gd108qixhdc

Project ID: qwiklabs-gcp-03-dd53462

Task 3. Run an example Dataflow pipeline remotely

1. Set the BUCKET environment variable to the bucket you created earlier:

```
BUCKET=gs://<bucket name provided earlier>
```

2. Now you'll run the wordcount.py example remotely:

```
python -m apache_beam.examples.wordcount --project $DEVSHELL_PROJECT_ID \
--runner DataflowRunner \
--staging_location $BUCKET/staging \
--temp_location $BUCKET/temp \
--output $BUCKET/results/output \
--region us-east4
```

Re-run the command until the job starts and you see the following message:

GSP207 Overview Setup and requirements Task 1. Create a Cloud Storage bucket Task 2. Install the Apache Beam SDK for Python Task 3. Run an example Dataflow pipeline remotely Task 4. Check that your Dataflow job succeeded Task 5. Test your understanding Congratulations!

50/100

Next >

18°C 3 Mostly sunny

Search

04:09 PM 27-12-2025

qwiklabs-g...d8-bucket – Cloud S +

https://console.cloud.google.com/storage/browser/qwiklabs-gcp-03-dd53462212d8-bucket;tab=objects?project=qwiklabs-gcp-03-dd53462212d8-bucket

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Google Cloud qwiklabs-gcp-03-dd53462212d8 Search (/) for resources, docs, products, and more Search

Cloud Storage Bucket details Edit bucket Go to path Refresh Marketplace Release Notes

Cloud Shell Terminal (qwiklabs-gcp-03-dd53462212d8)

Location Storage class Public access Protection

Open Editor

bootless: 1
applied: 1
resign: 1
During: 1
absolute: 1
merited: 1
wages: 1
cup: 1
deservings: 1
hang'd: 1
Thou'l't: 1
button: 1
faints: 1
Break: 1
Vex: 1
ghost: 1
rack: 1
Stretch: 1
usurp'd: 1
Friends: 1
Rule: 1
gored: 1
journey: 1
weight: 1
ought: 1
oldest: 1

```
root@3918901f95fb:/# BUCKET=gs://qwiklabs-gcp-03-dd53462212d8-bucket
root@3918901f95fb:/#
```

3 18°C ENG IN 04:09 PM 27-12-2025

qwiklabs-g...d8-bucket - Cloud S +

https://console.cloud.google.com/storage/browser/qwiklabs-gcp-03-dd53462212d8-bucket;tab=objects?project=qwiklabs-gcp-03-dd53462212d8&tab=objects

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Google Cloud qwiklabs-gcp-03-dd53462212d8 Search (/) for resources, docs, products, and more Search

CLOUD SHELL Terminal (qwiklabs-gcp-03-dd53462212d8) + Open Editor |

```
root@3918901f95fb:/# python -m apache_beam.examples.wordcount --project $DEVSHELL_PROJECT_ID \
--runner DataflowRunner \
--staging_location $BUCKET/staging \
--temp_location $BUCKET/temp \
--output $BUCKET/results/output \
--region us-east4
An error occurred: module 'importlib.metadata' has no attribute 'packages_distributions'
/usr/local/lib/python3.9/site-packages/google/api_core/_python_version_support.py:252: FutureWarning: You are using a Python version (3.9.25) past its end of life. Google will update google.api_core with critical bug fixes on a best-effort basis, but not with any other fixes or features. Please upgrade to the latest Python version, or at least Python 3.10, and then update google.api_core.
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An error occurred: module 'importlib.metadata' has no attribute 'packages_distributions'
/usr/local/lib/python3.9/site-packages/google/api_core/_python_version_support.py:252: FutureWarning: You are using a Python version (3.9.25) past its end of life. Google will update google.cloud.bigquery_storage_v1 with critical bug fixes on a best-effort basis, but not with any other fixes or features. Please upgrade to the latest Python version, or at least Python 3.10, and then update google.cloud.bigquery_storage_v1.
    warnings.warn(message, FutureWarning)
An error occurred: module 'importlib.metadata' has no attribute 'packages_distributions'
/usr/local/lib/python3.9/site-packages/google/api_core/_python_version_support.py:252: FutureWarning: You are using a Python version (3.9.25) past its end of life. Google will update google.pubsub_v1 with critical bug fixes on a best-effort basis, but not with any other fixes or features. Please upgrade to the latest Python version, or at least Python 3.10, and then update google.pubsub_v1.
    warnings.warn(message, FutureWarning)
INFO:root:Runner defaulting to pickling library: cloudpickle.
WARNING:apache_beam.options.pipeline_options:Bucket specified in temp_location has soft-delete policy enabled. To avoid being billed for unnecessary storage costs, turn off the soft delete feature on buckets that your Dataflow jobs use for temporary and staging storage. For more information, see https://cloud.google.com/storage/docs/use-soft-delete#remove-soft-delete-policy.
WARNING:apache_beam.options.pipeline_options:Bucket specified in staging_location has soft-delete policy enabled. To avoid being billed for unnecessary storage costs, turn off the soft delete feature on buckets that your Dataflow jobs use for temporary and staging storage. For more information, see https://cloud.google.com/storage/docs/use-soft-delete#remove-soft-delete-policy.
INFO:apache_beam.io.iobase:*** WriteImpl min_shards undef so it's 1, and we write per Bundle
WARNING:apache_beam.options.pipeline_options:Bucket specified in temp_location has soft-delete policy enabled. To avoid being billed for unnecessary storage costs, turn off the soft delete feature on buckets that your Dataflow jobs use for temporary and staging storage. For more information, see https://cloud.google.com/storage/docs/use-soft-delete#remove-soft-delete-policy.
WARNING:apache_beam.options.pipeline_options:Bucket specified in staging_location has soft-delete policy enabled. To avoid being billed for unnecessary storage costs, turn off the soft delete feature on buckets that your Dataflow jobs use for temporary and staging storage. For more information, see https://cloud.google.com/storage/docs/use-soft-delete#remove-soft-delete-policy.
```

