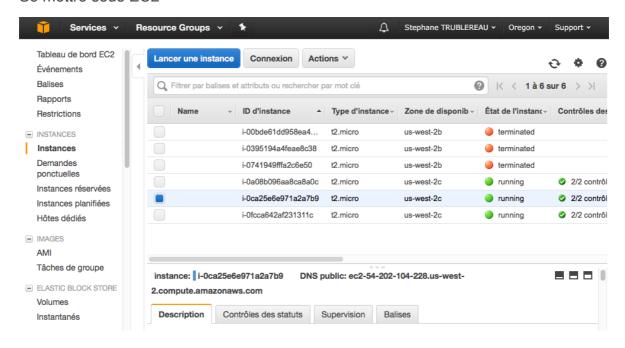
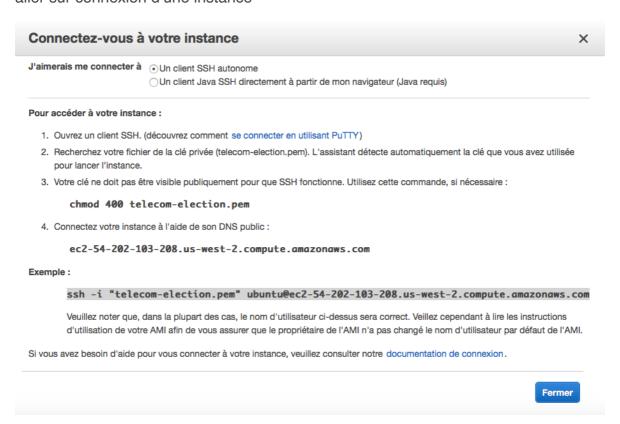
AWS-NOSQL

Se mettre sous EC2



aller sur connexion d'une instance



Option: A faire une fois

si vous avez mis la clé sous .ssh commande de type (nom du fichier elecomelection.pem)

Sous terminal poste local:

exemple:

dhcpwifi-22-89:~ stephanetrublereau\$ ssh -i ~/.ssh/telecom-election.pem ec2-user@ec2-54-202-104-228.us-west-2.compute.amazonaws.com

The authenticity of host 'ec2-54-202-104-228.us-west-2.compute.amazonaws.com (54.202.104.228)' can't be established.

ECDSA key fingerprint is

SHA256:Vaz1yT23tx5hqLOn7nfexsVtSmkR6tx7XyhCCuKK9Eo.

Are you sure you want to continue connecting (yes/no)? yes

Warning: Permanently added 'ec2-54-202-104-228.us-

west-2.compute.amazonaws.com,54.202.104.228' (ECDSA) to the list of known hosts.

	l	_[_)		
_l	(/	Amazon	Linux	AMI
	1\	- 1	1		

https://aws.amazon.com/amazon-linux-ami/2016.09-release-notes/5 package(s) needed for security, out of 9 available Run "sudo yum update" to apply all updates. [ec2-user@ip-172-31-14-140 ~]\$

ssh -i ~/.ssh/telecom-election.pem ec2-user@ec2-54-244-43-231.us-west-2.compute.amazonaws.com ssh -i ~/.ssh/telecom-election.pem ec2-user@ec2-54-244-44-107.us-west-2.compute.amazonaws.com ssh -i ~/.ssh/telecom-election.pem ec2-user@ec2-54-149-76-149.us-west-2.compute.amazonaws.com

ssh -i "telecom-election.pem" ec2-user@ec2-35-160-27-42.us-west-2.compute.amazonaws.com

Installation de mongoDB

pwd

/home/ubuntu/

Se mettre sous le repertoire

cd /etc

Suivre:

