

Cloud Computing
UE19CS352
6th Semester, Academic Year 2021-22

Week #: 3 - Docker

Date: 26/2/2022

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1a.jpg: Screenshot of running docker hello-world.

```
sumukhbhat2701@SRBs-PC$ sudo docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
2db29710123e: Pull complete
Digest: sha256:97a379f4f88575512824f3b352bc03cd75e239179eea0fecc38e597b2209f49a
Status: Downloaded newer image for hello-world:latest

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
 1. The Docker client contacted the Docker daemon.
 2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
    (amd64)
 3. The Docker daemon created a new container from that image which runs the
    executable that produces the output you are currently reading.
 4. The Docker daemon streamed that output to the Docker client, which sent it
    to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash

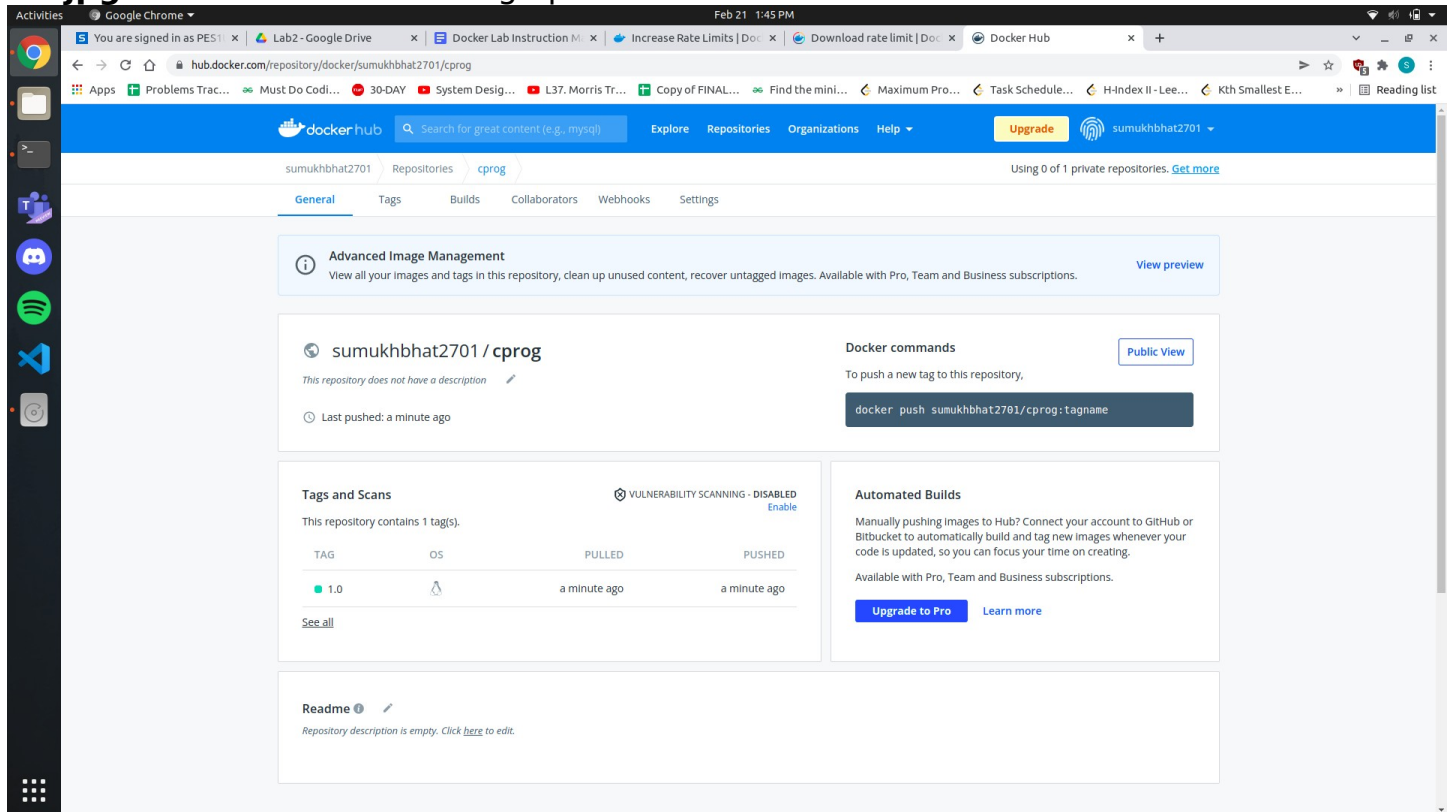
Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/

For more examples and ideas, visit:
https://docs.docker.com/get-started/
```

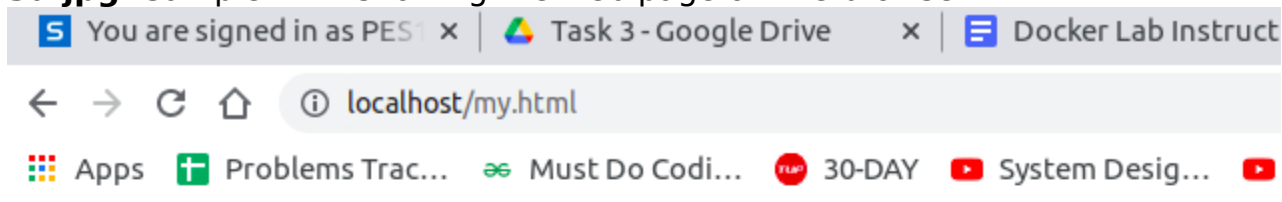
2a.jpg: Screenshot of C Program successfully run inside the container.

```
sumukhbhat2701@SRBs-PC$ sudo docker run cprog
Running this inside a container !
