Docker build –help | grep 'Write the image ID to the file'

```
groot@meduza:~$ docker build --help
Usage: docker build [OPTIONS] PATH | URL | -
Build an image from a Dockerfile
Options:
          --add-host list
                                                   Add a custom host-to-IP mapping (host:ip)
          --build-arg list
                                                   Set build-time variables
                                                  Images to consider as cache sources
Optional parent cgroup for the container
Compress the build context using gzip
Limit the CPU CFS (Completely Fair Scheduler) period
Limit the CPU CFS (Completely Fair Scheduler) quota
          --cache-from strings
          --cgroup-parent string
          --compress
          --cpu-period int
          --cpu-quota int
                                                   CPU shares (relative weight)
CPUs in which to allow execution (0-3, 0,1)
    -c, --cpu-shares int
          --cpuset-cpus string
                                                   MEMs in which to allow execution (0-3, 0,1)
Skip image verification (default true)
Name of the Dockerfile (Default is 'PATH/Dockerfile')
          --cpuset-mems string
          --disable-content-trust
    -f, --file string
                                                  Always remove intermediate containers
Write the image ID to the file
          --force-rm
          --iidfile string
                                                   Container isolation technology
Set metadata for an image
          --isolation string
          --label list
                                                  Memory limit
Swap limit equal to memory plus swap: '-1' to enable unlimited swap
Set the networking mode for the RUN instructions during build (default "default")
    -m, --memory bytes
          --memory-swap bytes
          --network string
                                                  Do not use cache when building the image
Always attempt to pull a newer version of the image
Suppress the build output and print image ID on success
          --no-cache
          --pull
    -q, --quiet
                                                   Remove intermediate containers after a successful build (default true)
          -- rm
                                                  Security options
Size of /dev/shm
Squash newly built layers into a single new layer
Name and optionally a tag in the 'name:tag' format
Set the target build stage to build.
          --security-opt strings
          --shm-size bytes
          --squash
    -t, --tag list
         --target string
--ulimit ulimit
                                                  Ulimit options (default [])
 |root@meduza:~$ docker build --help | grep 'Write the image ID to the file'
--iidfile string Write the image ID to the file
 groot@meduza:~$
```



```
groot@meduza:/medua/groot/_data/gcpzooncamp$ sudo ls -al /var/lib/postgresql/
total 28
drwar-xr-x 5 postgres postgres 4999 Jan 20 10:19 .
drwar-xr-x 5 postgres postgres 4999 Jan 20 10:19 .
drwar-xr-x 5 postgres postgres 4999 Jan 20 10:19 .
drwar-xr-x 5 postgres postgres 4999 Jan 20 10:19 13
drwar-xr-x 1 postgres postgres 4999 Jan 1 20:49 15
drwar-xr-x 1 postgres postgres 4999 Jan 1 20:49 15
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drwar-xr-x 5 postgres postgres 4999 Jan 20:19 19
drwar-xr-x 3 postgres postgres 4999 Jan 20:19 11
drwar-xr-x 3 postgres postgres 4999 Jan 1 20:49 15
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drwar-xr-x 9 postgres postgres 4990 Jan 1 20:49 15
drwar-xr-x 9 postgres postgres 4990 Jan 20:49 15
drwar-xr-x 9 postgres postgres 4
```

```
table name = params.table name
              filename = params.filename
  20
              # for pandas to be able to open the file
                    csv name = 'output.csv'
              engine = create engine(f'postgresql://{user}:{password}@{host}:{port}/{db}')
              df iter = pd.read csv(filename, iterator=True, chunksize=100000)
              df = next(df iter)
                   df.lpep_pickup_datetime = pd.to_datetime(df.lpep_pickup_datetime)
                   df.lpep dropoff datetime = pd.to datetime(df.lpep dropoff datetime)
              df.head(n=0).to sql(name=table name, con=engine, if exists='replace')
              df.to_sql(name=table_name, con=engine, if_exists='append')
            OUTPUT DEBUG CONSOLE TERMINAL CODEWHISPERER REFERENCE LOG
                                                                                                                                           Q \equiv - \square \times
                                                                           groot@meduza: ~
groot@meduza:~$ python /media/groot/_data/ingest_data.py --user= --password= --host=local
t=5434 --db=ny_taxi --table_name=yellow_taxi_trips --filename= --,uownloads/green_tripdata_2019-01.csv
                                                                                                                                      --host=localhost --por
t=5434 --db=ny_taxi
inserted another chunk, took 4.479 second inserted another chunk, took 4.473 second
inserted another chunk, took 4.469 second inserted another chunk, took 4.511 second
inserted another chunk, took 4.539 second
inserted another chunk, took 4.559 Second
inserted another chunk, took 1.428 second
Finished ingesting data into the possesses database

groot@meduza: $ python /media/groot/_data/ingest_data.py --user-
--password=
t=5434 --db=ny_taxi --table_name=taxi_zones --filename='~/Downloads/taxi+_zone_lookup.csv'
                                                                                                                                      --host=localhost --por
Finished ingesting data into the postgres database
```



```
-- For the passengers picked up in the Astoria Zone which was the drop off zone that had the largest tip?
