HENAFF Théo NASRI Chiheb

ReplicaSet:

Nous avons suivi ce tuto pour l'installation du ReplicaSet sur notre service de Chat

https://openclassrooms.com/fr/courses/4462426-maitrisez-les-bases-de-donnees-nosql/4474611-protegez-vous-des-pannes-avec-les-replicaset

Création de 3 serveurs (1 primary et 2 secondary) et un arbiter tous les trois connectés :

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```
"_id" : 2,
"name" : "localhost:27019",
"health" : 1,
"state" : 2,
"stateStr" : "SECONDARY",
"uptime" : 4527,
"optime" : {
    "ts" : Timestamp(1586944114, 1),
    "t" : NumberLong(9)
},
"optimeDurable" : {
    "ts" : Timestamp(1586944114, 1),
    "t" : NumberLong(9)
},
"optimeDate" : ISODate("2020-04-15T09:48:34Z"),
"optimeDurableDate" : ISODate("2020-04-15T09:48:34Z"),
 "lastHeartbeat" : ISODate("2020-04-15T09:48:37.923Z"),
"lastHeartbeatRecv" : ISODate("2020-04-15T09:48:36.682Z"),
"pingMs" : NumberLong(0),
"lastHeartbeatMessage" : ""
"syncingTo" : "localhost:27018",
"syncSourceHost" : "localhost:27018",
"syncSourceId" : 0,
"infoMessage" : "",
"configVersion" : 4
"_id" : 3,
"name" : "localhost:30000",
"health" : 1,
"state" : 7,
"stateStr" : "ARBITER",
"uptime" : 4575,
"lastHeartbeat" : ISODate("2020-04-15T09:48:37.328Z"),
"lastHeartbeatRecv" : ISODate("2020-04-15T09:48:37.593Z"),
 "pingMs" : NumberLong(0),
"lastHeartbeatMessage" : "",
"syncingTo": "",
"syncSourceHost": "",
"syncSourceId": -1,
"infoMessage": "",
"configVersion": 4
```

HENAFF Théo **NASRI Chiheb**

Quand on kill le primary (içi 27018) l'aribiter désigne un des replicat en primary ici c'est le 27020

```
C. \Users\chineb\Desktop\INFO834\TP5-6>mongo --port 27020

MongoDB shell version v4. 0.13

connecting to: mongodb://127.0.0.1:27020/?gssapiServiceName=mongodb
Implicit session: session { "id" : UUID("89a3028f-3a83-4e0d-9416-1010ae55cdd9") }

MongoDB server version: 4.0.13

Server has startup warnings:
2820-04-15701:56:31.626-0700 I CONTROL
2820-04-15701:56:31.626-0700 I CONTROL
2820-04-15701:56:31.629-0700 I CONTROL
2820-04-15701:56:31.631-0700 I CONTROL
2820-04-15701:56:31.043-0700 I CONTROL
2820-04-15701:56:31.043-070
                                                                                                                                                                                                                                   [initandlisten]
[initandlisten] ** WARNING: Access control is not enabled for the database.
[initandlisten] ** WARNING: Access to data and configuration is unrestricted.
[initandlisten] ** WARNING: This server is bound to localhost.
[initandlisten] ** Remote systems will be unable to connect to this server.
[initandlisten] ** Start the server with --bind_ip <address> to specify which IP address> to specify which IP initandlisten] ** bind to all interfaces. If this behavior is desired, start the server with --bind_ip 127.0.0.1 to disable this warning.
                                                                                                                                                                                                                                                                                                                                                                                                   Inis server is bound to localnost. Remote systems will be unable to connect to this server. Start the server with --bind_ip <address> to specify which IP addresses it should serve responses from, or with --bind_ip_all to bind to all interfaces. If this behavior is desired, start the server with --bind_ip 127.0.0.1 to disable this warning.
                                                                                                                                                                                                                                                                                                             ** WARNING: This replica set uses arbiters, but readConcern:majority is enabled

** for this node. This is not a recommended configuration. Please see

** https://dochub.mongodb.org/core/psa-disable-rc-majority-4.0
    nable MongoDB's free cloud-based monitoring service, which will then receive and display etrics about your deployment (disk utilization, CPU, operation statistics, etc).
                         o enable free monitoring, run the following command: db.enableFreeMonitoring()
o permanently disable this reminder, run the following command: db.disableFreeMonitoring()
       0:PRIMARY
```

De plus les données on été répliquée sur les deux autres serveurs (27019 et 27020)