My SRN is PES1UG19CS519
sumukhbhat2701@SRBs-PC$
```

2b.jpg: Screenshot of the image pushed to Dockerhub.



3a.jpg: Sample.html showing the web page on the browser.



3b.jpg: Screenshot of docker container running nginx

```
sumukhbhat2701@SRBs-PC$ sudo docker run -p 80:80 mynginx
/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
2022/02/21 08:19:02 [notice] 1#1: using the "epoll" event method
2022/02/21 08:19:02 [notice] 1#1: nginx/1.21.6
2022/02/21 08:19:02 [notice] 1#1: built by gcc 10.2.1 20210110 (Debian 10.2.1-6)
2022/02/21 08:19:02 [notice] 1#1: OS: Linux 5.13.0-28-generic
2022/02/21 08:19:02 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576
2022/02/21 08:19:02 [notice] 1#1: start worker processes
2022/02/21 08:19:02 [notice] 1#1: start worker process 32
2022/02/21 08:19:02 [notice] 1#1: start worker process 33
2022/02/21 08:19:02 [notice] 1#1: start worker process 34
2022/02/21 08:19:02 [notice] 1#1: start worker process 35
2022/02/21 08:19:02 [notice] 1#1: start worker process 36
2022/02/21 08:19:02 [notice] 1#1: start worker process 37
2022/02/21 08:19:02 [notice] 1#1: start worker process 38
2022/02/21 08:19:02 [notice] 1#1: start worker process 39
172.17.0.1 - - [21/Feb/2022:08:19:16 +0000] "GET / HTTP/1.1" 200 615 "-" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/98.0.4758.80 Safari/537.36" "-"
2022/02/21 08:19:16 [error] 32#32: *1 open() "/usr/share/nginx/html/favicon.ico" failed (2: No such file or directory), client: 172.17.0.1, server: localhost, request: "GET /favicon.ico HTTP/1.1", host:
"localhost", referer: "http://localhost/"
172.17.0.1 - - [21/Feb/2022:08:19:16 +0000] "GET /favicon.ico HTTP/1.1" 404 555 "http://localhost/" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/98.0.4758.80 Safari/537.
36" "-"
172.17.0.1 - - [21/Feb/2022:08:19:32 +0000] "GET /my.html HTTP/1.1" 200 110 "-" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/98.0.4758.80 Safari/537.36" "-"
^C2022/02/21 08:21:07 [notice] 1#1: signal 2 (SIGINT) received, exiting
2022/02/21 08:21:07 [notice] 33#33: exiting
2022/02/21 08:21:07 [notice] 33#33: exit
2022/02/21 08:21:07 [notice] 35#35: exiting
2022/02/21 08:21:07 [notice] 34#34: exiting
2022/02/21 08:21:07 [notice] 38#38: exiting
2022/02/21 08:21:07 [notice] 37#37: exiting
2022/02/21 08:21:07 [notice] 39#39: exiting
2022/02/21 08:21:07 [notice] 35#35: exit
2022/02/21 08:21:07 [notice] 34#34: exit
2022/02/21 08:21:07 [notice] 37#37: exit
2022/02/21 08:21:07 [notice] 38#38: exit
2022/02/21 08:21:07 [notice] 39#39: exit
2022/02/21 08:21:07 [notice] 36#36: exiting
2022/02/21 08:21:07 [notice] 36#36: exit
2022/02/21 08:21:07 [notice] 32#32: exiting
2022/02/21 08:21:07 [notice] 32#32: exit
2022/02/21 08:21:07 [notice] 1#1: signal 17 (SIGCHLD) received from 38
2022/02/21 08:21:07 [notice] 1#1: worker process 38 exited with code 0
2022/02/21 08:21:07 [notice] 1#1: worker process 33 exited with code 0
2022/02/21 08:21:07 [notice] 1#1: signal 29 (SIGIO) received
2022/02/21 08:21:07 [notice] 1#1: signal 17 (SIGCHLD) received from 33
2022/02/21 08:21:07 [notice] 1#1: signal 17 (SIGCHLD) received from 32
2022/02/21 08:21:07 [notice] 1#1: worker process 32 exited with code 0
2022/02/21 08:21:07 [notice] 1#1: signal 29 (SIGIO) received
2022/02/21 08:21:07 [notice] 1#1: signal 17 (SIGCHLD) received from 39
2022/02/21 08:21:07 [notice] 1#1: worker process 39 exited with code 0
```

3c.jpg: Screenshot of python application successfully writing and reading from the MongoDB database

```
sumukhbhat2701@SRBs-PC$ sudo docker run mymongo
Inserted into the MongoDB database!
Fetched from MongoDB: {'_id': ObjectId('62134d241380e9cdea5bc34f'), 'Name': 'Sumukh Raju Bhat', 'SRN': 'PES1UG19CS519'}
```

3d.jpg: Screenshot showing mongodb being run within the network(docker command has to be clearly highlighted)

```
sumukhbhat2701@SRBs-PC$ sudo docker run --network=my-bridge-net mymongo
Inserted into the MongoDB database!
