


```
ahorathra@pes1ug20cs050: ~/task3
2023/02/07 09:32:13 [notice] 1#1: worker process 29 exited with code 0
2023/02/07 09:32:13 [notice] 1#1: exit
ahorathra@pes1ug20cs050:~/task3$ sudo docker build -t task3 .
[+] Building 0.2s (7/7) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 83B
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load metadata for docker.io/library/nginx:latest
=> [internal] load build context
=> => transferring context: 150B
=> CACHED [1/2] FROM docker.io/library/nginx
=> [2/2] COPY my.html /usr/share/nginx/html
=> exporting to image
=> => exporting layers
=> => writing image sha256:091ddf315a9ee9576981b31adb26f3606babf1bfafc8e567aa64c1177aec407
=> => naming to docker.io/library/task3
ahorathra@pes1ug20cs050:~/task3$ sudo docker run -p 80:80 task3
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration
/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh
10-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/nginx/conf.d/default.conf
10-listen-on-ipv6-by-default.sh: info: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf
/docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh
/docker-entrypoint.sh: Configuration complete; ready for start up
2023/02/07 09:33:21 [notice] 1#1: using the "epoll" event method
2023/02/07 09:33:21 [notice] 1#1: nginx/1.23.3
2023/02/07 09:33:21 [notice] 1#1: built by gcc 10.2.1 20210110 (Debian 10.2.1-6)
2023/02/07 09:33:21 [notice] 1#1: OS: Linux 5.15.0-58-generic
2023/02/07 09:33:21 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576
2023/02/07 09:33:21 [notice] 1#1: start worker processes
2023/02/07 09:33:21 [notice] 1#1: start worker process 29
2023/02/07 09:33:21 [notice] 1#1: start worker process 30
2023/02/07 09:33:21 [notice] 1#1: start worker process 31
2023/02/07 09:33:21 [notice] 1#1: start worker process 32
172.17.0.1 - - [07/Feb/2023:09:33:28 +0000] "GET /my.html HTTP/1.1" 200 116 "-" "Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:108.0) Gecko/20100101 Firefox/108.0"
2023/02/07 09:33:53 [notice] 1#1: signal 28 (SIGWINCH) received
2023/02/07 09:33:54 [notice] 1#1: signal 28 (SIGWINCH) received
```

My SRN is PES1UG20CS050

I am running a nginx container!

```
ahorathra@pes1ug20cs050: ~/task3
{
  "Networks": {
    "bridge": {
      "IPAMConfig": null,
      "Links": null,
      "Aliases": null,
      "NetworkID": "bbe822f36817beb0bfc15ebca08f9c1c8aa0bcf5fc2ce7bbd3784900c7ddea3",
      "EndpointID": "b21ce6b980d18ae8f5a2142badca636b2af2ec1e8a21838e60d3eaa207b37d0",
      "Gateway": "172.17.0.1",
      "IPAddress": "172.17.0.2",
      "IPPrefixLen": 16,
      "IPv6Gateway": "",
      "GlobalIPv6Address": "",
      "GlobalIPv6PrefixLen": 0,
      "MacAddress": "02:42:ac:11:00:02",
      "DriverOpts": null
    }
  }
}
ahorathra@pes1ug20cs050:~/task3$ sudo docker build -t task3 .
[+] Building 12.6s (9/9) FINISHED
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 150B
=> [internal] load metadata for docker.io/library/python:latest
=> [1/4] FROM docker.io/library/python
=> [internal] load build context
=> => transferring context: 448B
=> [2/4] RUN apt-get update
=> [3/4] RUN pip install pymongo
=> [4/4] COPY sample.py sample.py
=> exporting to image
=> => exporting layers
=> => writing image sha256:0f8248fb1072fa91ead9bc56ce2d938f0ff9bcd16550726fa9bf92b0a643ca6b
=> => naming to docker.io/library/task3
ahorathra@pes1ug20cs050:~/task3$ sudo docker run task3
Inserted into the MongoDB database!