https://docs.mongodb.com/v3.0/tutorial/install-mongodb-on-amazon/

sudo vi /etc/yum.repos.d/mongodb-org-3.0.repo

```
Sous vi éditer et ajouter les lignes suivantes
[mongodb-org-3.0]
name=MongoDB Repository
baseurl=https://repo.mongodb.org/yum/amazon/2013.03/mongodb-org/3.0/x86_64/
gpgcheck=0
enabled=1
:wq
sudo yum install -y mongodb-org
exemple:
[ec2-user@ip-172-31-14-140 etc]$ sudo yum install -y mongodb-org
Modules complémentaires chargés : priorities, update-motd, upgrade-helper
amzn-main/latest
                                           I 2.1 kB
                                                    00:00
amzn-updates/latest
                                            I 2.3 kB
                                                      00:00
                                           I 2.5 kB
mongodb-org-3.0
                                                     00:00
mongodb-org-3.0/primary_db
                                                1 83 kB
                                                          00:00
Résolution des dépendances
--> Lancement de la transaction de test
---> Le paquet mongodb-org.x86_64 0:3.0.14-1.amzn1 sera installé
--> Traitement de la dépendance : mongodb-org-tools = 3.0.14 pour le paquet :
mongodb-org-3.0.14-1.amzn1.x86 64
--> Traitement de la dépendance : mongodb-org-shell = 3.0.14 pour le paquet :
mongodb-org-3.0.14-1.amzn1.x86 64
--> Traitement de la dépendance : mongodb-org-server = 3.0.14 pour le paquet :
mongodb-org-3.0.14-1.amzn1.x86_64
--> Traitement de la dépendance : mongodb-org-mongos = 3.0.14 pour le paquet :
mongodb-org-3.0.14-1.amzn1.x86 64
--> Lancement de la transaction de test
---> Le paquet mongodb-org-mongos.x86_64 0:3.0.14-1.amzn1 sera installé
---> Le paquet mongodb-org-server.x86_64 0:3.0.14-1.amzn1 sera installé
---> Le paquet mongodb-org-shell.x86 64 0:3.0.14-1.amzn1 sera installé
---> Le paquet mongodb-org-tools.x86_64 0:3.0.14-1.amzn1 sera installé
--> Résolution des dépendances terminée
Dépendances résolues
Package
                  Architecture
                      Version
                                     Dépôt
                                                    Taille
Installation:
```

3.0.14-1.amzn1

mongodb-org-3.0

5.8 k

x86_64

mongodb-org

Installation pour dépendances :

mongodb-org-mongos	x86_64	3.0.14-1.amzn1	mongodb-org-3.0	4.1 M
mongodb-org-server	x86_64	3.0.14-1.amzn1	mongodb-org-3.0	8.6 M
mongodb-org-shell	x86_64	3.0.14-1.amzn1	mongodb-org-3.0	4.4 M
mongodb-org-tools	x86_64	3.0.14-1.amzn1	mongodb-org-3.0	28 M

Résumé de la transaction

Installation 1 Paquet (+4 Paquets en dépendance)

Taille totale des téléchargements : 45 M

Taille d'installation : 118 M Downloading packages:

 (1/5): mongodb-org-3.0.14-1.amzn1.x86_64.rpm
 I 5.8 kB 00:00

 (2/5): mongodb-org-mongos-3.0.14-1.amzn1.x86_64.rpm
 I 4.1 MB 00:00

 (3/5): mongodb-org-server-3.0.14-1.amzn1.x86_64.rpm
 I 8.6 MB 00:00

 (4/5): mongodb-org-shell-3.0.14-1.amzn1.x86_64.rpm
 I 4.4 MB 00:00

 (5/5): mongodb-org-tools-3.0.14-1.amzn1.x86_64.rpm
 I 28 MB 00:00

Total

17 MB/s I 45 MB 00:02

Running transaction check Running transaction test Transaction test succeeded

Running transaction

Installation: mongodb-org-mongos-3.0.14-1.amzn1.x86 64 1/5 Installation: mongodb-org-tools-3.0.14-1.amzn1.x86_64 2/5 Installation: mongodb-org-shell-3.0.14-1.amzn1.x86 64 3/5 Installation: mongodb-org-server-3.0.14-1.amzn1.x86_64 4/5 Installation: mongodb-org-3.0.14-1.amzn1.x86_64 5/5 Vérification: mongodb-org-server-3.0.14-1.amzn1.x86 64 1/5 Vérification: mongodb-org-3.0.14-1.amzn1.x86_64 2/5 Vérification: mongodb-org-shell-3.0.14-1.amzn1.x86_64 3/5 Vérification: mongodb-org-tools-3.0.14-1.amzn1.x86_64 4/5 Vérification: mongodb-org-mongos-3.0.14-1.amzn1.x86_64 5/5

Installé:

mongodb-org.x86_64 0:3.0.14-1.amzn1

Dépendances installées :

mongodb-org-mongos.x86_64 0:3.0.14-1.amzn1 mongodb-org-server.x86_64 0:3.0.14-1.amzn1 mongodb-org-shell.x86_64 0:3.0.14-1.amzn1 mongodb-org-tools.x86_64 0:3.0.14-1.amzn1

Terminé!