Fetched from MongoDB: {'_id': ObjectId('62135ccb9b18da21279e424f'), 'Name': 'Sumukh Raju Bhat', 'SRN': 'PES1UG19CS519'}
```

3e.jpg Screenshot showing python file being run within the network and successfully writing and reading from MongoDB(docker command has to be clearly highlighted)

```
sumukhbhat2701@SRBs-PC$ sudo docker run --network=my-bridge-net mymongo
```

```
pycode_1 | Inserted into the MongoDB database!
pycode_1 | Fetched from MongoDB: {'_id': ObjectId('62135f52280c9354b945d45e'), 'Name': 'Sumukh Raju Bhat', 'SRN': 'PES1UG19CS519'}
mongodb_1 | {"t":{"$date":"2022-02-21T09:45:55.157+00:00"},"s":"I", "c":"","id":20883, "ctx":{"conn1","msg":"Interrupted operation as its client disconnected","attr":{"opId":16}}
mongodb_1 | {"t":{"$date":"2022-02-21T09:45:55.158+00:00"},"s":"I", "c":"NETWORK", "id":22944, "ctx":{"conn1","msg":"Connection ended","attr":{"remote":"172.21.0.3:52226","uid":"dbseed14-805a-4c36-a
78c-f372cfff2cae","connectionId":1,"connectionCount":2}}
mongodb_1 | {"t":{"$date":"2022-02-21T09:45:55.172+00:00"},"s":"I", "c":"NETWORK", "id":22944, "ctx":{"conn2","msg":"Connection ended","attr":{"remote":"172.21.0.3:52228","uid":"048e9195-cc32-4119-b
2db-8c3ec668325d","connectionId":2,"connectionCount":1}}
mongodb_1 | {"t":{"$date":"2022-02-21T09:45:55.173+00:00"},"s":"I", "c":"NETWORK", "id":22944, "ctx":{"conn3","msg":"Connection ended","attr":{"remote":"172.21.0.3:52230","uid":"e6cf0df5-84c4-4103-b
f86-6ab2f88d792e","connectionId":3,"connectionCount":0}}
week3_pycode_1 exited with code 0
```

4a.jpg: Screenshot of python-mongodb application running as a docker-compose application(logs of the application)

Output:

```
pycode_1 | Inserted into the MongoDB database!
pycode_1 | Fetched from MongoDB: {'_id': ObjectId('62135f52280c9354b945d45e'), 'Name': 'Sumukh Raju Bhat', 'SRN': 'PES1UG19CS519'}
mongodb_1 | {"t":{"$date":"2022-02-21T09:45:55.157+00:00"},"s":"I", "c":"","id":20883, "ctx":{"conn1","msg":"Interrupted operation as its client disconnected","attr":{"opId":16}}
mongodb_1 | {"t":{"$date":"2022-02-21T09:45:55.158+00:00"},"s":"I", "c":"NETWORK", "id":22944, "ctx":{"conn1","msg":"Connection ended","attr":{"remote":"172.21.0.3:52226","uid":"dbseed14-805a-4c36-a
78c-f372cfff2cae","connectionId":1,"connectionCount":2}}
mongodb_1 | {"t":{"$date":"2022-02-21T09:45:55.172+00:00"},"s":"I", "c":"NETWORK", "id":22944, "ctx":{"conn2","msg":"Connection ended","attr":{"remote":"172.21.0.3:52228","uid":"048e9195-cc32-4119-b
2db-8c3ec668325d","connectionId":2,"connectionCount":1}}
mongodb_1 | {"t":{"$date":"2022-02-21T09:45:55.173+00:00"},"s":"I", "c":"NETWORK", "id":22944, "ctx":{"conn3","msg":"Connection ended","attr":{"remote":"172.21.0.3:52230","uid":"e6cf0df5-84c4-4103-b
f86-6ab2f88d792e","connectionId":3,"connectionCount":0}}
week3_pycode_1 exited with code 0
```

Logs:

```
Activities Terminal Feb 21 3:18 PM
sumukhbhat2701@SRBs-PC: /media/sumukhbhat2701/DATA/PESU notes/CC Lab/weeks3

sumukhbhat2701@SRBs-PC$ sudo docker-compose up
Creating network 'week3_default' with the default driver
Building pycode
Step 1/5: FROM python
----> dfce7257b7ba
Step 2/5: RUN apt-get update
----> Using cache
----> 7f68e9f53dc8
Step 3/5: RUN pip install pymongo
----> Using cache
----> 8d071f3604c5
Step 4/5: COPY sample.py sample.py
----> 5af42663784e
Step 5/5: CMD ["python", "sample.py"]
----> Running in 6b84384ac044
Removing intermediate container 6b84384ac044
----> 922b8b4d95de
Successfully built 922b8b4d95de
Successfully tagged week3_pycode:latest
WARNING: Image for service pycode was built because it did not already exist. To rebuild this image you must use 'docker-compose build' or 'docker-compose up --build'.
