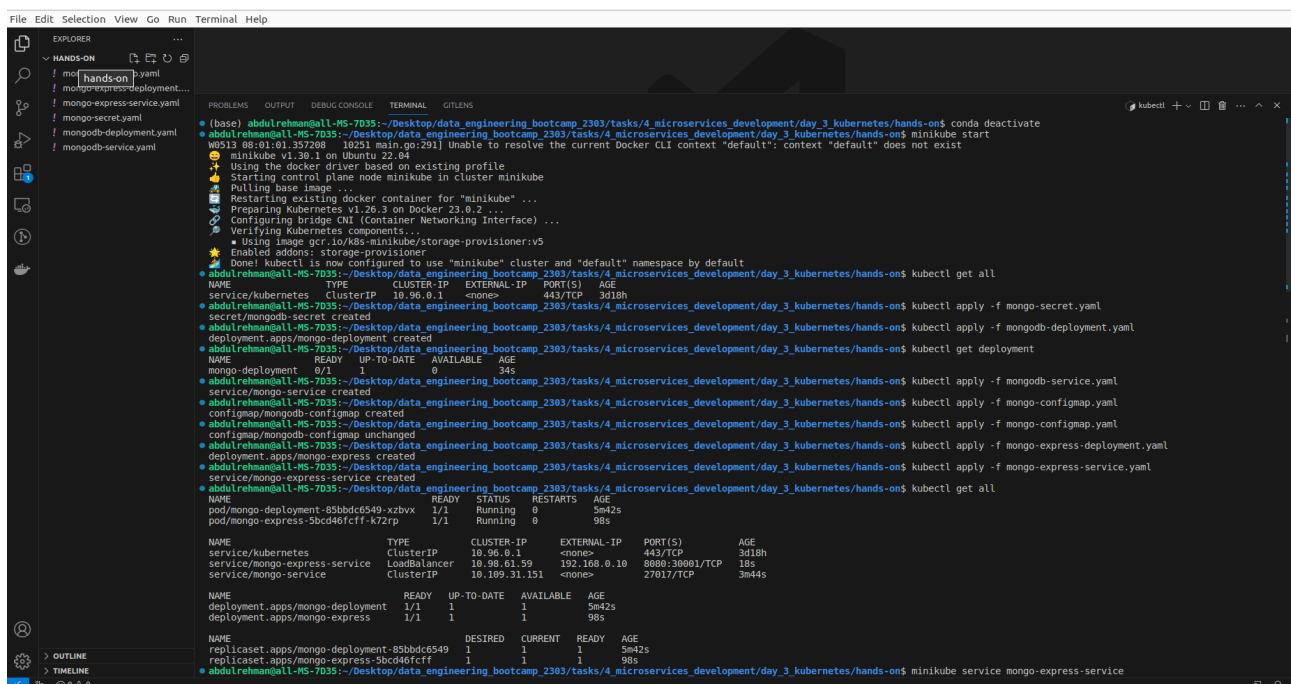# Group Member's Name:-

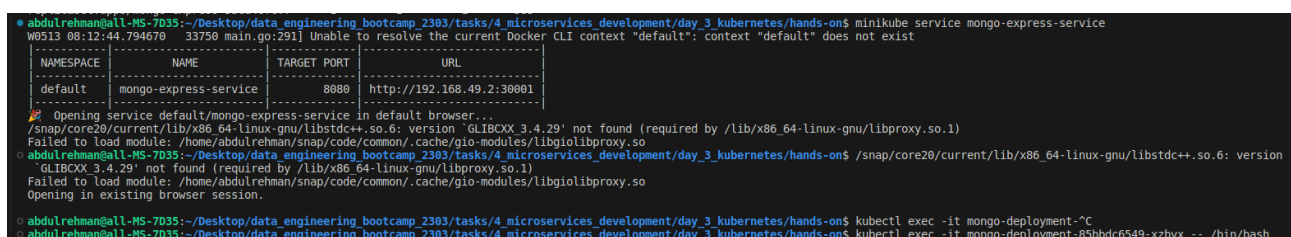# Muhammad Arsalan (2303.KHI.DEG.025)
Abdul Rehman (2303.KHI.DEG.035)
Arshad Shiwani (2303.KHI.DEG.026)