[ec2-user@ip-172-31-14-140 etc]\$

sudo vi mongod.conf

```
modifier la ligne contenant l'IP 127.0.0.1 par 0.0.0.0
```

:wq

```
creation d'un dossier data/db à la racine
sudo mkdir -p /data/db
sudo service mongod restart
ajouter terminal
mongo
créer une base de données
use election
db.createUser({ user: 'strublereau', pwd: 'azerty', roles: [{role: 'readWrite',
db:'election'}]})
> db.createUser({
... user: 'strublereau',
... pwd: 'azerty',
... roles: [{role: 'readWrite', db: 'election'}]})
Successfully added user: {
     "user": "strublereau",
     "roles" : [
           {
                "role": "readWrite",
                "db": "election"
           }
     1
}
# creer aun enregistrement
db.test.insert({name:
db.test.find()
```

Se mettre sur terminal poste local : (si mongo est installe en local mongo -u strublereau -p azerty 54.202.224.44/election

Replicat des trois instances

Essayer de reprendre la procedure 1- se connecter sur 3 terminaux sur les trois serveurs :

Un exemple: dhcpwifi-22-89:~ stephanetrublereau\$ ssh -i ~/.ssh/telecom-election.pem ec2- user@ec2-54-214-213-143.us-west-2.compute.amazonaws.com Last login: Fri Jan 6 15:12:02 2017 from dhcpwifi-22-89.enst.fr
ll_) _l (/ Amazon Linux AMI l\l
https://aws.amazon.com/amazon-linux-ami/2016.09-release-notes/ 2- sur chaque terminal : Modifier /etc/mongod.conf pour indiquer le path data
[ec2-user@ip-172-31-12-45 /]\$ sudo vi /etc/mongod.conf
dbpath=/data (au lieu de var/lib/mongo)
3- sur les trois terminaux mongo (si message Please make at least 3379MB available in /data/db/journal or use
smallfiles) sudo mongodreplSet rs0smallfiles dans notre cas sur le deuxième (ec2-54-201-210-236)
4 ouvrir un quatrième terminal et reconnection sur le master :
dhcpwifi-22-108:~ stephanetrublereau\$ source .bashrc dhcpwifi-22-108:~ stephanetrublereau\$ aws1 Last login: Tue Jan 10 09:50:25 2017 from dhcpwifi-22-108.enst.fr
ll_) _l (/ Amazon Linux AMI l\l
https://aws.amazon.com/amazon-linux-ami/2016.09-release-notes/ [ec2-user@ip-172-31-20-9 ~]\$ mongo
MongoDB shell version: 3.0.14 connecting to: test Server has startup warnings: 2017-01-10T10:20:04.212+0000 I CONTROL [initandlisten] ** WARNING: You are running this process as the root user, which is not recommended. 2017-01-10T10:20:04.212+0000 I CONTROL [initandlisten] 2017-01-10T10:20:04.212+0000 I CONTROL [initandlisten] 2017-01-10T10:20:04.212+0000 I CONTROL [initandlisten] ** WARNING: /sys/kernel/mm/transparent_hugepage/defrag is 'always'. 2017-01-10T10:20:04.212+0000 I CONTROL [initandlisten] ** We suggest setting it to 'never' 2017-01-10T10:20:04.212+0000 I CONTROL [initandlisten] > use election

```
switched to db election
> db.getUser("strublereau") # user nest pas creep sur le cluster
at Error (<anonymous>)
  at DB.getUser (src/mongo/shell/db.js:1321:15)
  at (shell):1:4 at src/mongo/shell/db.js:1321
> rs.initiate()
{
     "info2": "no configuration explicitly specified -- making one",
     "me": "ip-172-31-20-9:27017",
     "ok": 1
}
rs0:OTHER> rs.conf()
     " id": "rs0",
     "version": 1,
     "members":[
         {
               " id": 0,
               "host": "ip-172-31-20-9:27017",
               "arbiterOnly": false,
               "buildIndexes": true,
               "hidden" : false,
               "priority": 1,
               "tags" : {
               },
               "slaveDelay": 0,
               "votes": 1
          }
     ],
     "settings" : {
          "chainingAllowed": true,
          "heartbeatTimeoutSecs": 10,
          "getLastErrorModes" : {
          },
          "getLastErrorDefaults" : {
              "w":1,
               "wtimeout": 0
          }
    }
}
# pensez à ajouter une règle au niveau du groupe de sécurité : IP27017
Ajouter print écran
rs0:PRIMARY> rs.add("ip-172-31-31-201:27017")
{ "ok" : 1 }
```

```
rs0:PRIMARY> rs.add("ip-172-31-22-186:27017")
{ "ok" : 1 }
rs0:PRIMARY> rs.conf()
{
     " id": "rs0",
     "version": 3,
     "members":[
          {
                " id":0,
                "host": "ip-172-31-20-9:27017",
                "arbiterOnly": false,
                "buildIndexes": true,
                "hidden": false,
                "priority": 1,
                "tags" : {
                },
                "slaveDelay": 0,
                "votes" : 1
          },
          {
                " id":1,
                "host": "ip-172-31-31-201:27017",
                "arbiterOnly": false,
                "buildIndexes": true,
                "hidden": false,
                "priority": 1,
                "tags" : {
                "slaveDelay": 0,
                "votes" : 1
          },
                " id":2,
                "host": "ip-172-31-22-186:27017",
                "arbiterOnly": false,
                "buildIndexes": true,
                "hidden" : false,
                "priority": 1,
                "tags" : {
                },
                "slaveDelay": 0,
                "votes" : 1
           }
     ],
     "settings" : {
           "chainingAllowed": true,
```

```
"heartbeatTimeoutSecs": 10,
          "getLastErrorModes" : {
          "getLastErrorDefaults" : {
               "w":1,
               "wtimeout": 0
          }
     }
rs0:PRIMARY> rs.status()
{
     "set": "rs0",
     "date": ISODate("2017-01-10T10:24:37.184Z"),
     "myState": 1,
     "members" : [
          {
               "_id": 0,