Creating week3_mongod_1 ... done
Creating week3_pycode_1 ... done
Attaching to week3_mongod_1, week3_pycode_1
week3_mongod_1 | {"t":{"$date":"2022-02-21T09:45:53.793+00:00"},"s":"I", "c":"NETWORK", "id":4915701, "ctx":"","msg":"Initialized wire specification",attr":{"spec":{"incomingExternalClient":{"minWireVersion":0,"maxWireVersion":13},"incomingInternalClient":{"minWireVersion":0,"maxWireVersion":13},"outgoing":{"minWireVersion":0,"maxWireVersion":13},"isInternalClient":true}}}}
week3_mongod_1 | {"t":{"$date":"2022-02-21T09:45:53.796+00:00"},"s":"I", "c":"CONTROL", "id":23285, "ctx":"main", "msg":"Automatically disabling TLS 1.0, to force-enable TLS 1.0 specify --sslDisabledProtocols 'none'"}
week3_mongod_1 | {"t":{"$date":"2022-02-21T09:45:53.796+00:00"},"s":"W", "c":"ASIO", "id":22601, "ctx":"main", "msg":"No TransportLayer configured during NetworkInterface startup"}
week3_mongod_1 | {"t":{"$date":"2022-02-21T09:45:53.799+00:00"},"s":"I", "c":"NETWORK", "id":4648601, "ctx":"main", "msg":"Implicit TCP FastOpen unavailable. If TCP FastOpen is required, set tcpFastOpenServer, tcpFastOpenClient, and tcpFastOpenQueueSize."}
week3_mongod_1 | {"t":{"$date":"2022-02-21T09:45:53.799+00:00"},"s":"W", "c":"ASIO", "id":22601, "ctx":"main", "msg":"No TransportLayer configured during NetworkInterface startup"}
week3_mongod_1 | {"t":{"$date":"2022-02-21T09:45:53.799+00:00"},"s":"I", "c":"REPL", "id":5123008, "ctx":"main", "msg":"Successfully registered PrimaryOnlyService",attr":{"service":"TenantMigrationDonorService","ns":"config.tenantmigrationdonors"}}
week3_mongod_1 | {"t":{"$date":"2022-02-21T09:45:53.799+00:00"},"s":"I", "c":"REPL", "id":5123008, "ctx":"main", "msg":"Successfully registered PrimaryOnlyService",attr":{"service":"TenantMigrationReplSetService","ns":"config.tenantmigrationrecipients"}}
week3_mongod_1 | {"t":{"$date":"2022-02-21T09:45:53.799+00:00"},"s":"I", "c":"CONTROL", "id":5945603, "ctx":"main", "msg":"Multi threading initialized"}
week3_mongod_1 | {"t":{"$date":"2022-02-21T09:45:53.799+00:00"},"s":"I", "c":"CONTROL", "id":4615611, "ctx":"initandlisten", "msg":"MongoDB starting",attr":{"pid":1,"port":27017,"dbPath":"/data/db","architecture":"64-bit","host":"8586be798920"}}
week3_mongod_1 | {"t":{"$date":"2022-02-21T09:45:53.799+00:00"},"s":"I", "c":"CONTROL", "id":23403, "ctx":"initandlisten", "msg":"Build Info",attr":{"buildInfo":{"version":"5.0.6","gitVersion":"212a8dbb47f0742da1949c75baec1d81d9259","openSSLVersion":"OpenSSL 1.1.1f 31 Mar 2020","modules":[],"allocator":"tcmalloc","environment":{"distmod":"ubuntu2004","distarch":"x86_64","target_arch":"x86_64"}}}}}
week3_mongod_1 | {"t":{"$date":"2022-02-21T09:45:53.799+00:00"},"s":"I", "c":"CONTROL", "id":51765, "ctx":"initandlisten", "msg":"Operating System",attr":{"os":{"name":"Ubuntu","version":"20.04"}}}}
week3_mongod_1 | {"t":{"$date":"2022-02-21T09:45:53.799+00:00"},"s":"I", "c":"CONTROL", "id":21951, "ctx":"initandlisten", "msg":"Options set by command line",attr":{"options":{"net":{"bindip":""}}}}}
week3_mongod_1 | {"t":{"$date":"2022-02-21T09:45:53.800+00:00"},"s":"I", "c":"STORAGE", "id":22297, "ctx":"initandlisten", "msg":"Using the XFS filesystem is strongly recommended with the WiredTiger storage engine. See http://dochub.mongodb.org/core/prodnotes-filesystem",tags:["startupWarnings"]}
week3_mongod_1 | {"t":{"$date":"2022-02-21T09:45:53.801+00:00"},"s":"I", "c":"STORAGE", "id":22315, "ctx":"initandlisten", "msg":"Opening WiredTiger",attr":{"config":{"create,cache_size=3400M,session_max=33000,eviction={threads_min=4,threads_max=4,config_base=false,statistics={fast},log=(enabled=true,archive=true,path=journal,compressor=snappy),builtin_extension_config={zstd:(compression_level=0),file_manager={close_idle_files=600,close_scan_interval=10,close_handle_minimum=250},statistics_log=(wait=0),verbose=[recovery_progress,checkpoint_progress,compact_progress]}}}}}
week3_mongod_1 | {"t":{"$date":"2022-02-21T09:45:54.288+00:00"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"initandlisten", "msg":"WiredTiger message",attr":{"message":["[1645436754:288846][1:0x7f54eafb9c80], txn-recover: [WT_VERB_RECOVERY_ALL] Set global recovery timestamp: (0, 0)"]}}
week3_mongod_1 | {"t":{"$date":"2022-02-21T09:45:54.288+00:00"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"initandlisten", "msg":"WiredTiger message",attr":{"message":["[1645436754:288881][1:0x7f54eafb9c80], txn-recover: [WT_VERB_RECOVERY_ALL] Set global oldest timestamp: (0, 0)"]}}
week3_mongod_1 | {"t":{"$date":"2022-02-21T09:45:54.298+00:00"},"s":"I", "c":"STORAGE", "id":4795906, "ctx":"initandlisten", "msg":"WiredTiger opened",attr":{"durationMillis":497}}
week3_mongod_1 | {"t":{"$date":"2022-02-21T09:45:54.298+00:00"},"s":"I", "c":"RECOVERY", "id":23987, "ctx":"initandlisten", "msg":"WiredTiger recoveryTimestamp",attr":{"recoveryTimestamp":{"$timestamp":{"t16":"0","t2":"0"}}}}}