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Search

04:10 PM 27-12-2025 ENG IN

Prepare Data for ML APIs on Google Cloud

https://partner.skills.google/course_templates/631/labs/594530

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Google Skills Partner

Contents Dataflow: Qwik Start - Python

Dashboard Catalog Paths Collections

Lab setup instructions and requirements

End Lab 00:25:42 Time limit

Caution: When you are in the console, do not deviate from the lab instructions. Doing so may cause your account to be blocked. Learn more.

Open Google Cloud console

Username: student-02-77569a450c62e

Password: 1gd108qixhdc

Project ID: qwiklabs-gcp-03-dd53462e

Task 4. Check that your Dataflow job succeeded

1. Open the Navigation menu and click Dataflow from the list of services. You should see your wordcount job with a status of Running at first.

2. Click on the name to watch the process. When all the boxes are checked off, you can continue watching the logs in Cloud Shell.

The process is complete when the status is Succeeded.

Test completed task

Click Check my progress to verify your performed task. If you have completed the task successfully you will be granted with an assessment score.

Run an Example Pipeline Remotely.

Check my progress

Assessment Completed!

GSP207 100/100

Overview Setup and requirements Task 1. Create a Cloud Storage bucket Task 2. Install the Apache Beam SDK for Python Task 3. Run an example Dataflow pipeline remotely Task 4. Check that your Dataflow job succeeded Task 5. Test your understanding Congratulations!

Previous Next

qwiklabs-g...d8-bucket – Cloud Storage Jobs – Dataflow – qwiklabs-gcp-03-dd53462212d8

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Google Cloud qwiklabs-gcp-03-dd53462212d8 Search (/) for resources, docs, products, and more Search

Dataflow / Jobs

Overview Monitoring Jobs Pipelines Workbench Snapshots Release Notes

Jobs + Create Job From Template + Create Job From Builder

Enable sorting Refresh Manage Learn

⚠ Dataflow jobs use Cloud Storage to store temporary files during pipeline execution. These files have soft delete policy enabled by default. To avoid being billed for unnecessary storage costs, turn off the soft delete feature on buckets that your Dataflow jobs use for temporary storage. [Learn more](#)

Dismiss

Running Archived Filter Filter jobs

Name	Type	End time	Elapsed time	Start time	Status	SDK version	ID	Region	Insights
beamapp-root-1227104319-538888-55g2nv3l	Batch		1 min 1 sec	Dec 27, 2025, 4:13:25PM	Running	2.67.0	2025-12-27_02_43_24-9862575585753257513	us-east4	
beamapp-root-1227103959-046544-cev882pl	Batch	Dec 27, 2025, 4:14:06 PM	4 min 1 sec	Dec 27, 2025, 4:10:05PM	Succeeded	2.67.0	2025-12-27_02_40_04-13907995230757870890	us-east4	

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Search

04:14 PM 27-12-2025 ENG IN

Prepare Data for ML APIs on Google Cloud

https://partner.skills.google/course_templates/631/labs/594530

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Google Skills Partner

Contents Dataflow: Qwik Start - Python

Dashboard Catalog Paths Collections

Lab setup instructions and requirements

End Lab 00:25:19 Time limit

Caution: When you are in the console, do not deviate from the lab instructions. Doing so may cause your account to be blocked. Learn more.

Open Google Cloud console

Username: student-02-77569a450c62e

Password: 1gd108qixhdc

Project ID: qwiklabs-gcp-03-dd53462

Click **Check my progress** to verify your performed task. If you have completed the task successfully you will be granted with an assessment score.

Run an Example Pipeline Remotely.

Check my progress

Assessment Completed!