               "name": "ip-172-31-20-9:27017",
               "health": 1,
               "state": 1,
               "stateStr": "PRIMARY",
               "uptime": 273,
               "optime": Timestamp(1484043862, 1),
               "optimeDate": ISODate("2017-01-10T10:24:22Z"),
               "electionTime": Timestamp(1484043749, 2),
               "electionDate": ISODate("2017-01-10T10:22:29Z"),
               "configVersion": 3,
               "self": true
          },
               "_id":1,
               "name": "ip-172-31-31-201:27017",
               "health": 1,
               "state" : 2,
               "stateStr": "SECONDARY",
               "uptime": 43,
               "optime": Timestamp(1484043862, 1),
               "optimeDate": ISODate("2017-01-10T10:24:22Z").
               "lastHeartbeat": ISODate("2017-01-10T10:24:36.127Z"),
               "lastHeartbeatRecv": ISODate("2017-01-10T10:24:35.843Z"),
               "pingMs": 0,
               "syncingTo": "ip-172-31-20-9:27017",
               "configVersion": 3
          },
               " id": 2,
               "name": "ip-172-31-22-186:27017",
               "health": 1,
```

```
"state" : 2,
               "stateStr": "SECONDARY",
               "uptime": 15,
               "optime": Timestamp(1484043862, 1),
               "optimeDate": ISODate("2017-01-10T10:24:22Z"),
               "lastHeartbeat": ISODate("2017-01-10T10:24:36.129Z"),
               "lastHeartbeatRecv": ISODate("2017-01-10T10:24:36.138Z"),
               "pingMs": 0,
               "syncingTo": "ip-172-31-20-9:27017",
               "configVersion": 3
          }
     "ok": 1
# Création du user
rs0:PRIMARY> db.createUser({ user:'strublereau', pwd: 'azerty', roles:[{role:
'readWrite', db:'election'}]})
Successfully added user: {
     "user": "strublereau",
     "roles":[
          {
               "role": "readWrite",
               "db": "election"
          }
     ]
rs0:PRIMARY> db.test.insert({name:"pierre"})
WriteResult({ "nInserted" : 1 })
rs0:PRIMARY> db.test.find()
{ " id" : ObjectId("5874b70e9df975d2ac231291"), "name" : "pierre" }
rs0:PRIMARY> cfg=rs.conf()
{
     " id": "rs0",
     "version": 3,
     "members" : [
          {
               " id": 0,
               "host": "ip-172-31-20-9:27017",
               "arbiterOnly": false,
               "buildIndexes": true,
               "hidden": false,
               "priority": 1,
               "tags" : {
               "slaveDelay": 0,
               "votes": 1
          },
```

```
" id":1,
               "host": "ip-172-31-31-201:27017",
               "arbiterOnly": false,
               "buildIndexes": true,
               "hidden": false,
               "priority": 1,
               "tags" : {
               "slaveDelay": 0,
               "votes": 1
          },
          {
               " id": 2,
               "host": "ip-172-31-22-186:27017",
               "arbiterOnly": false,
               "buildIndexes": true,
               "hidden": false,
               "priority": 1,
               "tags" : {
               },
               "slaveDelay": 0,
               "votes": 1
          }
     ],
     "settings": {
          "chainingAllowed" : true,
          "heartbeatTimeoutSecs": 10,
          "getLastErrorModes" : {
          "getLastErrorDefaults": {
               "w":1,
               "wtimeout": 0
          }
     }
}
rs0:PRIMARY> cfg.members[0].host = "172.31.31.100:27017"
54.187.196.92:27017
rs0:PRIMARY> cfg.members[1].host = "172.31.31.101:27017"
54.201.210.236:27017
rs0:PRIMARY> cfg.members[2].host = "172.31.31.102:27017"
54.218.17.6:27017
172.31.12.45
rs0:PRIMARY> cfg
{
```

```
"_id": "rs0",
"version": 3,
"members" : [
     {
           "_id": 0,
           "host": "172.31.31.100:27017",
           "arbiterOnly" : false,
           "buildIndexes": true,
           "hidden": false,
           "priority": 1,
           "tags" : {
           },
           "slaveDelay": 0,
           "votes": 1
     },
           "_id":1,
           "host": "172.31.31.101:27017",
           "arbiterOnly" : false,
           "buildIndexes": true,
           "hidden" : false,
           "priority": 1,
           "tags" : {
           "slaveDelay": 0,
           "votes" : 1
     },
           " id": 2,
           "host": "172.31.31.102:27017",
           "arbiterOnly": false,
           "buildIndexes": true,
           "hidden" : false,
           "priority": 1,
           "tags" : {
           "slaveDelay": 0,
           "votes": 1
     }
],
"settings" : {
     "chainingAllowed": true,
     "heartbeatTimeoutSecs": 10,
     "getLastErrorModes" : {
     },
```

```
"getLastErrorDefaults" : {
                "w":1,
                "wtimeout": 0
          }
     }
rs0:PRIMARY> rs.reconfig(cfg)
{ "ok" : 1 }
rs0:PRIMARY> rs.conf()
     "_id": "rs0",
     "version": 4,
     "members" : [
          {
                " id":0,
                "host": "172.31.31.100:27017",
                "arbiterOnly": false,
                "buildIndexes": true,
                "hidden" : false,
                "priority": 1,
                "tags" : {
                },
                "slaveDelay": 0,
                "votes": 1
          },
                "_id":1,
                "host": "172.31.31.101:27017",
                "arbiterOnly": false,
                "buildIndexes": true,