week3_mongod_1 | {"t":{"$date":"2022-02-21T09:45:54.327+00:00"},"s":"I", "c":"STORAGE", "id":4366408, "ctx":"initandlisten", "msg":"No table logging settings modifications are required for existing WiredTiger tables",attr":{"loadInfoEnabled":true}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:45:54.368+00:00"},"s":"I", "c":"STORAGE", "id":5071100, "ctx":"initandlisten", "msg":"Clearing temp directory"}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:45:54.368+00:00"},"s":"I", "c":"CONTROL", "id":20536, "ctx":"initandlisten", "msg":"Flow Control is enabled on this deployment"}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:45:54.371+00:00"},"s":"I", "c":"FTDC", "id":20625, "ctx":"initandlisten", "msg":"Initializing full-time diagnostic data capture",attr":{"dataDirectory":"/data/db/diagnostic.data"}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:45:54.371+00:00"},"s":"I", "c":"STORAGE", "id":20320, "ctx":"initandlisten", "msg":"createCollection",attr":{"namespace":"local.startup_log","uuidDisposition":"generated","uuid":{"uid":"6e82eb9-27a3-075d-37d2-06af384d8e9b"},"options":{"capped":true,"size":10485760}}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:45:54.395+00:00"},"s":"I", "c":"INDEX", "id":20345, "ctx":"initandlisten", "msg":"Index build: done building",attr":{"buildUUID":null,"namespace":"local.startup_log","index":{"id":"conn1","timestamp":null}}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:45:54.396+00:00"},"s":"I", "c":"REPL", "id":6015317, "ctx":"initandlisten", "msg":"Setting new configuration state",attr":{"newState":"ConfigReplicationDisabled","oldState":"ConfigPreStart"}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:45:54.397+00:00"},"s":"I", "c":"CONTROL", "id":20712, "ctx":"LogicalSessionCacheReap", "msg":"Sessions collection is not set up; waiting until next sessions refresh interval",attr":{"error":"NamespacesNotFound: config system sessions does not exist"}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:45:54.397+00:00"},"s":"I", "c":"NETWORK", "id":23015, "ctx":"listener", "msg":"Listening on",attr":{"address":"/tmp/mongod-27017.sock"}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:45:54.398+00:00"},"s":"I", "c":"NETWORK", "id":23015, "ctx":"listener", "msg":"Listening on",attr":{"address":"0.0.0.0"}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:45:54.398+00:00"},"s":"I", "c":"NETWORK", "id":23016, "ctx":"listener", "msg":"Waiting for connections",attr":{"port":27017,"ssl":"off"}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:45:54.398+00:00"},"s":"I", "c":"STORAGE", "id":20320, "ctx":"LogicalSessionCacheRefresh", "msg":"createCollection",attr":{"namespace":"config.system.sessions","uuidDisposition":"generated","uuid":{"uid":"94c14109-fc67-428e-b229-ff024b3355a9"},"options":{"capped":true,"size":10485760}}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:45:54.444+00:00"},"s":"I", "c":"INDEX", "id":20345, "ctx":"LogicalSessionCacheRefresh", "msg":"Index build: done building",attr":{"buildUUID":null,"namespace":"config.system.sessions","index":{"id":"conn1","timestamp":null}}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:45:54.444+00:00"},"s":"I", "c":"INDEX", "id":20345, "ctx":"LogicalSessionCacheRefresh", "msg":"Index build: done building",attr":{"buildUUID":null,"namespace":"config.system.sessions","index":{"id":"conn1","timestamp":null}}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:45:54.451+00:00"},"s":"I", "c":"NETWORK", "id":22943, "ctx":"listener", "msg":"Connection accepted",attr":{"remote":"172.21.0.3:52226","uid":"db6eed14-805a-4c36-a78c-f372cf2f2cae","connectionId":1,"connectionCount":1}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:45:54.652+00:00"},"s":"I", "c":"NETWORK", "id":51800, "ctx":"conn1", "msg":"client metadata",attr":{"remote":"172.21.0.3:52226","client":"conn1","doc":{"driver":{"name":"PyMongo","version":"4.0.1"},"os":{"type":"Linux","name":"Linux","architecture":"x86_64"},"platform":"CPython 3.10.2.final.0"}}}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:45:54.656+00:00"},"s":"I", "c":"NETWORK", "id":22943, "ctx":"listener", "msg":"Connection accepted",attr":{"remote":"172.21.0.3:52228","uid":"048e9195-cc32-4119-b2db-8c3ec608325d","connectionId":2,"connectionCount":2}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:45:54.657+00:00"},"s":"I", "c":"NETWORK", "id":22943, "ctx":"listener", "msg":"Connection accepted",attr":{"remote":"172.21.0.3:52230","uid":"e6cf0df5-84c4-4103-bf86-6ab2f88d792e","connectionId":3,"connectionCount":3}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:45:54.657+00:00"},"s":"I", "c":"NETWORK", "id":51800, "ctx":"conn2", "msg":"client metadata",attr":{"remote":"172.21.0.3:52228","client":"conn2","doc":{"driver":{"name":"PyMongo","version":"4.0.1"},"os":{"type":"Linux","name":"Linux","architecture":"x86_64"},"platform":"CPython 3.10.2.final.0"}}}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:45:54.659+00:00"},"s":"I", "c":"NETWORK", "id":20320, "ctx":"conn2", "msg":"createCollection",attr":{"namespace":"sample_db.sample_collection","uuidDisposition":"generated","uuid":{"uid":"c352da39-79f5-4b0f-a2c8-8ac29736d1ee"},"options":{"capped":true,"size":10485760}}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:45:54.692+00:00"},"s":"I", "c":"INDEX", "id":20345, "ctx":"conn2", "msg":"Index build: done building",attr":{"buildUUID":null,"namespace":"sample_db.sample_collection","index":{"id":"conn1","timestamp":null}}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:45:54.692+00:00"},"s":"I", "c":"INDEX", "id":20345, "ctx":"conn2", "msg":"Index build: done building",attr":{"buildUUID":null,"namespace":"sample_db.sample_collection","index":{"id":"conn1","timestamp":null}}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:45:55.157+00:00"},"s":"I", "c":"CONTROL", "id":20883, "ctx":"conn1", "msg":"Interrupted operation as its client disconnected",attr":{"opId":16}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:45:55.158+00:00"},"s":"I", "c":"NETWORK", "id":22944, "ctx":"conn1", "msg":"Connection ended",attr":{"remote":"172.21.0.3:52226","uid":"db6eed14-805a-4c36-a78c-f372cf2f2cae","connectionId":1,"connectionCount":2}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:45:55.172+00:00"},"s":"I", "c":"NETWORK", "id":22944, "ctx":"conn2", "msg":"Connection ended",attr":{"remote":"172.21.0.3:52228","uid":"048e9195-cc32-4119-b2db-8c3ec608325d","connectionId":2,"connectionCount":1}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:45:55.173+00:00"},"s":"I", "c":"NETWORK", "id":22944, "ctx":"conn3", "msg":"Connection ended",attr":{"remote":"172.21.0.3:52230","uid":"e6cf0df5-84c4-4103-bf86-6ab2f88d792e","connectionId":3,"connectionCount":0}}