Fetched from MongoDB: {'_id': ObjectId('63e21c8b9c34308e2967cc15'), 'Name': 'Aneesh N A', 'SRN': 'PES1UG20CS050'}
ahorathra@pes1ug20cs050:~/task3$
```

```
ahorathra@peslug20cs050:~/task3$ sudo docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES
8f3214cba5dc   mongo:latest   "docker-entrypoint.s..." 24 seconds ago Up 23 seconds 0.0.0.0:27017->27017/tcp, :::27017->27017/tcp   mongod
14710a9a1545   task3          "python sample.py"        3 minutes ago Exited (0) 3 minutes ago                    flambo
yant_pike      91fb8ef10d55   mongo                "docker-entrypoint.s..." 6 minutes ago Exited (0) About a minute ago                laughi
ng_chandrasekhar b692d97e61b8   091ddf315a9e         "/docker-entrypoint..." 10 minutes ago Exited (0) 8 minutes ago                    vigila
4e59d3766f2a   8a3b43f0f9dc   "/docker-entrypoint..." 12 minutes ago Exited (0) 11 minutes ago                trusti
ng_sammet      c6be36cadb44   task2                "/.a.out"             32 minutes ago Exited (0) 32 minutes ago                revere
nt_jang        294a18c8e8a1   41fff7902e93c       "/bin/sh -c [\"/a.ou..." 34 minutes ago Exited (127) 34 minutes ago                jovial
ce0ad6082ef1   hello-world    "/hello"              54 minutes ago Exited (0) 54 minutes ago                hopefu
l_ganguly
ahorathra@peslug20cs050:~/task3$
```

```
ahorathra@peslug20cs050:~/task3$ sudo docker build -t task3 .
[+] Building 0.2s (9/9) FINISHED
=> [internal] load build definition from Dockerfile                                0.0s
=> => transferring dockerfile: 150B                                              0.0s
=> [internal] load .dockerignore                                                  0.0s
=> => transferring context: 2B                                                    0.0s
=> [internal] load metadata for docker.io/library/python:latest                 0.0s
=> [1/4] FROM docker.io/library/python                                          0.0s
=> [internal] load build context                                                 0.0s
=> => transferring context: 448B                                                 0.0s
=> CACHED [2/4] RUN apt-get update                                              0.0s
=> CACHED [3/4] RUN pip install pymongo                                        0.0s
=> [4/4] COPY sample.py sample.py                                              0.0s
=> exporting to image                                                            0.0s
=> => exporting layers                                                            0.0s
=> => writing image sha256:e3170ef8d229ab472601a9832df0d6b27b429b8a5666d37f19b5b5f08354 0.0s
=> => naming to docker.io/library/task3                                          0.0s
ahorathra@peslug20cs050:~/task3$ sudo docker run --network=bridge --network task3
Inserted into the MongoDB database!
Fetched from MongoDB: {'_id': ObjectId('63e21dec84738874f015dc3'), 'Name': 'Aneesh N A', 'SRN': 'PES1UG20CS050'}
ahorathra@peslug20cs050:~/task3$
```

```
ahorathra@peslug20cs050:~/task4
task4-mongodb-1 | {"t":{"$date":"2023-02-07T09:58:02.103+00:00"},"s":"I", "c":"","STORAGE", "id":20320, "ctx":"LogicalSessionCacheRefresh","msg":"createCollection","attr":{"namespace":"config.system.sessions","uuidDisposition":"generated","uuid":{"uuid":{"$uuid":"feblbael-9911-4845-8414-bbcf48116aea"},"options":{}}}}
task4-mongodb-1 | {"t":{"$date":"2023-02-07T09:58:02.128+00:00"},"s":"I", "c":"INDEX", "id":20345, "ctx":"LogicalSessionCacheRefresh","msg":"Index build: done building","attr":{"buildUUID":null,"collectionUUID":{"uuid":{"$uuid":"feblbael-9911-4845-8414-bbcf48116aea"},"namespace":"config.system.sessions","index":{"_id","index":{"index-5--2377223652717393723","collectionId":"collection-4--2377223652717393723","commitTimestamp":null}}},"$id":"$id","$index":{"index-5--2377223652717393723","collectionId":"collection-4--2377223652717393723","commitTimestamp":null}}}}
