

```
gaureshgpai@cloudshell:~/cloud-function-storage (expi-452205)$ echo "This is a test file for uploading to Google Cloud Storage" > test-file.txt
gaureshgpai@cloudshell:~/cloud-function-storage (expi-452205)$ gcloud storage cp test-file.txt gs://gaureshs-cloud-function-bucket/
Copying file://test-file.txt to gs://gaureshs-cloud-function-bucket/test-file.txt
Completed files 1/1 | 58.0B/58.0B
gaureshgpai@cloudshell:~/cloud-function-storage (expi-452205)$ █
```

```
gaureshgpai@cloudshell:~/cloud-function-storage (expi-452205)$ gcloud functions logs read process_file --region=us-central1
LEVEL: WARNING
NAME: process-file
EXECUTION ID:
TIME UTC: 2025-03-13 06:30:28.118
LOG: The request was not authenticated. Either allow unauthenticated invocations or set the proper Authorization header. Read more at https://cloud.google.com/run/docs/securing/authenticating
Additional troubleshooting documentation can be found at: https://cloud.google.com/run/docs/troubleshooting#unauthorized-client

LEVEL: WARNING
NAME: process-file
EXECUTION ID:
TIME UTC: 2025-03-13 06:30:13.391
LOG: The request was not authenticated. Either allow unauthenticated invocations or set the proper Authorization header. Read more at https://cloud.google.com/run/docs/securing/authenticating
Additional troubleshooting documentation can be found at: https://cloud.google.com/run/docs/troubleshooting#unauthorized-client

LEVEL: WARNING
NAME: process-file
EXECUTION ID:
TIME UTC: 2025-03-13 06:27:30.223
LOG: The request was not authenticated. Either allow unauthenticated invocations or set the proper Authorization header. Read more at https://cloud.google.com/run/docs/securing/authenticating
Additional troubleshooting documentation can be found at: https://cloud.google.com/run/docs/troubleshooting#unauthorized-client

LEVEL: WARNING
NAME: process-file
EXECUTION ID:
TIME UTC: 2025-03-13 06:27:30.004
LOG: The request was not authenticated. Either allow unauthenticated invocations or set the proper Authorization header. Read more at https://cloud.google.com/run/docs/securing/authenticating
Additional troubleshooting documentation can be found at: https://cloud.google.com/run/docs/troubleshooting#unauthorized-client

LEVEL: I
NAME: process-file
EXECUTION ID:
TIME UTC: 2025-03-13 06:27:28.553
LOG: Default STARTUP TCP probe succeeded after 1 attempt for container "worker" on port 8080.

LEVEL: I
NAME: process-file
EXECUTION ID:
TIME UTC: 2025-03-13 06:24:15.669
LOG: Default STARTUP TCP probe succeeded after 1 attempt for container "worker" on port 8080.
```

```
gaureshgpai@cloudshell:~/cloud-function-storage (expi-452205)$ gcloud functions deploy process_file --region=us-central1
Preparing function...done.
X Updating function (may take a while)...
OK [Build] Logs are available at [https://console.cloud.google.com/cloud-build/builds;region=us-central1/2e9e4883-afe4-43df-9973-aa73394d0dc2?project=195837401262]
[Service]
. [Trigger]
. [ArtifactRegistry]
. [Healthcheck]
. [Triggercheck]
Completed with warnings:
[INFO] A new revision will be deployed serving with 100% traffic.
You can view your function in the Cloud Console here: https://console.cloud.google.com/functions/details/us-central1/process_file?project=expi-452205

buildConfig:
  automaticUpdatePolicy: {}
  build: projects/195837401262/locations/us-central1/builds/2e9e4883-afe4-43df-9973-aa73394d0dc2
  dockerRegistry: ARTIFACT_REGISTRY
  dockerRepository: projects/expi-452205/locations/us-central1/repositories/gcf-artifacts
  entryPoint: process_file
  runtime: python310
  serviceAccount: projects/expi-452205/serviceAccounts/195837401262-compute@developer.gserviceaccount.com
  sources:
    storageSource:
      bucket: gcf-v2-sources-195837401262-us-central1
      generation: '1741847488857327'
      object: process_file/function-source.zip
    sourceProvenance:
      resolvedStorageSource:
        bucket: gcf-v2-sources-195837401262-us-central1
        generation: '1741847488857327'
        object: process_file/function-source.zip
      createTime: '2025-03-13T06:15:23.827218772Z'
  environment: GEN_2
  eventTrigger:
    eventFilters:
      - attribute: bucket
        value: gaureshs-cloud-function-bucket
    eventType: google.cloud.storage.object.v1.finalized
  eventTrigger:
    eventFilters:
      - attribute: bucket
        value: gaureshs-cloud-function-bucket
    eventType: google.cloud.storage.object.v1.finalized
```