week3_pycode_1 | exited with code 0
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:46:54.342+00:00"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"CheckpointInter", "msg":"WiredTiger message",attr":{"message":["[1645436814:342726][1:0x7f54e2a7700], WT_SESSION.checkpoint: [WT_VERB_CHECKPOINT_PROGRESS] saving checkpoint snapshot min: 42, snapshot max: 42 snapshot count: 0, oldest timestamp: (0, 0), meta checkpoint timestamp: (0, 0) base write gen: 1"]}}
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week3_pycode_1 | {"t":{"$date":"2022-02-21T09:47:54.373+00:00"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"CheckpointInter", "msg":"WiredTiger message",attr":{"message":["[1645436874:373618][1:0x7f54e2a7700], WT_SESSION.checkpoint: [WT_VERB_CHECKPOINT_PROGRESS] saving checkpoint snapshot min: 45, snapshot max: 45 snapshot count: 0, oldest timestamp: (0, 0), meta checkpoint timestamp: (0, 0) base write gen: 1"]}}
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week3_pycode_1 | {"t":{"$date":"2022-02-21T09:47:54.373+00:00"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"CheckpointInter", "msg":"WiredTiger message",attr":{"message":["[1645436874:373618][1:0x7f54e2a7700], WT_SESSION.checkpoint: [WT_VERB_CHECKPOINT_PROGRESS] saving checkpoint snapshot min: 45, snapshot max: 45 snapshot count: 0, oldest timestamp: (0, 0), meta checkpoint timestamp: (0, 0) base write gen: 1"]}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:47:54.373+00:00"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"CheckpointInter", "msg":"WiredTiger message",attr":{"message":["[1645436874:373618][1:0x7f54e2a7700], WT_SESSION.checkpoint: [WT_VERB_CHECKPOINT_PROGRESS] saving checkpoint snapshot min: 45, snapshot max: 45 snapshot count: 0, oldest timestamp: (0, 0), meta checkpoint timestamp: (0, 0) base write gen: 1"]}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:47:54.373+00:00"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"CheckpointInter", "msg":"WiredTiger message",attr":{"message":["[1645436874:373618][1:0x7f54e2a7700], WT_SESSION.checkpoint: [WT_VERB_CHECKPOINT_PROGRESS] saving checkpoint snapshot min: 45, snapshot max: 45 snapshot count: 0, oldest timestamp: (0, 0), meta checkpoint timestamp: (0, 0) base write gen: 1"]}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:47:54.373+00:00"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"CheckpointInter", "msg":"WiredTiger message",attr":{"message":["[1645436874:373618][1:0x7f54e2a7700], WT_SESSION.checkpoint: [WT_VERB_CHECKPOINT_PROGRESS] saving checkpoint snapshot min: 45, snapshot max: 45 snapshot count: 0, oldest timestamp: (0, 0), meta checkpoint timestamp: (0, 0) base write gen: 1"]}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:47:54.373+00:00"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"CheckpointInter", "msg":"WiredTiger message",attr":{"message":["[1645436874:373618][1:0x7f54e2a7700], WT_SESSION.checkpoint: [WT_VERB_CHECKPOINT_PROGRESS] saving checkpoint snapshot min: 45, snapshot max: 45 snapshot count: 0, oldest timestamp: (0, 0), meta checkpoint timestamp: (0, 0) base write gen: 1"]}}
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week3_pycode_1 | {"t":{"$date":"2022-02-21T09:47:54.373+00:00"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"CheckpointInter", "msg":"WiredTiger message",attr":{"message":["[1645436874:373618][1:0x7f54e2a7700], WT_SESSION.checkpoint: [WT_VERB_CHECKPOINT_PROGRESS] saving checkpoint snapshot min: 45, snapshot max: 45 snapshot count: 0, oldest timestamp: (0, 0), meta checkpoint timestamp: (0, 0) base write gen: 1"]}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:47:54.373+00:00"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"CheckpointInter", "msg":"WiredTiger message",attr":{"message":["[1645436874:373618][1:0x7f54e2a7700], WT_SESSION.checkpoint: [WT_VERB_CHECKPOINT_PROGRESS] saving checkpoint snapshot min: 45, snapshot max: 45 snapshot count: 0, oldest timestamp: (0, 0), meta checkpoint timestamp: (0, 0) base write gen: 1"]}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:47:54.373+00:00"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"CheckpointInter", "msg":"WiredTiger message",attr":{"message":["[1645436874:373618][1:0x7f54e2a7700], WT_SESSION.checkpoint: [WT_VERB_CHECKPOINT_PROGRESS] saving checkpoint snapshot min: 45, snapshot max: 45 snapshot count: 0, oldest timestamp: (0, 0), meta checkpoint timestamp: (0, 0) base write gen: 1"]}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:47:54.373+00:00"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"CheckpointInter", "msg":"WiredTiger message",attr":{"message":["[1645436874:373618][1:0x7f54e2a7700], WT_SESSION.checkpoint: [WT_VERB_CHECKPOINT_PROGRESS] saving checkpoint snapshot min: 45, snapshot max: 45 snapshot count: 0, oldest timestamp: (0, 0), meta checkpoint timestamp: (0, 0) base write gen: 