                  -- We want the name of the zone, not the id.
                  -- PULocationID
                  -- DOLocationID
                         from taxi_zones LocationID, Borough, Zone (this one is the name), service_zone
                  with pickups as (
    select ytt."PULocationID", max(ytt.tip_amount) as max_tip
                            from yellow_taxi_trips ytt
group by ytt."PULocationID"
having ytt."PULocationID" in
(select tz."LocationID"
                              from taxi_zones tz
                             where tz."Zone" = 'Astoria')
                  dropoffs as (
                             \textbf{select} \ \ \textbf{ytt."index", ytt.lpep\_pickup\_datetime, ytt.lpep\_dropoff\_datetime, ytt."PULocationID", ytt."DOLocationID", yt
                             ytt.trip_distance, ytt.fare_amount, ytt.tip_amount from yellow_taxi_trips ytt, pickups
                             where ytt.tip amount = pickups.max tip and ytt."PULocationID" in (select pickups."PULocationID" from pickups)
                  select df.index, df.lpep_pickup_datetime, df.lpep_dropoff_datetime, df."PULocationID", df."DOLocationID",
                  tz."Zone", df.trip_distance, df.fare_amount, df.tip_amount
                  from dropoffs df, taxi_zones tz
where tz."LocationID" = df."DOLocationID"
-- Long Island City/Queens Plaza
               ⊕ --select ytt."PULocationID", max(ytt.tip_amount) as max_tip
                  --from yellow_taxi_trips ytt
                  --group by ytt."PULocationID"
yellow_taxi_trips(+) 1 ×
                                                                                                                                                                                                                                                                                                        with pickups as (select ytt."PULocation 5. Enter a SQL expression to filter results (use Ctrl+Space)
                                            ② lpep_pickup_datetime ▼ ② lpep_dropoff_datetime ▼ 123 PULocationID
                                                                                                                                                                                                                          ▼ 123 DOLocationID
                                                                                                                                                                                                                                                                        ▼ RBC Zone
                                                                                                                                                                                                                                                                                                                                             ▼ 123 trip_distance
                                                      2019-01-26 00:46:06.000
                                                                                                                         2019-01-26 00:50:10.000
                                                                                                                                                                                                                                                                        146 Long Island City/Queens Plaza
```

```
mats_tumblebuns@cloudshell:~/tf-tutorial/gcpzoomcamp (gcpzoomcamp)$ terraform apply -var="project=gcpzoomcamp' google_bigquery_dataset.dataset: Refreshing state... [id=projects/gcpzoomcamp/datasets/trips_data_all] google_storage_bucket.data-lake-bucket: Refreshing state... [id=gcpzoomcamp]
Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
       create
Terraform will perform the following actions:
   # google_bigquery_dataset.dataset will be created
+ resource "google_bigquery_dataset" "dataset" {
             dataset" {

dataset_id = "trips_data_all"

delete_contents_on_destroy = false

etag - //
                                                             = (known after apply)
= (known after apply)
              labels
              last_modified_time
                                                            = (known after apply)
= "asia-east1"
              location
                                                             = "gcpzoomcamp"
             project
self_link
                                                            = (known after apply)
              access {
                    domain = (known after apply)
group_by_email = (known after apply)
role = (known after apply)
special_group = (known after apply)
user_by_email = (known after apply)
                    dataset {
                         + target_types = (known after apply)
                                  dataset_id = (known after apply)
project_id = (known after apply)
                     routine {
                           dataset_id = (known after apply)
project_id = (known after apply)
```

```
= (known after apply)
          project
                                              = (known after apply)
= (known after apply)
= "STANDARD"
          public_access_prevention
          self_link
          storage_class
          uniform_bucket_level_access = true
        + url
                                              = (known after apply)
       + lifecycle_rule {
             + action {
                  + type = "Delete"
             + condition {
                  + age
                                                 = 30
                  + matches_prefix = []
+ matches_storage_class = []
+ matches_suffix = []
+ with_state = (known after apply)
       Plan: 2 to add, 0 to change, 0 to destroy.
Do you want to perform these actions?
  Terraform will perform the actions described above. Only 'yes' will be accepted to approve.
  Enter a value: yes
google_bigquery_dataset.dataset: Creating...
google_storage_bucket.data-lake-bucket: Creating...
google_storage_bucket.data-lake-bucket: Creation complete after 3s [id=gcpzoomcamp]
google_bigquery_dataset.dataset: Creation complete after 3s [id=projects/gcpzoomcamp/datasets/trips_data_all]
Apply complete! Resources: 2 added, 0 changed, 0 destroyed.
mats_tumblebuns@cloudshell:~/tf-tutorial/gcpzoomcamp (gcpzoomcamp)$
```