task4-mongodb-1 | {"t":{"$date":"2023-02-07T09:58:02.128+00:00"},"s":"I", "c":"INDEX", "id":20345, "ctx":"LogicalSessionCacheRefresh","msg":"Index build: done building","attr":{"buildUUID":null,"collectionUUID":{"uuid":{"$uuid":"feblbael-9911-4845-8414-bbcf48116aea"},"namespace":"config.system.sessions","index":{"_id","index":{"index-6--2377223652717393723","collectionId":"collection-4--2377223652717393723","commitTimestamp":null}}},"$id":"$id","$index":{"index-6--2377223652717393723","collectionId":"collection-4--2377223652717393723","commitTimestamp":null}}}}
task4-mongodb-1 | {"t":{"$date":"2023-02-07T09:58:02.302+00:00"},"s":"I", "c":"NETWORK", "id":22943, "ctx":"listener","msg":"Connection accepted","attr":{"remote":"172.19.0.3:40764","client":"conn1","doc":{"driver":{"name":"PyMongo","version":"4.3.3"},"os":{"type":"Linux","name":"Linux","architecture":"x86_64","version":"5.15.0-58-generic"},"platform":"CPython 3.11.1.final.0"}},"connectionId":1,"connectionCount":1}}
task4-mongodb-1 | {"t":{"$date":"2023-02-07T09:58:02.303+00:00"},"s":"I", "c":"NETWORK", "id":51800, "ctx":"conn1","msg":"client metadata","attr":{"remote":"172.19.0.3:40764","client":"conn1","doc":{"driver":{"name":"PyMongo","version":"4.3.3"},"os":{"type":"Linux","name":"Linux","architecture":"x86_64","version":"5.15.0-58-generic"},"platform":"CPython 3.11.1.final.0"}}}}
task4-mongodb-1 | {"t":{"$date":"2023-02-07T09:58:02.306+00:00"},"s":"I", "c":"NETWORK", "id":22943, "ctx":"listener","msg":"Connection accepted","attr":{"remote":"172.19.0.3:40774","client":"conn2","doc":{"driver":{"name":"PyMongo","version":"4.3.3"},"os":{"type":"Linux","name":"Linux","architecture":"x86_64","version":"5.15.0-58-generic"},"platform":"CPython 3.11.1.final.0"}}}}
task4-mongodb-1 | {"t":{"$date":"2023-02-07T09:58:02.306+00:00"},"s":"I", "c":"NETWORK", "id":22943, "ctx":"listener","msg":"Connection accepted","attr":{"remote":"172.19.0.3:40788","client":"conn3","doc":{"driver":{"name":"PyMongo","version":"4.3.3"},"os":{"type":"Linux","name":"Linux","architecture":"x86_64","version":"5.15.0-58-generic"},"platform":"CPython 3.11.1.final.0"}}}}
task4-mongodb-1 | {"t":{"$date":"2023-02-07T09:58:02.307+00:00"},"s":"I", "c":"NETWORK", "id":51800, "ctx":"conn3","msg":"client metadata","attr":{"remote":"172.19.0.3:40774","client":"conn2","doc":{"driver":{"name":"PyMongo","version":"4.3.3"},"os":{"type":"Linux","name":"Linux","architecture":"x86_64","version":"5.15.0-58-generic"},"platform":"CPython 3.11.1.final.0"}}}}
task4-mongodb-1 | {"t":{"$date":"2023-02-07T09:58:02.307+00:00"},"s":"I", "c":"NETWORK", "id":51800, "ctx":"conn2","msg":"client metadata","attr":{"remote":"172.19.0.3:40774","client":"conn2","doc":{"driver":{"name":"PyMongo","version":"4.3.3"},"os":{"type":"Linux","name":"Linux","architecture":"x86_64","version":"5.15.0-58-generic"},"platform":"CPython 3.11.1.final.0"}}}}
task4-mongodb-1 | {"t":{"$date":"2023-02-07T09:58:02.308+00:00"},"s":"I", "c":"STORAGE", "id":20320, "ctx":"conn2","msg":"createCollection","attr":{"namespace":"sample_db.sample_collection","uuidDisposition":"generated","uuid":{"uuid":{"$uuid":"8ba66109-a5cc-42c7-b294-149861337fe0"},"options":{}}},"$id":"$id","$index":{"index-6--2377223652717393723","collectionId":"collection-7--2377223652717393723","commitTimestamp":null}}}}
task4-mongodb-1 | {"t":{"$date":"2023-02-07T09:58:02.326+00:00"},"s":"I", "c":"INDEX", "id":20345, "ctx":"conn2","msg":"Index build: done building","attr":{"buildUUID":null,"collectionUUID":{"uuid":{"$uuid":"8ba66109-a5cc-42c7-b294-149861337fe0"},"namespace":"sample_db.sample_collection","index":{"_id","index":{"index-6--2377223652717393723","collectionId":"collection-7--2377223652717393723","commitTimestamp":null}}},"$id":"$id","$index":{"index-6--2377223652717393723","collectionId":"collection-7--2377223652717393723","commitTimestamp":null}}}}
task4-pycode-1 | Inserted into the MongoDB database!