Firrst we start minikube then we did **kubectl get all** to display a summary of all resources after that kubectl **apply -f <File Name>** this command help to create and update resources.
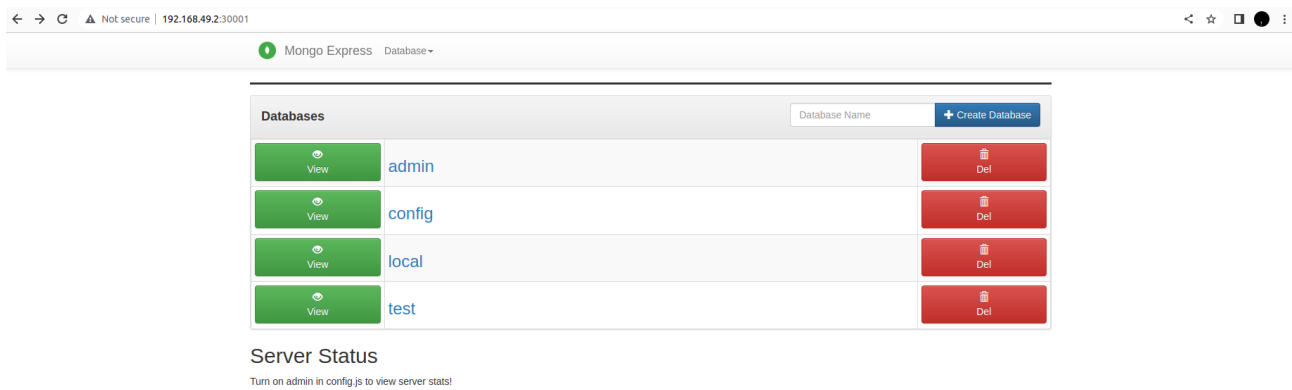

minikube service <File Name> It expose a kubernetes service locally. And **kubectl exec -it** It allow us to execute command inside a container as well as **mongo-deployment-85bbdc6549-xzbvx** this is the pod that I want to execute the command and **/bin/bash** It help us to run inside the container.

This is the **WEBUI** of Mongodb and I created database with the name **test**

Here I Created a file with the name of **test_file.**
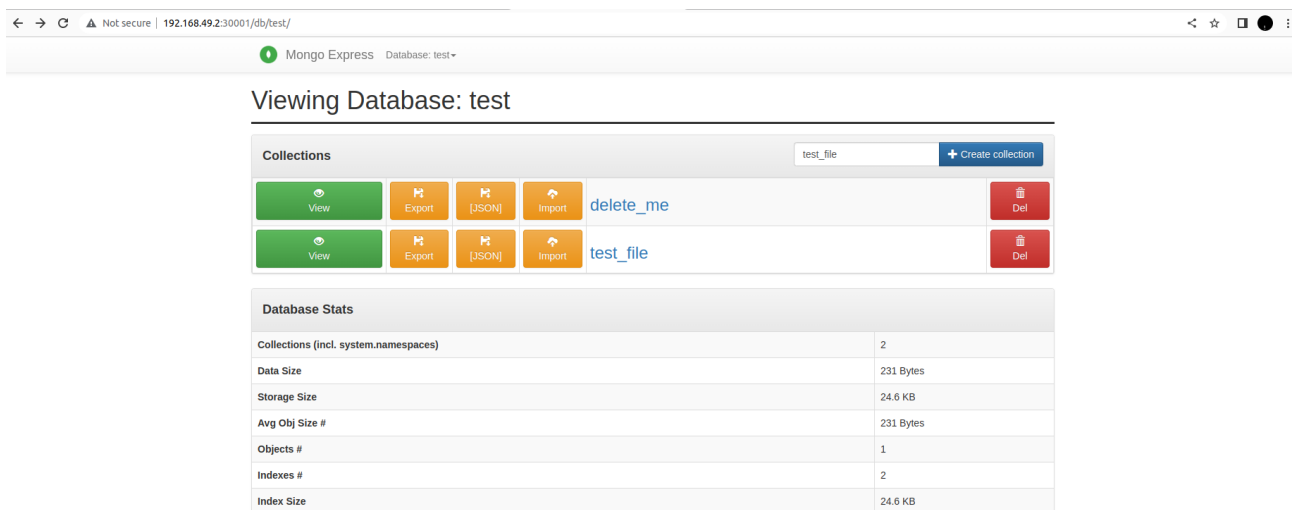
It shows the json file content