1"]}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:47:54.373+00:00"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"CheckpointInter", "msg":"WiredTiger message",attr":{"message":["[1645436874:373618][1:0x7f54e2a7700], WT_SESSION.checkpoint: [WT_VERB_CHECKPOINT_PROGRESS] saving checkpoint snapshot min: 45, snapshot max: 45 snapshot count: 0, oldest timestamp: (0, 0), meta checkpoint timestamp: (0, 0) base write gen: 1"]}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:47:54.373+00:00"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"CheckpointInter", "msg":"WiredTiger message",attr":{"message":["[1645436874:373618][1:0x7f54e2a7700], WT_SESSION.checkpoint: [WT_VERB_CHECKPOINT_PROGRESS] saving checkpoint snapshot min: 45, snapshot max: 45 snapshot count: 0, oldest timestamp: (0, 0), meta checkpoint timestamp: (0, 0) base write gen: 1"]}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:47:54.373+00:00"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"CheckpointInter", "msg":"WiredTiger message",attr":{"message":["[1645436874:373618][1:0x7f54e2a7700], WT_SESSION.checkpoint: [WT_VERB_CHECKPOINT_PROGRESS] saving checkpoint snapshot min: 45, snapshot max: 45 snapshot count: 0, oldest timestamp: (0, 0), meta checkpoint timestamp: (0, 0) base write gen: 1"]}}
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week3_pycode_1 | {"t":{"$date":"2022-02-21T09:47:54.373+00:00"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"CheckpointInter", "msg":"WiredTiger message",attr":{"message":["[1645436874:373618][1:0x7f54e2a7700], WT_SESSION.checkpoint: [WT_VERB_CHECKPOINT_PROGRESS] saving checkpoint snapshot min: 45, snapshot max: 45 snapshot count: 0, oldest timestamp: (0, 0), meta checkpoint timestamp: (0, 0) base write gen: 1"]}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:47:54.373+00:00"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"CheckpointInter", "msg":"WiredTiger message",attr":{"message":["[1645436874:373618][1:0x7f54e2a7700], WT_SESSION.checkpoint: [WT_VERB_CHECKPOINT_PROGRESS] saving checkpoint snapshot min: 45, snapshot max: 45 snapshot count: 0, oldest timestamp: (0, 0), meta checkpoint timestamp: (0, 0) base write gen: 1"]}}
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week3_pycode_1 | {"t":{"$date":"2022-02-21T09:47:54.373+00:00"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"CheckpointInter", "msg":"WiredTiger message",attr":{"message":["[1645436874:373618][1:0x7f54e2a7700], WT_SESSION.checkpoint: [WT_VERB_CHECKPOINT_PROGRESS] saving checkpoint snapshot min: 45, snapshot max: 45 snapshot count: 0, oldest timestamp: (0, 0), meta checkpoint timestamp: (0, 0) base write gen: 1"]}}
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week3_pycode_1 | {"t":{"$date":"2022-02-21T09:47:54.373+00:00"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"CheckpointInter", "msg":"WiredTiger message",attr":{"message":["[1645436874:373618][1:0x7f54e2a7700], WT_SESSION.checkpoint: [WT_VERB_CHECKPOINT_PROGRESS] saving checkpoint snapshot min: 45, snapshot max: 45 snapshot count: 0, oldest timestamp: (0, 0), meta checkpoint timestamp: (0, 0) base write gen: 1"]}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:47:54.373+00:00"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"CheckpointInter", "msg":"WiredTiger message",attr":{"message":["[1645436874:373618][1:0x7f54e2a7700], WT_SESSION.checkpoint: [WT_VERB_CHECKPOINT_PROGRESS] saving checkpoint snapshot min: 45, snapshot max: 45 snapshot count: 0, oldest timestamp: (0, 0), meta checkpoint timestamp: (0, 0) base write gen: 1"]}}
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week3_pycode_1 | {"t":{"$date":"2022-02-21T09:47:54.373+00:00"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"CheckpointInter", "msg":"WiredTiger message",attr":{"message":["[1645436874:373618][1:0x7f54e2a7700], WT_SESSION.checkpoint: [WT_VERB_CHECKPOINT_PROGRESS] saving checkpoint snapshot min: 45, snapshot max: 45 snapshot count: 0, oldest timestamp: (0, 0), meta checkpoint timestamp: (0, 0) base write gen: 1"]}}
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week3_pycode_1 | {"t":{"$date":"2022-02-21T09:47:54.373+00:00"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"CheckpointInter", "msg":"WiredTiger message",attr":{"message":["[1645436874:373618][1:0x7f54e2a7700], WT_SESSION.checkpoint: [WT_VERB_CHECKPOINT_PROGRESS] saving checkpoint snapshot min: 45, snapshot max: 45 snapshot count: 0, oldest timestamp: (0, 0), meta checkpoint timestamp: (0, 0) base write gen: 1"]}}
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week3_pycode_1 | {"t":{"$date":"2022-02-21T09:47:54.373+00:00"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"CheckpointInter", "msg":"WiredTiger message",attr":{"message":["[1645436874:373618][1:0x7f54e2a7700], WT_SESSION.checkpoint: [WT_VERB_CHECKPOINT_PROGRESS] saving checkpoint snapshot min: 45, snapshot max: 45 snapshot count: 0, oldest timestamp: (0, 0), meta checkpoint timestamp: (0, 0) base write gen: 1"]}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:47:54.373+00:00"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"CheckpointInter", "msg":"WiredTiger message",attr":{"message":["[1645436874:373618][1:0x7f54e2a7700], WT_SESSION.checkpoint: [WT_VERB_CHECKPOINT_PROGRESS] saving checkpoint snapshot min: 45, snapshot max: 45 snapshot count: 0, oldest timestamp: (0, 0), meta checkpoint timestamp: (0, 0) base write gen: 1"]}}
week3_pycode_1 | {"t":{"$date":"2022-02-21T09:47:54.373+00:00"},"s":"I", "c":"STORAGE", "id":22430, "
```

```
pycode_1 | Inserted into the MongoDB database!