task4-pycode-1 | Fetched from MongoDB: {'_id': ObjectId('63e220a9b4c1d389eb86dc10'), 'Name': 'Aneesh N A', 'SRN': 'PES1UG20CS050'}
task4-mongodb-1 | {"t":{"$date":"2023-02-07T09:58:02.806+00:00"},"s":"I", "c":"","", "id":20883, "ctx":"conn1","msg":"Interrupted operation as its client disconnected","attr":{"opid":15}}
task4-mongodb-1 | {"t":{"$date":"2023-02-07T09:58:02.807+00:00"},"s":"I", "c":"NETWORK", "id":22944, "ctx":"conn1","msg":"Connection ended","attr":{"remote":"172.19.0.3:40764","client":"conn1","doc":{"driver":{"name":"PyMongo","version":"4.3.3"},"os":{"type":"Linux","name":"Linux","architecture":"x86_64","version":"5.15.0-58-generic"},"platform":"CPython 3.11.1.final.0"}},"connectionId":1,"connectionCount":2}}
task4-mongodb-1 | {"t":{"$date":"2023-02-07T09:58:02.814+00:00"},"s":"I", "c":"NETWORK", "id":22944, "ctx":"conn2","msg":"Connection ended","attr":{"remote":"172.19.0.3:40774","client":"conn2","doc":{"driver":{"name":"PyMongo","version":"4.3.3"},"os":{"type":"Linux","name":"Linux","architecture":"x86_64","version":"5.15.0-58-generic"},"platform":"CPython 3.11.1.final.0"}},"connectionId":2,"connectionCount":1}}
task4-mongodb-1 | {"t":{"$date":"2023-02-07T09:58:02.814+00:00"},"s":"I", "c":"NETWORK", "id":22944, "ctx":"conn3","msg":"Connection ended","attr":{"remote":"172.19.0.3:40788","client":"conn3","doc":{"driver":{"name":"PyMongo","version":"4.3.3"},"os":{"type":"Linux","name":"Linux","architecture":"x86_64","version":"5.15.0-58-generic"},"platform":"CPython 3.11.1.final.0"}},"connectionId":3,"connectionCount":0}}
task4-pycode-1 exited with code 0
```

```
ahorathra@pes1ug20cs050: ~/task4
e": "172.19.0.4:55588", "client": "conn2", "doc": {"driver": {"name": "PyMongo", "version": "4.3.3"}, "os": {"type": "Linux", "name": "Linux", "architecture": "x86_64", "version": "5.15.0-58-generic"}, "platform": "CPython 3.11.1.final.0"}}
task4-pycode-2 | Inserted into the MongoDB database!
task4-pycode-2 | Fetched from MongoDB: {'_id': ObjectId('63e220a9b4c1d389eb86dc10'), 'Name': 'Aneesh N A', 'SRN': 'PES1UG20CS050'}
task4-mongodb-1 | {"t":{"sdate":"2023-02-07T10:00:11.677+00:00"},"s":"I", "c":"NETWORK", "id":22943, "ctx":"listener","msg":"Connection accepted","attr":{"remote":"172.19.0.5:35260","uid":"fa57659c-26ce-49fc-908f-6cb1076dfe76","connectionId":4,"connectionCount":4}}
task4-mongodb-1 | {"t":{"sdate":"2023-02-07T10:00:11.677+00:00"},"s":"I", "c":"NETWORK", "id":51800, "ctx":"conn4","msg":"client metadata","attr":{"remote":"172.19.0.5:35260","client":"conn4","doc":{"driver":{"name":"PyMongo","version":"4.3.3"},"os":{"type":"Linux","name":"Linux","architecture":"x86_64","version":"5.15.0-58-generic"},"platform":"CPython 3.11.1.final.0"}}}}
task4-mongodb-1 | {"t":{"sdate":"2023-02-07T10:00:11.679+00:00"},"s":"I", "c":"NETWORK", "id":22943, "ctx":"listener","msg":"Connection accepted","attr":{"remote":"172.19.0.5:35260","uid":"78772377-2eda-43c7-9c17-b842a9535c76","connectionId":5,"connectionCount":5}}
task4-mongodb-1 | {"t":{"sdate":"2023-02-07T10:00:11.679+00:00"},"s":"I", "c":"NETWORK", "id":22943, "ctx":"listener","msg":"Connection accepted","attr":{"remote":"172.19.0.5:35282","uid":"37e085e4-2c39-44da-92e8-1512659706b5","connectionId":6,"connectionCount":6}}
task4-mongodb-1 | {"t":{"sdate":"2023-02-07T10:00:11.679+00:00"},"s":"I", "c":"NETWORK", "id":51800, "ctx":"conn5","msg":"client metadata","attr":{"remote":"172.19.0.5:35260","client":"conn5","doc":{"driver":{"name":"PyMongo","version":"4.3.3"},"os":{"type":"Linux","name":"Linux","architecture":"x86_64","version":"5.15.0-58-generic"},"platform":"CPython 3.11.1.final.0"}}}}
task4-mongodb-1 | {"t":{"sdate":"2023-02-07T10:00:11.679+00:00"},"s":"I", "c":"NETWORK", "id":51800, "ctx":"conn6","msg":"client metadata","attr":{"remote":"172.19.0.5:35282","client":"conn6","doc":{"driver":{"name":"PyMongo","version":"4.3.3"},"os":{"type":"Linux","name":"Linux","architecture":"x86_64","version":"5.15.0-58-generic"},"platform":"CPython 3.11.1.final.0"}}}}
task4-pycode-3 | Inserted into the MongoDB database!
