# 4.3\_Assignment\_Kubernetes

### **Peer Members:**

- · Syed Raqim Ali Shah
- · Maaz Javaid Siddique

## **Question:**

Display logs of a running MongoDB container. Add a document to the DB via Mongo Express frontend. Get into the pod and verify the document's existence via mongosh.

### **Solution:**

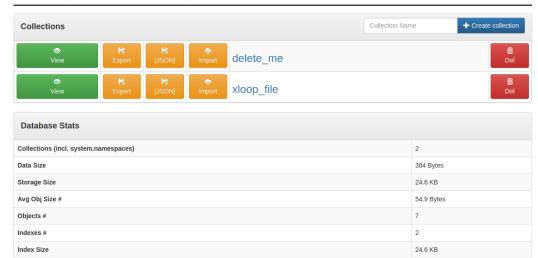
```
Syediniahamadragian Light L-BC-7035--/Documents/data_engineering_bootcamp_2939/tasks/4_microservices_development/day_3_kubernates/hands-ens sudo usernod_a6 docker SUSER 66 newgrp docker strained by the start of th
```



Viewing Databases Vlaca d

Mongo Express Database: Xloop\_db →

#### Viewing Database: Xloop\_db



```
\times
Add Document
                     color: "red",
                     value: "#f00"
  6
                     color: "green",
                     value: "#0f0"
  8
  9
 10
 11
                     color: "blue",
                     value: "#00f"
 12
 13
 14
                     color: "cyan"
                                                    Close
                                                             🖍 Save
```

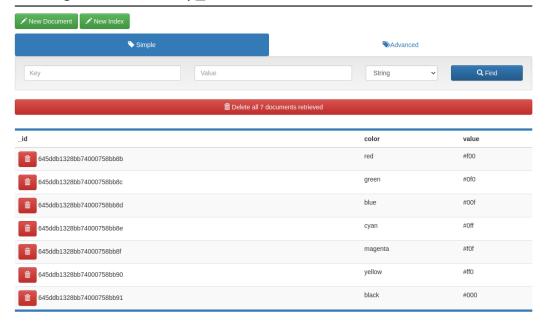
### Wrote this in xloop\_file

```
[
          color: "red",
          value: "#f00"
     },
          color: "green",
          value: "#0f0"
     },
     {
          color: "blue",
          value: "#00f"
     },
          color: "cyan",
          value: "#0ff"
     },
          color: "magenta",
          value: "#f0f"
     },
```

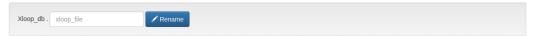


Mongo Express Database: Xloop\_db → > Collection: xloop\_file →

### Viewing Collection: xloop\_file



#### **Rename Collection**



Toolo

```
The monitoring data will be available on a MongoDB website with a unique URL accessible to you
   and anyone you share the URL with. MongoDB may use this information to make product
   improvements and to suggest MongoDB products and deployment options to you.
   To enable free monitoring, run the following command: db.enableFreeMonitoring()
   To permanently disable this reminder, run the following command: db.disableFreeMonitoring()
test> use Xloop_db
switched to db Xloop_db
Xloop db> show collections
delete_me
xloop file
Xloop_db> db.xloop_file.find({})
     id: ObjectId("645ddb1328bb74000758bb8b"),
    color: 'red', value: '#f00'
     id: ObjectId("645ddb1328bb74000758bb8c"),
    color: 'green',
value: '#0f0'
     id: ObjectId("645ddb1328bb74000758bb8d"),
    color: 'blue',
value: '#00f'
     id: ObjectId("645ddb1328bb74000758bb8e"),
    color: 'cyan',
value: '#0ff'
     _id: ObjectId("645ddb1328bb74000758bb8f"),
    color: 'magenta', value: '#f0f'
     id: ObjectId("645ddb1328bb74000758bb90"),
    color: 'yellow', value: '#ff0'
     id: ObjectId("645ddb1328bb74000758bb91"),
    color: 'black',
value: '#000'
Xloop_db>
```