                "hidden": false,
                "priority": 1,
                "tags" : {
                "slaveDelay": 0,
                "votes" : 1
          },
                " id": 2,
                "host": "172.31.31.102:27017",
                "arbiterOnly": false,
                "buildIndexes": true,
                "hidden" : false,
                "priority": 1,
                "tags" : {
                },
```

```
"slaveDelay": 0,
              "votes": 1
         }
    ],
     "settings": {
         "chainingAllowed": true,
         "heartbeatTimeoutSecs": 10,
         "getLastErrorModes" : {
         "getLastErrorDefaults" : {
              "w":1,
              "wtimeout": 0
    }
}
6- On arrête le primaire (CTRL + C) sur le terminal du replicat et on le
redémarre
rs0:PRIMARY> rs.status()
2017-01-10T10:41:38.161+0000 | NETWORK | DBClientCursor::init call() failed
at DBQuery. exec (src/mongo/shell/guery.js:83:36)
  at DBQuery.hasNext (src/mongo/shell/query.js:240:10)
  at DBCollection.findOne (src/mongo/shell/collection.js:187:19)
  at DB.runCommand (src/mongo/shell/db.js:58:41)
  at DB.adminCommand (src/mongo/shell/db.js:66:41)
  at Function.rs.status (src/mongo/shell/utils.js:937:37)
  at (shell):1:4 at src/mongo/shell/query.js:83
2017-01-10T10:41:38.163+0000 | NETWORK trying reconnect to 127.0.0.1:27017
(127.0.0.1) failed
2017-01-10T10:41:38.163+0000 | NETWORK reconnect 127.0.0.1:27017
(127.0.0.1) ok
rs0:SECONDARY> rs.status()
{
    "set": "rs0",
    "date": ISODate("2017-01-10T10:41:42.297Z"),
    "myState": 2,
    "members" : [
         {
              " id": 0,
              "name": "172.31.31.100:27017",
              "health": 1,
              "state" : 2,
              "stateStr": "SECONDARY",
              "uptime": 15,
              "optime": Timestamp(1484044535, 1),
              "optimeDate": ISODate("2017-01-10T10:35:35Z"),
              "configVersion": 4,
              "self": true
```

```
},
               "_id": 1,
               "name": "172.31.31.101:27017",
               "health": 1,
               "state" : 2,
               "stateStr": "SECONDARY",
               "uptime": 14,
               "optime": Timestamp(1484044535, 1),
               "optimeDate": ISODate("2017-01-10T10:35:35Z"),
               "lastHeartbeat": ISODate("2017-01-10T10:41:41.765Z"),
               "lastHeartbeatRecv": ISODate("2017-01-10T10:41:40.475Z"),
               "pingMs": 1,
               "configVersion": 4
          },
               "_id": 2,
               "name": "172.31.31.102:27017",
               "health": 1,
               "state": 1,
               "stateStr": "PRIMARY",
               "uptime" : 14,
               "optime": Timestamp(1484044535, 1),
               "optimeDate": ISODate("2017-01-10T10:35:35Z"),
               "lastHeartbeat": ISODate("2017-01-10T10:41:41.765Z"),
               "lastHeartbeatRecv": ISODate("2017-01-10T10:41:40.965Z"),
               "electionTime" : Timestamp(1484044875, 1),
               "electionDate": ISODate("2017-01-10T10:41:15Z"),
               "configVersion": 4
          }
     ],
     "ok": 1
7- on remet le premier serveur (arrêt du master ancien secondaire .... et
redémarrage sur terminal)
rs0:SECONDARY> rs.status()
{
     "set": "rs0",
     "date": ISODate("2017-01-10T10:42:40.778Z"),
     "myState": 1,
     "members" : [
          {
               "name": "172.31.31.100:27017",
               "health": 1,
               "state": 1,
               "stateStr": "PRIMARY",
               "uptime": 73,
```

```
"optime": Timestamp(1484044535, 1),
               "optimeDate": ISODate("2017-01-10T10:35:35Z"),
               "electionTime" : Timestamp(1484044941, 1),
               "electionDate": ISODate("2017-01-10T10:42:21Z"),
               "configVersion": 4,
               "self": true
          },
               "_id": 1,
               "name": "172.31.31.101:27017",
               "health": 1,
               "state" : 2,
               "stateStr": "SECONDARY",
               "uptime": 73,
               "optime": Timestamp(1484044535, 1),
               "optimeDate": ISODate("2017-01-10T10:35:35Z"),
               "lastHeartbeat": ISODate("2017-01-10T10:42:39.799Z"),
               "lastHeartbeatRecv": ISODate("2017-01-10T10:42:40.509Z"),
               "pingMs": 0,
               "configVersion": 4
          },
               "_id": 2,
               "name": "172.31.31.102:27017",
               "health": 1,
               "state" : 2,
               "stateStr": "SECONDARY",
               "uptime" : 8,
               "optime": Timestamp(1484044535, 1),
               "optimeDate": ISODate("2017-01-10T10:35:35Z"),
               "lastHeartbeat": ISODate("2017-01-10T10:42:39.808Z"),
               "lastHeartbeatRecv" : ISODate("2017-01-10T10:42:39.958Z"),
               "pingMs": 0,
               "configVersion": 4
          }
     ],
     "ok": 1
8- creation d'enregistrement de vérification
rs0:PRIMARY> db.test.insert({name:"romain"})
WriteResult({ "nInserted" : 1 })
rs0:PRIMARY> db.test.insert({name:"stephane"})
WriteResult({ "nInserted" : 1 })
rs0:PRIMARY> db.test.insert({name:"daphne"})
WriteResult({ "nInserted" : 1 })
rs0:PRIMARY> db.test.insert({name:"fares"})
WriteResult({ "nInserted" : 1 })
rs0:PRIMARY> db.test.insert({name:"adam"})
WriteResult({ "nInserted" : 1 })
```