task4-pycode-3 | Fetched from MongoDB: {'_id': ObjectId('63e220a9b4c1d389eb86dc10'), 'Name': 'Aneesh N A', 'SRN': 'PES1UG20CS050'}
task4-mongodb-1 | {"t":{"sdate":"2023-02-07T10:00:11.703+00:00"},"s":"I", "c":"NETWORK", "id":22943, "ctx":"listener","msg":"Connection accepted","attr":{"remote":"172.19.0.3:44496","uid":"ef6f067f-6553-4541-bbb6-25defd3e5f46","connectionId":7,"connectionCount":7}}
task4-mongodb-1 | {"t":{"sdate":"2023-02-07T10:00:11.703+00:00"},"s":"I", "c":"NETWORK", "id":51800, "ctx":"conn7","msg":"client metadata","attr":{"remote":"172.19.0.3:44496","client":"conn7","doc":{"driver":{"name":"PyMongo","version":"4.3.3"},"os":{"type":"Linux","name":"Linux","architecture":"x86_64","version":"5.15.0-58-generic"},"platform":"CPython 3.11.1.final.0"}}}}
task4-mongodb-1 | {"t":{"sdate":"2023-02-07T10:00:11.706+00:00"},"s":"I", "c":"NETWORK", "id":22943, "ctx":"listener","msg":"Connection accepted","attr":{"remote":"172.19.0.3:44500","uid":"a5cefd36-99f1-445d-9329-06452ba359ab","connectionId":8,"connectionCount":8}}
task4-mongodb-1 | {"t":{"sdate":"2023-02-07T10:00:11.707+00:00"},"s":"I", "c":"NETWORK", "id":22943, "ctx":"listener","msg":"Connection accepted","attr":{"remote":"172.19.0.3:44508","uid":"a651504b-d16f-4c7a-9a4d-05deb4454ad3","connectionId":9,"connectionCount":9}}
task4-mongodb-1 | {"t":{"sdate":"2023-02-07T10:00:11.707+00:00"},"s":"I", "c":"NETWORK", "id":51800, "ctx":"conn9","msg":"client metadata","attr":{"remote":"172.19.0.3:44508","client":"conn9","doc":{"driver":{"name":"PyMongo","version":"4.3.3"},"os":{"type":"Linux","name":"Linux","architecture":"x86_64","version":"5.15.0-58-generic"},"platform":"CPython 3.11.1.final.0"}}}}
task4-mongodb-1 | {"t":{"sdate":"2023-02-07T10:00:11.709+00:00"},"s":"I", "c":"NETWORK", "id":51800, "ctx":"conn8","msg":"client metadata","attr":{"remote":"172.19.0.3:44500","client":"conn8","doc":{"driver":{"name":"PyMongo","version":"4.3.3"},"os":{"type":"Linux","name":"Linux","architecture":"x86_64","version":"5.15.0-58-generic"},"platform":"CPython 3.11.1.final.0"}}}}
task4-pycode-1 | Inserted into the MongoDB database!
task4-pycode-1 | Fetched from MongoDB: {'_id': ObjectId('63e220a9b4c1d389eb86dc10'), 'Name': 'Aneesh N A', 'SRN': 'PES1UG20CS050'}
task4-mongodb-1 | {"t":{"sdate":"2023-02-07T10:00:11.770+00:00"},"s":"I", "c":"-", "id":20883, "ctx":"conn1","msg":"Interrupted operation as its client disconnected","attr":{"opId":141}}
task4-mongodb-1 | {"t":{"sdate":"2023-02-07T10:00:11.771+00:00"},"s":"I", "c":"NETWORK", "id":22944, "ctx":"conn1","msg":"Connection ended","attr":{"remote":"172.19.0.4:55588","uid":"fa57659c-26ce-49fc-908f-6cb1076dfe76","connectionId":3,"connectionCount":3}}
```