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```
object: process_file/function-source.zip
sourceProvenance:
  resolvedStorageSource:
    bucket: gcf-v2-sources-195837401262-us-central1
    generation: '1741847488857327'
    object: process_file/function-source.zip
  createTime: '2025-03-13T06:15:23.827218772Z'
  environment: GEN_2
  eventTrigger:
    eventFilters:
      - attribute: bucket
        value: gaureshs-cloud-function-bucket
    eventType: google.cloud.storage.object.v1.finalized
  pubsubTopic: projects/expi-452205/topics/eventarc-us-central1-process-file-087636-271
  retryPolicy: RETRY_POLICY_DO_NOT_RETRY
  serviceAccountEmail: 195837401262-compute@developer.gserviceaccount.com
  trigger: projects/expi-452205/locations/us-central1/triggers/process-file-087636
  triggerRegion: us-central1
labels:
  deployment-tool: cli-gcloud
  name: projects/expi-452205/locations/us-central1/functions/process_file
  satisfiesPai: true
serviceConfig:
  allTrafficOnLatestRevision: true
  availableCpu: '0.1666'
  availableMemory: 256M
  environmentVariables:
    LOG_EXECUTION_ID: 'true'
  ingressSettings: ALLOW_ALL
  maxInstanceCount: 100
  maxInstanceRequestConcurrency: 1
  revision: process-file-00003-rox
  service: projects/expi-452205/locations/us-central1/services/process-file
  serviceAccountEmail: 195837401262-compute@developer.gserviceaccount.com
  timeoutSeconds: 60
  uri: https://process-file-d2vey3nbg-auc.a.run.app
state: ACTIVE
updateTime: '2025-03-13T06:32:04.330416122Z'
url: https://us-central1-expi-452205.cloudfunctions.net/process_file
gaureshgpai@cloudshell:~/cloud-function-storage (expi-452205)$ █
```

```
gaureshgpai@cloudshell:~ (expi-452205)$ gcloud services enable cloudfunctions.googleapis.com storage.googleapis.com
sh
CopyEdit
gcloud services enable cloudfunctions.googleapis.com storage.googleapis.com
```

Operation "operations/acf.p2-195837401262-ed831d63-e142-4b6e-b40c-4d9cf149f665" finished successfully.

```
gareshgpai@cloudshell:~ (expl-452205)$ gcloud storage buckets create gs://gareshs-cloud-function-bucket --location=us-central1
Creating gs://gareshs-cloud-function-bucket/...
gareshgpai@cloudshell:~ (expl-452205)$
```

```
gareshgpai@cloudshell:~/cloud-function-storage (expl-452205)$ cat > main.py <<EOF
import functions_framework
```

```
@functions_framework.cloud_event
def process_file(event):
    """Triggered by a file upload to a Cloud Storage bucket."""