The **kubectl logs** command is used to print the logs of a container in a pod.

```
syedmuhammadraqimali@all-MS-7035:~/Documents/data_engineering_bootcamp_2303/tasks/4_microservices_development/day_3_kubernetes/hands-on$ kubectl logs mongo-deployment-85bbdc6549-tzht7
about to fork child process, waiting until server is ready for connections.

{"t":("sdate":"2023-05-12106:13:43.453+00:00"), "s":"I", "c":"CONTROL", "id":20698, "ctx":"-", "msg":"***** SERVER RESTARTED ******"]

{"t":("sdate":"2023-05-12106:13:43.455+00:00"), "s":"I", "c":"CONTROL", "id":23285, "ctx":"-", "msg":"Automatically disabling TLS 1.0, to force-enable TLS 1.0 specify --sslDisabledProto
cols 'none" }

{"t":("sdate":"2023-05-12106:13:43.457+00:00"), "s":"I", "c":"NETWORK", "id":4915701, "ctx":"main", "msg":"Initialized wire specification", "attr":("spec":("incomingExternalClient":("minWireVersion":0, "maxWireVersion":17), "incomingInternalClient":("minWireVersion":17), "incomingInternalClient":("minWireVersion":17), "initialized wire specification", "attr":("spec":("incomingExternalClient":("minWireVersion":17), "initialized wire specification", "attr":("spe
```

a-985c-b2ce9T686812","connectionid":15,"connectionCount":/}}		
{"t":{"\$date":"2023-05-12T10:36:34.423+00:00"},"s":"I", "c":"-",	"id":20883,	ctx":"conn9","msg":"Interrupted operation as its client disconnected","attr":{"opId":198148}}
{"t":{"\$date":"2023-05-12T10:36:34.424+00:00"},"s":"I", "c":"NETWORK",	"id":22944,	"ctx":"conn9","msg":"Connection ended","attr":{"remote":"127.0.0.1:39942","uuid": <sup>"</sup> eedc0f9a-f7c2-4a8d
-96b1-637a20ec6a45","connectionId":9,"connectionCount":6}}		
{"t":{"\$date":"2023-05-12T10:36:34.424+00:00"},"s":"I", "c":"NETWORK",	"id":22944,	"ctx":"conn14","msg":"Connection ended","attr":{"remote":"127.0.0.1:34408","uuid":"f04bb9le-bcf1-45d
4-88f6-bf7a6e5161e8","connectionId":14,"connectionCount":5}}		
{"t":{"\$date":"2023-05-12T10:36:34.424+00:00"},"s":"I", "c":"NETWORK",	"id":22944,	ctx":"conn13","msg":"Connection ended","attr":{"remote":"127.0.0.1:34396","uuid":"2d033fd8-aa42-466"
e-8c5b-ced37535bde2","connectionId":13,"connectionCount":4}}		
{"t":{"\$date":"2023-05-12T10:36:34.424+00:00"},"s":"I", "c":"NETWORK",	"id":22944,	ctx":"conn10","msg":"Connection ended","attr":{"remote":"127.0.0.1:39946","uuid":"484a2c07-3912-410"
d-b184-801bacee8892","connectionId":10,"connectionCount":3}}		
{"t":{"\$date":"2023-05-12T10:36:34.424+00:00"},"s":"I", "c":"NETWORK",	"id":22944,	ctx":"conn11","msg":"Connection ended","attr":{"remote":"127.0.0.1:39952","uuid":"2dea7b3f-32da-4e8"
c-aa99-f62decf999bb","connectionId":11,"connectionCount":2}}		
{"t":{"\$date":"2023-05-12T10:36:34.425+00:00"},"s":"I", "c":"NETWORK",	"id":22944,	ctx":"conn12","msg":"Connection ended","attr":{"remote":"127.0.0.1:39954","uuid":"a40ae981-2ac5-4c4"
c-9337-d31046df0717" "connectionId":12 "connectionCount":1}}		