10- sur chaque serveur mongo sudo vi /etc/mongorc.js
i rs.slaveOk()
esc :wq
exemple : Last login: Mon Jan 9 17:13:41 on ttys002
dhcpwifi-22-108:~ stephanetrublereau\$ ssh -i ~/.ssh/telecom-election.pem ec2-user@ec2-54-244-43-231.us-west-2.compute.amazonaws.com Last login: Mon Jan 9 16:08:59 2017 from dhcpwifi-22-108.enst.fr
ll_) _l (/ Amazon Linux AMI l\ll
https://aws.amazon.com/amazon-linux-ami/2016.09-release-notes/ [[ec2-user@ip-172-31-7-89 ~]\$ sudo vi /etc/mongorc.js
i rs.slaveOk()
esc :wq
[ec2-user@ip-172-31-7-89 ~]\$ ^C [ec2-user@ip-172-31-7-89 ~]\$ exit déconnexion Connection to ec2-54-244-43-231.us-west-2.compute.amazonaws.com closed.
dhcpwifi-22-108:~ stephanetrublereau\$ ssh -i ~/.ssh/telecom-election.pem ec2-user@ec2-54-244-44-107.us-west-2.compute.amazonaws.com Last login: Mon Jan 9 16:08:26 2017 from dhcpwifi-22-108.enst.fr
ll_) _l (/ Amazon Linux AMI l\l
https://aws.amazon.com/amazon-linux-ami/2016.09-release-notes/