    # Extract bucket name and file name from the Cloud Event data
    bucket = event.data.get("bucket")
    file_name = event.data.get("name")

    # Print information about the uploaded file
    print(f"File {file_name} uploaded to bucket {bucket}")
```

EOF

```
gareshgpai@cloudshell:~/cloud-function-storage (expl-452205)$
```

```
gareshgpai@cloudshell:~/cloud-function-storage (expl-452205)$ gcloud functions deploy process_file \
--runtime python310 \
--trigger-event google.storage.object.finalize \
--trigger-resource gareshs-cloud-function-bucket \
--entry-point process_file \
--region us-central1 \
--gen2
Preparing function...done.
X Updating function (may take a while)...
OK [Build] Logs are available at [https://console.cloud.google.com/cloud-build/builds;region=us-central1/950dbd2f-07dd-4bba-9c2c-4061b8e31c22?project=195837401262]
[Service]
OK [Trigger]
. [ArtifactRegistry]
. [Healthcheck]
. [Triggercheck]
Completed with warnings:
[INFO] A new revision will be deployed serving with 100% traffic.
You can view your function in the Cloud Console here: https://console.cloud.google.com/functions/details/us-central1/process_file?project=expl-452205

buildConfig:
  automaticUpdatePolicy: {}
  build: projects/195837401262/locations/us-central1/builds/950dbd2f-07dd-4bba-9c2c-4061b8e31c22
  dockerRegistry: ARTIFACT_REGISTRY
  dockerRepository: projects/expl-452205/locations/us-central1/repositories/gcf-artifacts
  entryPoint: process_file
  runtime: python310
  serviceAccount: projects/expl-452205/serviceAccounts/195837401262-compute@developer.gserviceaccount.com
  source:
    storageSource:
      bucket: gcf-v2-sources-195837401262-us-central1
      generation: '1741847189382628'
      object: process_file/function-source.zip
    sourceProvenance:
      resolvedStorageSource:
        bucket: gcf-v2-sources-195837401262-us-central1
        generation: '1741847189382628'
        object: process_file/function-source.zip
      createTime: '2025-03-13T06:15:23.827218772Z'
```

```
object: process_file/function-source.zip
sourceProvenance:
  resolvedStorageSource:
    bucket: gcf-v2-sources-195837401262-us-central1
    generation: '1741847189382628'
    object: process_file/function-source.zip
createTime: '2025-03-13T06:15:23.827218772Z'
environment: GEN_2
eventTrigger:
  eventFilters:
    - attribute: bucket
      value: gareshs-cloud-function-bucket
  eventType: google.cloud.storage.object.v1.finalized
  pubsubTopic: projects/expl-452205/topics/eventarc-us-central1-process-file-087636-271
  retryPolicy: RETRY_POLICY_DO_NOT_RETRY
  serviceAccountEmail: 195837401262-compute@developer.gserviceaccount.com
  trigger: projects/expl-452205/locations/us-central1/triggers/process-file-087636
  triggerRegion: us-central1
labels:
  deployment-tool: cli-gcloud
  name: projects/expl-452205/locations/us-central1/functions/process_file
  satisfiesPzi: true
serviceConfig:
  allTrafficOnLatestRevision: true
  availableCpu: '0.1666'
  availableMemory: 256M
  environmentVariables:
    LOG_EXECUTION_ID: 'true'
  ingressSettings: ALLOW_ALL
  maxInstanceCount: 100
  maxInstanceRequestConcurrency: 1
  revision: process-file-00002-sox
  service: projects/expl-452205/locations/us-central1/services/process-file
  serviceAccountEmail: 195837401262-compute@developer.gserviceaccount.com
  timeoutSeconds: 60
  uri: https://process-file-d2vey3nbga-uc.a.run.app
state: ACTIVE
updateTime: '2025-03-13T06:27:41.829871034Z'
url: https://us-central1-expl-452205.cloudfunctions.net/process_file
gareshgpai@cloudshell:~/cloud-function-storage (expl-452205)$
```

```
gareshgpai@cloudshell:~/cloud-function-storage (expl-452205)$ gcloud functions delete process_file --region=us-central1
2nd gen function [projects/expl-452205/locations/us-central1/functions/process_file] will be deleted.
```

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

```
Preparing function...done.
OK Deleting function...
OK [Artifact Registry]
OK [Service]
OK [Trigger]
Done.
Deleted [projects/expl-452205/locations/us-central1/functions/process_file].
gareshgpai@cloudshell:~/cloud-function-storage (expl-452205)$
```