3. Click **Navigation menu > Cloud Storage** in the Cloud Console.

4. Click on the name of your bucket. In your bucket, you should see the **results** and **staging** directories.

5. Click on the **results** folder and you should see the output files that your job created:

6. Click on a file to see the word counts it contains.

GSP207 100/100

Overview

Setup and requirements

Task 1. Create a Cloud Storage bucket

Task 2. Install the Apache Beam SDK for Python

Task 3. Run an example Dataflow pipeline remotely

Task 4. Check that your Dataflow job succeeded

Task 5. Test your understanding

Congratulations!

Task 5. Test your understanding

< Previous Next >

3 18°C Mostly sunny

Search

04:15 PM 27-12-2025

qwiklabs-g...d8-bucket – Cloud Storage qwiklabs-g...d8-bucket – Cloud Storage

https://console.cloud.google.com/storage/browser/qwiklabs-gcp-03-dd53462212d8-bucket/results?project=qwiklabs-gcp-03-dd53462212d8...

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Google Cloud qwiklabs-gcp-03-dd53462212d8 Search (/) for resources, docs, products, and more Search

Cloud Storage Bucket details Edit bucket Go to path Refresh

Overview Buckets Monitoring Settings

Storage Intelligence Insights datasets Configuration

Marketplace Release Notes

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Bucket details for **qwiklabs-gcp-03-dd53462212d8-bucket**

Location: us (multiple regions in United States) Storage class: Standard Public access: Not public Protection: Soft Delete

Objects Configuration Permissions Protection Lifecycle Observability New Inventory Reports Operations

Folder browser

Buckets > **qwiklabs-gcp-03-dd53462212d8-bucket** > results

Create folder Upload Transfer data Other services

Learn

Filter by name prefix only Filter objects and folders

Show Live objects only

Name	Size	Type	Created	Storage class	Last modified
output-00000-of-00001	48.9 KB	text/plain	Dec 27, 2025, 4:13:16 PM	Standard	Dec 27, 2025, 4:13:16 PM

18°C Mostly sunny

Search Calendar Chat Folder Microsoft Edge Firefox Python logo Camera Video Document Settings

ENG IN 04:15 PM 27-12-2025

Google Cloud qwiklabs-gcp-03-dd53462212d8 Search (/) for resources, docs, products, and more Search

Cloud Storage Object details

Buckets > qwiklabs-gcp-03-dd53462212d8-bucket > results > output-00000-of-00001

Live object Version history

Download Edit Metadata Edit Access Delete

Overview

Type	text/plain
Size	48.9 KB
Created	Dec 27, 2025, 4:13:16 PM
Last modified	Dec 27, 2025, 4:13:16 PM
Storage class	Standard
Custom time	–
Public URL	https://storage.googleapis.com/qwiklabs-gcp-03-dd53462212d8-bucket/results/output-00000-of-00001
Authenticated URL	https://storage.cloud.google.com/qwiklabs-gcp-03-dd53462212d8-bucket/results/output-00000-of-00001
gsutil URI	gs://qwiklabs-gcp-03-dd53462212d8-bucket/results/output-00000-of-00001 Copied

Permissions

Public access	Not public
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Protection

Version history	–
Retention expiration time	None
Object retention retain until time	None
Bucket retention retain until time	None

qwiklabs-g...d8-bucket – Cloud Stora | qwiklabs-g...-of-00001 – Object detail ff232b42692b19ae8e9799992c12 x +

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

feature: 1
block: 1
Cried: 1
scatter'd: 1
she: 44
sudden: 1
silly: 1
More: 6
'twill: 2
out: 68
believe: 3
extreme: 1
Blanket: 1
ones: 3
duteous: 1
sword: 17
pity: 10
law: 5
o'erpaid: 1
clay: 1
unfortunate: 1
Alack: 12
horrible: 2
All: 16
oldest: 1
nonny: 1
any: 18
Camelot: 1
blot: 1
trunk: 2
naked: 4
Do: 23
safer: 1
pluck'd: 1
remediate: 1
ought: 1
banners: 1
diffidences: 1
Are: 11
claim: 1
world's: 1
cap: 3
provoke: 1
pen: 1
meanest: 1



waked: 3
hereafter: 1
briefness: 1
blushed: 1
stay: 7
offices: 1
fops: 1
fret: 1
mix'd: 1
prefer: 1
Beat: 1
pight: 1
beaten: 2
summit: 1
grossly: 1
striving: 1
Fairest: 1
meats: 1
glove: 2
notice: 2
encounter: 1
bold: 4
Messenger: 10
knaves: 3
passion: 4
zswaggered: 1
meeting: 2
garb: 1
Dukes: 1
headlong: 1
cage: 1
needless: 1
patron: 2
spaniel: 1
FRANCE: 10
condemn'd: 1
corky: 1
dissuaded: 1
smile: 2
buzz: 1
Wherefore: 5
egg: 4
despised: 2
football: 1
gracious: 1