https://aws.amazon.com/amazon-linux-ami/2016.09-release-notes/5 package(s) needed for security, out of 9 available

Run "sudo yum update" to apply all updates.

[ec2-user@ip-172-31-14-140 ~]\$ sudo vi /etc/mongorc.js

```
rs.slaveOk()
esc
:wq
[ec2-user@ip-172-31-14-140 ~]$ exit
déconnexion
Connection to ec2-54-244-44-107.us-west-2.compute.amazonaws.com closed.
dhcpwifi-22-108:~ stephanetrublereau$ ssh -i ~/.ssh/telecom-election.pem ec2-
user@ec2-54-149-76-149.us-west-2.compute.amazonaws.com
Last login: Mon Jan 9 16:14:16 2017 from dhcpwifi-22-108.enst.fr
    __l __l_ )
    _l ( / Amazon Linux AMI
   https://aws.amazon.com/amazon-linux-ami/2016.09-release-notes/
5 package(s) needed for security, out of 9 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-12-45 ~]$ sudo vi /etc/mongorc.js
rs.slaveOk()
esc
:wa
[ec2-user@ip-172-31-12-45 ~]$ exit
déconnexion
Connection to ec2-54-149-76-149.us-west-2.compute.amazonaws.com closed.
11- Lancer un notebook python
import pymongo
#client = pymongo.MongoClient("mongodb://
strublereau:azerty@54.187.196.92:27017,54.201.210.236:27017,54.218.17.6:27017
/election?replicaSet=rs0") # defaults to port 27017
client = pymongo.MongoClient("mongodb://drussier:password@52.214.165.62/
elections") # defaults to port 27017
print(client.election.test.find())
curs = client.election.test.find()
for i in curs:
  print(i)
```

```
print(type(i))
ANNEXES:
Redémarrage du cluster
Sous repertoire perso:
dhcpwifi-23-55:~ stephanetrublereau$ pwd
/Users/stephanetrublereau
Modifier sous votre repertoire le .bash profile pour qu'il lance la commande de prise
en compte du fichier .bashrc :
vi .bash_profile
source ~/.bashrc
Esc
:wq
vi .bashrc
alias aws1='ssh -i ~/.ssh/telecom-election.pem ec2-user@ec2-54-187-196-92.us-
west-2.compute.amazonaws.com'
alias aws2='ssh -i ~/.ssh/telecom-election.pem ec2-user@ec2-54-201-210-236.us-
west-2.compute.amazonaws.com'
alias aws3='ssh -i ~/.ssh/telecom-election.pem ec2-user@ec2-54-218-17-7.us-
west-2.compute.amazonaws.com'
Esc
:wq
Copier telecom-election.pem sur votre repertoire .ssh
6d4N33qThCex
mot de passe jupyter : telecomparistech
```