mongosh -u $MONGO_INITDB_ROOT_USERNAME -p $MONGO_INITDB_ROOT_PASSWORD This command specifies the username and password to use when authenticating to a mongodb database

kubectl logs this command allows to view the logs and **mongo-deployment-85bbdc6549-xzbvx** this is the name of log which we want to view logs.

```
]
test> exit
root@mongo-deployment-85bbdc6549-xzbvx:/# exit
exit
abdulrehman@all-MS-7D35:~/Desktop/data_engineering_bootcamp_2303/tasks/4_mic
abdulrehman@all-MS-7D35:~/Desktop/data_engineering_bootcamp_2303/tasks/4_microservices_development/day_3_kubernetes/hands-on$ kubectl logs mongo-deployment-85bbdc6549-xzbvx
about to fork child process, waiting until server is ready for connections.
forked process: 28

{"t":{"$date":"2023-05-13T03:05:26.306+00:00"},"s":"I",  "c":"CONTROL",  "id":20698,   "ctx":"-","msg":"***** SERVER RESTARTED *****"}
{"t":{"$date":"2023-05-13T03:05:26.307+00:00"},"s":"I",  "c":"NETWORK",  "id":4915701, "ctx":"-","msg":"Initialized wire specification","attr":{"spec":{"incomingExternalClient":{"minWireVersi
on":0,"maxWireVersion":17},"incomingInternalClient":{"minWireVersion":0,"maxWireVersion":17},"outgoing":{"minWireVersion":6,"maxWireVersion":17},"isInternalClient":true}}}
{"t":{"$date":"2023-05-13T03:05:26.308+00:00"},"s":"I",  "c":"CONTROL",  "id":23285,   "ctx":"main","msg":"Automatically disabling TLS 1.0, to force-enable TLS 1.0 specify --sslDisabledProtoc
ols 'none'"}
{"t":{"$date":"2023-05-13T03:05:26.308+00:00"},"s":"I",  "c":"NETWORK",  "id":4648601, "ctx":"main","msg":"Implicit TCP FastOpen unavailable. If TCP FastOpen is required, set tcpFastOpenServe
r, tcpFastOpenClient, and tcpFastOpenQueueSize."}
{"t":{"$date":"2023-05-13T03:05:26.309+00:00"},"s":"I",  "c":"REPL",     "id":5123008, "ctx":"main","msg":"Successfully registered PrimaryOnlyService","attr":{"service":"TenantMigrationDonorS
ervice","namespace":"config.tenantMigrationDonors"}}
{"t":{"$date":"2023-05-13T03:05:26.309+00:00"},"s":"I",  "c":"REPL",     "id":5123008, "ctx":"main","msg":"Successfully registered PrimaryOnlyService","attr":{"service":"TenantMigrationRecipi
entService","namespace":"config.tenantMigrationRecipients"}}
{"t":{"$date":"2023-05-13T03:05:26.309+00:00"},"s":"I",  "c":"REPL",     "id":5123008, "ctx":"main","msg":"Successfully registered PrimaryOnlyService","attr":{"service":"ShardSplitDonorServic
e","namespace":"config.tenantSplitDonors"}}
{"t":{"$date":"2023-05-13T03:05:26.309+00:00"},"s":"I",  "c":"CONTROL",  "id":5945603, "ctx":"main","msg":"Multi threading initialized"}
{"t":{"$date":"2023-05-13T03:05:26.309+00:00"},"s":"I",  "c":"CONTROL",  "id":4615611, "ctx":"initandlisten","msg":"MongoDB starting","attr":{"pid":28,"port":27017,"dbPath":"/data/db","archit
ecture":"64-bit","host":"mongo-deployment-85bbdc6549-xzbvx"}}
{"t":{"$date":"2023-05-13T03:05:26.309+00:00"},"s":"I",  "c":"CONTROL",  "id":23403,   "ctx":"initandlisten","msg":"Build Info","attr":{"buildInfo":{"version":"6.0.5","gitVersion":"c9a99c1203
71d4d4c52cbb15dac34a36ce8d3b1d","openSSLVersion":"OpenSSL 3.0.2 15 Mar 2022","modules":[],"allocator":"tcmalloc","environment":{"distmod":"ubuntu2204","distarch":"x86_64","target_arch":"x86_6
4"}}}}