pycode_1 | Fetched from MongoDB: {'_id': ObjectId('62135f52280c9354b945d45e'), 'Name': 'Sumukh Raju Bhat', 'SRN': 'PES1UG19CS519'}
mongodb_1 | {"t":{"$date":"2022-02-21T09:48:50.657+00:00"},"s":"M", "c":"ASIO", "id":22601, "ctx":"thread1","msg":"No TransportLayer configured during
mongodb_1 | {"t":{"$date":"2022-02-21T09:48:50.658+00:00"},"s":"I", "c":"NETWORK", "id":4648601, "ctx":"thread1","msg":"Implicit TCP FastOpen unavailable
server_tcpFastOpenClient and_tcpFastOpenQueueSize"}
```

```
pycode_2 | Inserted into the MongoDB database!
pycode_2 | Fetched from MongoDB: {'_id': ObjectId('62135f52280c9354b945d45e'), 'Name': 'Sumukh Raju Bhat', 'SRN': 'PES1UG19CS519'}
mongodb_1 | {"t":{"$date":"2022-02-21T09:48:51.912+00:00"},"s":"I", "c":"NETWORK", "id":22943, "ctx":"listener","msg":"Connection accepted","attr":{"remote":"172.21.0.5:54760","uuid":"94272ebf-b2ad-4dff-9d30-8da6fffb8c2c","connectionId":7,"connectionCount":7}}
mongodb_1 | {"t":{"$date":"2022-02-21T09:48:51.913+00:00"},"s":"I", "c":"NETWORK", "id":51800, "ctx":"conn7","msg":"client metadata","attr":{"remote":"172.21.0.5:54760","client":"conn7","doc":{"driver":{"name":"PyMongo","version":"4.0.1"},"os":{"type":"Linux","name":"Linux","architecture":"x86_64","version":"5.13.0-28-generic"},"platform":"CPython 3.10.2.final.0"}}}}
mongodb_1 | {"t":{"$date":"2022-02-21T09:48:51.914+00:00"},"s":"I", "c":"NETWORK", "id":22943, "ctx":"listener","msg":"Connection accepted","attr":{"remote":"172.21.0.5:54762","uuid":"d4259da8-0f49-4d68-9800-5c81ab2693c8","connectionId":8,"connectionCount":8}}
mongodb_1 | {"t":{"$date":"2022-02-21T09:48:51.914+00:00"},"s":"I", "c":"NETWORK", "id":22943, "ctx":"listener","msg":"Connection accepted","attr":{"remote":"172.21.0.5:54764","uuid":"43f04db3-904e-4b5b-a722-833fc103f9b2","connectionId":9,"connectionCount":9}}
mongodb_1 | {"t":{"$date":"2022-02-21T09:48:51.915+00:00"},"s":"I", "c":"NETWORK", "id":51800, "ctx":"conn8","msg":"client metadata","attr":{"remote":"172.21.0.5:54762","client":"conn8","doc":{"driver":{"name":"PyMongo","version":"4.0.1"},"os":{"type":"Linux","name":"Linux","architecture":"x86_64","version":"5.13.0-28-generic"},"platform":"CPython 3.10.2.final.0"}}}}
mongodb_1 | {"t":{"$date":"2022-02-21T09:48:51.915+00:00"},"s":"I", "c":"NETWORK", "id":51800, "ctx":"conn9","msg":"client metadata","attr":{"remote":"172.21.0.5:54764","client":"conn9","doc":{"driver":{"name":"PyMongo","version":"4.0.1"},"os":{"type":"Linux","name":"Linux","architecture":"x86_64","version":"5.13.0-28-generic"},"platform":"CPython 3.10.2.final.0"}}}}
mongodb_1 | {"t":{"$date":"2022-02-21T09:48:52.025+00:00"},"s":"I", "c":"-", "id":20883, "ctx":"conn1","msg":"Interrupted operation as its client disconnected","attr":{"opId":13}}
mongodb_1 | {"t":{"$date":"2022-02-21T09:48:52.027+00:00"},"s":"I", "c":"NETWORK", "id":22944, "ctx":"conn1","msg":"Connection ended","attr":{"remote":"172.21.0.3:52234","uuid":"9cca7934-b265-4b26-bded-ba73a417a979","connectionId":1,"connectionCount":8}}
mongodb_1 | {"t":{"$date":"2022-02-21T09:48:52.035+00:00"},"s":"I", "c":"NETWORK", "id":22944, "ctx":"conn2","msg":"Connection ended","attr":{"remote":"172.21.0.3:52236","uuid":"0ade64d4-9dca-40bd-a6ab-1840492671ee","connectionId":2,"connectionCount":7}}
mongodb_1 | {"t":{"$date":"2022-02-21T09:48:52.035+00:00"},"s":"I", "c":"NETWORK", "id":22944, "ctx":"conn3","msg":"Connection ended","attr":{"remote":"172.21.0.3:52238","uuid":"a3cf099e-2dbc-4685-a49a-619f731183b2","connectionId":3,"connectionCount":6}}
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