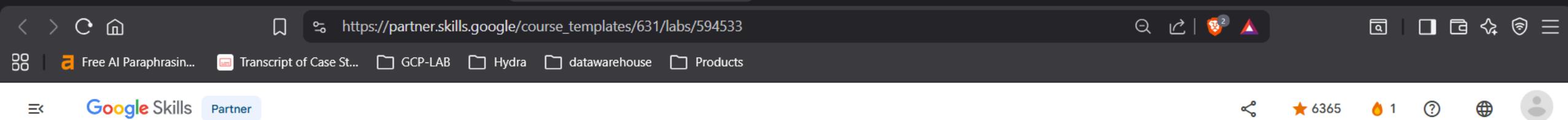


Cloud Natural Language API Qwik Start

GSP097



- Natural language processing (NLP) enables computers to understand and interact with human language like people do.
- The Cloud Natural Language API offers cloud-based NLP services to analyze text and extract meaningful insights.
- Key features include entity recognition to identify people, places, and objects in text.
- It provides sentiment analysis to detect positive, negative, or neutral tones in content.
- Additional capabilities cover information extraction for dates/prices and question answering via integrated REST API.



The screenshot shows a Google Cloud Qwik Start lab interface. On the left, there's a sidebar with 'Contents' and a dropdown menu set to 'Cloud Natural Language API: Qwik Start'. The main area has a timer at 00:59:48 with a 'Time limit' icon. A red button says 'End Lab'. Below it, a 'Caution' message warns against deviating from instructions. Buttons for 'Open Google Cloud console' and 'Student Resources' (with a link to 'Gain Valuable Insights from Text') are present. On the right, a terminal window shows the command 'gcloud auth list' with output: 'ACTIVE: *' and 'ACCOUNT: student-00-baf58f87cccd5@qwikelabs.net'. It also provides instructions to set the active account using 'gcloud config set account ACCOUNT'. Another terminal window shows the command 'gcloud config list project' with output: '[core]'. A vertical sidebar on the right lists 'Lab instructions and tasks' with items like 'GSP097', 'Overview', 'Setup and requirements', 'Task 1. Create an API key', 'Task 2. Make an entity analysis request', and 'Congratulations!'. A progress bar at the top right indicates '0/100' completed.

Contents

Cloud Natural Language API: Qwik Start

00:59:48
End Lab
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-00-baf58f87cccd5
Password: C5i0j5tWBCK3
Project ID: qwikelabs-gcp-03-7ccf8c1c

Student Resources

Gain Valuable Insights from Text

gcloud auth list

Copied!

4. Click **Authorize**.

Output:

```
ACTIVE: *
ACCOUNT: student-00-baf58f87cccd5@qwikelabs.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:

```
[core]
```

0/100

GSP097

Overview

Setup and requirements

Task 1. Create an API key

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Congratulations!

Lab instructions and tasks

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Dashboard – qwiklabs-gcp-03-7ccf8c1c6d73 x +

https://console.cloud.google.com/home/dashboard?project=qwiklabs-gcp-03-7ccf8c1c6d73&pli=1&cloudshell=true

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CLOUD SHELL Terminal (qwiklabs-gcp-03-7ccf8c1c6d73) + Open Editor

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

Don't show again Dismiss

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-03-7ccf8c1c6d73**.
Use `gcloud config set project [PROJECT_ID]` to change to a different project.
student_00_baf58f87ccd5@cloudshell:~ (qwiklabs-gcp-03-7ccf8c1c6d73)\$ gcloud auth list
Credentials
Accounted Accounts

ACTIVE: *
ACCOUNT: student-00-baf58f87ccd5@qwiklabs.net

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

student_00_baf58f87ccd5@cloudshell:~ (qwiklabs-gcp-03-7ccf8c1c6d73)\$ gcloud config list project
[core]
project = qwiklabs-gcp-03-7ccf8c1c6d73

Your active configuration is: [cloudshell-9567]
student_00_baf58f87ccd5@cloudshell:~ (qwiklabs-gcp-03-7ccf8c1c6d73)\$

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04:30 PM 28-12-2025 ENG US

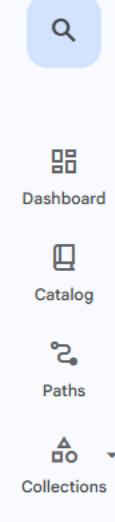
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Contents Cloud Natural Language API: Qwik Start



End Lab 00:56:50 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-00-baf5f87cccd5c
Password: C5i0j5tWBCK3
Project ID: quicklabs-gcp-03-7ccf8c1e

Student Resources: Gain Valuable Insights from Text

2. Next, create a new service account to access the Natural Language API:

```
gcloud iam service-accounts create my-natlang-sa \
--display-name "my natural language service account"
```

3. Then, create credentials to log in as your new service account. Create these credentials and save it as a JSON file "~/key.json" by using the following command:

```
gcloud iam service-accounts keys create ~/key.json \
--iam-account my-natlang-
sa@${GOOGLE_CLOUD_PROJECT}.iam.gserviceaccount.com
```

4. Finally, set the GOOGLE_APPLICATION_CREDENTIALS environment variable. The environment variable should be set to the full path of the credentials JSON file you created, which you can see in the output from the previous command:

```
export GOOGLE_APPLICATION_CREDENTIALS="/home/USER/key.json"
```

- Lab instructions and tasks 0/100
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- Overview
- Setup and requirements
- Task 1. Create an API key
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Dashboard – qwiklabs-gcp-03-7ccf8c1c6d73 x +

https://console.cloud.google.com/home/dashboard?project=qwiklabs-gcp-03-7ccf8c1c6d73&pli=1&cloudshell=true

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CLOUD SHELL Terminal (qwiklabs-gcp-03-7ccf8c1c6d73) + Open Editor

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

Don't show again Dismiss

```
student_00_baf58f87ccd5@cloudshell:~ (qwiklabs-gcp-03-7ccf8c1c6d73)$ export GOOGLE_CLOUD_PROJECT=$(gcloud config get-value core/project)
Your active configuration is: [cloudshell-9567]
student_00_baf58f87ccd5@cloudshell:~ (qwiklabs-gcp-03-7ccf8c1c6d73)$ gcloud iam service-accounts create my-natlang-sa \
--display-name "my natural language service account"
Created service account [my-natlang-sa].
student_00_baf58f87ccd5@cloudshell:~ (qwiklabs-gcp-03-7ccf8c1c6d73)$ gcloud iam service-accounts keys create ~/key.json \
--iam-account my-natlang-sa@$GOOGLE_CLOUD_PROJECT.iam.gserviceaccount.com
created key [70442412087d088633c62522f0854254b2ddbed0] of type [json] as [/home/student_00_baf58f87ccd5/key.json] for [my-natlang-sa@qwiklabs-gcp-03-7ccf8c1c6d73.iam.gserviceaccount.com]
student_00_baf58f87ccd5@cloudshell:~ (qwiklabs-gcp-03-7ccf8c1c6d73)$ export GOOGLE_APPLICATION_CREDENTIALS="/home/USER/key.json"
student_00_baf58f87ccd5@cloudshell:~ (qwiklabs-gcp-03-7ccf8c1c6d73)$
```

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00:54:52
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-00-baf5f87cccd5



Password

C5i0j5tWBCK3



Project ID

qwiklabs-gcp-03-7ccf8c1e



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Lab instructions and tasks

GSP097

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Task 1. Create an API key

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Congratulations!

Task 2. Make an entity analysis request

In order to perform next steps please connect to the instance provisioned for you via ssh. Open the navigation menu and select **Compute Engine**. You should see the following provisioned linux instance:

The screenshot shows the Google Cloud Compute Engine interface. On the left, there's a sidebar with options like 'Compute Engine', 'Virtual machines', 'VM instances', 'Instance templates', 'Schedule mode', 'Machine images', 'TPUs', 'Committed use discounts', and 'Reservations'. The main area is titled 'VM instances' and has tabs for 'INSTANCES', 'OBSERVABILITY', and 'INSTANCE SCHEDULES'. Under 'INSTANCES', there's a table with one row. The row shows the instance name 'true-instance', status 'Running', zone 'us-central1-a', recommendations, user 'student-00-baf5f87cccd5', internal IP '10.125.8.2', external IP '34.71.201.55', and SSH access. A 'Related actions' section includes a 'SSH' button. At the bottom, there's a 'SHOW' button.

1. Click on the **SSH** button. You will be brought to an interactive shell. **Remain in this SSH session for the rest of the lab.**

Now you'll try out the Natural Language API's entity analysis with the following sentence:

Michelangelo Caravaggio, Italian painter, is known for 'The Calling of Saint Matthew'

2. Run the following `gcloud` command:

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Contents Cloud Natural Language API: Qwik Start

Following provisioned VM instance.

End Lab 00:54:34 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-00-baf58f87cccd5e
Password: C5i0j5tWBCK3
Project ID: quicklabs-gcp-03-7ccf8c1e

Student Resources: Gain Valuable Insights from Text

Compute Engine VM instances CREATE INSTANCE IMPORT VM REFRESH

VM instances

Status	Name	Zone	Recommendations	Used by	Internal IP	External IP	Connect
Green	luna-vm-instance	us-central1-a		18226.0.2	34.71.201.58	http://	SSH

Related actions: Migrate to Virtual Machine...

1. Click on the SSH button. You will be brought to an interactive shell. **Remain in this SSH session for the rest of the lab.**

Now you'll try out the Natural Language API's entity analysis with the following sentence:

Michelangelo Caravaggio, Italian painter, is known for 'The Calling of Saint Matthew'

2. Run the following gcloud command:

```
gcloud ml language analyze-entities --content="Michelangelo Caravaggio, Italian painter, is known for 'The Calling of Saint Matthew'." > result.json
```

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VM instances – Compute Engine +

https://console.cloud.google.com/compute/instances?cloudshell=true&project=qwiklabs-gcp-03-7ccf8c1c6d73

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Compute Engine VM instances Create instance Import VM Refresh Learn

Overview Security risk overview

Virtual machines VM instances Instance templates Sole-tenant nodes Machine images TPUs Marketplace Release Notes

Cloud Shell Terminal (qwiklabs-gcp-03-7ccf8c1c6d73) Open Editor

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

Don't show again Dismiss

created key [70442412087d088633c62522f0854254b2ddbed0] of type [json] as [/home/student_00_baf58f87ccd5/key.json] for [my-natlang-sa@qwiklabs-gcp-03-7ccf8c1c6d73.iam.gserviceaccount.com]
student_00_baf58f87ccd5@cloudshell:~ (qwiklabs-gcp-03-7ccf8c1c6d73)\$ export GOOGLE_APPLICATION_CREDENTIALS="/home/USER/key.json"
student_00_baf58f87ccd5@cloudshell:~ (qwiklabs-gcp-03-7ccf8c1c6d73)\$

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CLOUD SHELL Terminal (qwiklabs-gcp-03-7ccf8c1c6d73)

Gemini CLI is available in Cloud Shell to

```
student_00_baf58f87ccd5@linux-instance:~$ gcloud ml language analyze-entities --content="Michelangelo Caravaggio, Italian painter, is known for 'The Calling of Saint Matthew'." > result.json
student_00_baf58f87ccd5@linux-instance:~$
```

ssh.cloud.google.com/v2/ssh/projects/qwiklabs-gcp-03-7ccf8c1c6d73/zones/us-east1-c/instances/linux-instance?authuser=0&hl=en_US... https://ssh.cloud.google.com/v2/ssh/projects/qwiklabs-gcp-03-7ccf8c1c6d73/zones/us-east1-c/instances/linux-instance?authuser=0&hl=en_US...

SSH-in-browser UPLOAD FILE DOWNLOAD FILE

Learn

Connect

SSH Show

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00:52:45
🕒 Time limit

Make an Entity Analysis Request

[Check my progress](#)

Assessment Completed!

100/100

Lab instructions and tasks

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Congratulations!

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-00-baf58f87cccd5e



Password

C5i0j5tWBCK3



Project ID

qwiklabs-gcp-03-7ccf8c1e



Student Resources

[Gain Valuable Insights from Text](#)

3. Run the below command to preview the output of result.json file:

cat result.json

You should see a response similar to the following in the result.json file:

```
{  
  "entities": [  
    {  
      "name": "Michelangelo Caravaggio",  
      "type": "PERSON",  
      "metadata": {  
        "wikipedia_url": "http://en.wikipedia.org/wiki/Caravaggio",  
        "mid": "/m/020bg"  
      },  
      "salience": 0.83047235,  
    }]
```

Check complete. Points earned: 50. Message: Assessment Completed!

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VM instances – Compute Engine

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Google Cloud qwiklabs-gcp-03-7ccf8c1c6d73

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CLOUD SHELL Terminal (qwiklabs-gcp-03-7ccf8c1c6d73)

Gemini CLI is available in Cloud Shell to

```
student_00_baf58f87ccd5@linux-instance:~$ cat result.json
{
  "entities": [
    {
      "mentions": [
        {
          "text": {
            "beginOffset": 0,
            "content": "Michelangelo Caravaggio"
          },
          "type": "PROPER"
        },
        {
          "text": {
            "beginOffset": 33,
            "content": "painter"
          },
          "type": "COMMON"
        }
      ],
      "metadata": {
        "mid": "/m/020bg",
        "wikipedia_url": "https://en.wikipedia.org/wiki/Caravaggio"
      },
      "name": "Michelangelo Caravaggio",
      "salience": 0.82904786,
      "type": "PERSON"
    },
    {
      "mentions": [
        {
          "text": {
            "beginOffset": 25,
            "content": "Italian"
          },
          "type": "PROPER"
        }
      ],
      "metadata": {}
    }
  ]
}
```

ssh.cloud.google.com/v2/ssh/projects/qwiklabs-gcp-03-7ccf8c1c6d73/zones/us-east1-c/instances/linux-instance?authuser=0&hl=en_US&... https://ssh.cloud.google.com/v2/ssh/projects/qwiklabs-gcp-03-7ccf8c1c6d73/zones/us-east1-c/instances/linux-instance?authuser=0&hl=en_US&...

SSH-in-browser UPLOAD FILE DOWNLOAD FILE

student_00_baf58f87ccd5@linux-instance:~\$

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Cloud Natural Language API Qwik Start - PowerPoint

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ssh.cloud.google.com/v2/ssh/projects/qwiklabs-gcp-03-7ccf8c1c6d73/zones/us-east1-c/instances/linux-instance?authuser=0&hl=en_US&... | https://ssh.cloud.google.com/v2/ssh/projects/qwiklabs-gcp-03-7ccf8c1c6d73/zones/us-east1-c/instances/linux-instance?authuser=0&hl=en_US&...

SSH-in-browser

UPLOAD FILE DOWNLOAD FILE

```
        "type": "PERSON"
    },
    {
        "mentions": [
            {
                "text": {
                    "beginOffset": 25,
                    "content": "Italian"
                },
                "type": "PROPER"
            }
        ],
        "metadata": {},
        "name": "Italian",
        "salience": 0.13981608,
        "type": "LOCATION"
    },
    {
        "mentions": [
            {
                "text": {
                    "beginOffset": 56,
                    "content": "The Calling of Saint Matthew"
                },
                "type": "PROPER"
            }
        ],
        "metadata": {
            "mid": "/m/085_p7",
            "wikipedia_url": "https://en.wikipedia.org/wiki/The_Calling_of_Saint_Matthew"
        },
        "name": "The Calling of Saint Matthew",
        "salience": 0.031136045,
        "type": "EVENT"
    },
    "language": "en"
}
student-00-baf58f87cccd5@linux-instance:~$
```

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