{"t":{"$date":"2023-05-13T03:05:26.309+00:00"},"s":"I",  "c":"CONTROL",  "id":51765,   "ctx":"initandlisten","msg":"Operating System","attr":{"os":{"name":"Ubuntu","version":"22.04"}}}
{"t":{"$date":"2023-05-13T03:05:26.309+00:00"},"s":"I",  "c":"CONTROL",  "id":21951,   "ctx":"initandlisten","msg":"Options set by command line","attr":{"options":{"net":{"bindIp":"127.0.0.1"
,"port":27017,"tls":{"mode":"disabled"}},"processManagement":{"fork":true,"pidFilePath":"/tmp/docker-entrypoint-temp-mongod.pid"},"systemLog":{"destination":"file","logAppend":true,"path":"/p
roc/1/fd/1"}}}}
{"t":{"$date":"2023-05-13T03:05:26.310+00:00"},"s":"I",  "c":"STORAGE",  "id":22297,   "ctx":"initandlisten","msg":"Using the XFS filesystem is strongly recommended with the WiredTiger storag
e engine. See http://dochub.mongodb.org/core/prodnotes-filesystem","tags":["startupWarnings"]}
{"t":{"$date":"2023-05-13T03:05:26.310+00:00"},"s":"I",  "c":"STORAGE",  "id":22315,   "ctx":"initandlisten","msg":"Opening WiredTiger","attr":{"config":"create,cache_size=15442M,session_max=
33000,eviction=(threads_min=4,threads_max=4),config_base=false,statistics=(fast),log=(enabled=true,remove=true,path=journal,compressor=snappy),builtin_extension_config=(zstd=(compression_leve
l=6)),file_manager=(close_idle_time=600,close_scan_interval=10,close_handle_minimum=2000),statistics_log=(wait=0),json_output=(error,message),verbose=[recovery_progress:1,checkpoint_progress:
1,compact_progress:1,backup:0,checkpoint:0,compact:0,evict:0,history_store:0,recovery:0,rts:0,salvage:0,tiered:0,timestamp:0,transaction:0,verify:0,log:0],"}}
{"t":{"$date":"2023-05-13T03:05:26.420+00:00"},"s":"I",  "c":"STORAGE",  "id":4795906, "ctx":"initandlisten","msg":"WiredTiger opened","attr":{"durationMillis":110}}
{"t":{"$date":"2023-05-13T03:05:26.420+00:00"},"s":"I",  "c":"RECOVERY", "id":23987,   "ctx":"initandlisten","msg":"WiredTiger recoveryTimestamp","attr":{"recoveryTimestamp":{"$timestamp":{"t
":0,"i":0}}}}
{"t":{"$date":"2023-05-13T03:05:26.427+00:00"},"s":"I",  "c":"STORAGE",  "id":22120,   "ctx":"initandlisten","msg":"Access control is not enabled for the database. Read and write access to da
ta and configuration is unrestricted","tags":["startupWarnings"]}
{"t":{"$date":"2023-05-13T03:05:26.428+00:00"},"s":"W",  "c":"CONTROL",  "id":5123300, "ctx":"initandlisten","msg":"vm.max_map_count is too low","attr":{"currentValue":65530,"recommendedMinim
um":1677720,"maxConns":838860},"tags":["startupWarnings"]}
{"t":{"$date":"2023-05-13T03:05:26.428+00:00"},"s":"I",  "c":"STORAGE",  "id":20320,   "ctx":"initandlisten","msg":"createCollection","attr":{"namespace":"admin.system.version","uuidDispositi
on":"provided","uuid":{"uuid":{"$uuid":"20fd7218-c5da-42bb-b9e0-7eca23230c64"}},"options":{"uuid":{"$uuid":"20fd7218-c5da-42bb-b9e0-7eca23230c64"}}}}
{"t":{"$date":"2023-05-13T03:05:26.432+00:00"},"s":"I",  "c":"INDEX",    "id":20345,   "ctx":"initandlisten","msg":"Index build: done building","attr":{"buildUUID":null,"collectionUUID":{"uui
d":{"$uuid":"20fd7218-c5da-42bb-b9e0-7eca23230c64"}},"namespace":"admin.system.version","index":"_id_","ident":"index-1-3576705501003053662","collectionIdent":"collection-0-357670550100305366
2","commitTimestamp":null}}
```