

Procedure voor het omgaan met een gecorrupte MongoDB in CPS Mongo Kopie Set

Inhoud

[Inleiding](#)

[Voorwaarden](#)

[Vereisten](#)

[Gebruikte componenten](#)

[Achtergrondinformatie](#)

[Probleem](#)

[Procedure om de gecorrumpeerde DB-lidstaat te repareren](#)

Inleiding

Dit document beschrijft de procedure om een gecorrumpeerde MongoDB Data Base (DB) aan te pakken in Cisco Policy Suite (CPS)-replica's.

Voorwaarden

Vereisten

Cisco raadt kennis van de volgende onderwerpen aan:

- Linux
- CPS
- MongoDB

Opmerking: Cisco raadt u aan om voorkeurstoegang tot CPS CLI te hebben.

Gebruikte componenten

De informatie in dit document is gebaseerd op de volgende software- en hardware-versies:

- CPS 2002
- MongoDB v3.6.17
- UCS-B

De informatie in dit document is gebaseerd op de apparaten in een specifieke laboratoriumomgeving. Alle apparaten die in dit document worden beschreven, hadden een opgeschoonde (standaard)configuratie. Als uw netwerk levend is, zorg er dan voor dat u de mogelijke impact van om het even welke opdracht begrijpt.

Achtergrondinformatie

MongoDB is een bron-beschikbaar cross-platform document-georiënteerd database (DB)-programma. Gerubriceerd als een NoSQL DB-programma. MongoDB wordt uitgebreid gebruikt in CPS om de verschillende typen DB's te beheren, zoals SESSIE, Subscriber Profile Repository (SPR), Balance enzovoort.

Probleem

MongoDB wordt gecorrumped als je een oneigenlijke db defragmentatie doet terwijl aido_client nog actief is binnen de sessie.

Dit brengt MongoDB ertoe gegevens in het geheugen te houden maar kan ze niet lokaal op dopaden schrijven.

Dit kan gegevensverlies veroorzaken als het primaire lid (mongoinstantie) opnieuw wordt gestart op de getroffen replica-set of de sessionhouder VM restart.

Om te begrijpen hoe een DB-lid gecorrumped lijkt te zijn, kunt u inloggen bij een van de problematische leden en controles uitvoeren.

Stap 1. Wanneer u de opdracht **toont dbs**, geeft u geen uitvoer van DB-lijst terug. Maar als je de telling in de DB controleert die je kent, geeft die de telling terug.

```
[root@lab-1-pcrfclient01 ~]# mongo --host sessionmgr05:27737
MongoDB shell version v3.6.17
connect to: mongod://sessionmgr05:27737/?gssapiServiceName=mongod
Implicit session: session { "id" : UUID("a8f9b0eb-6e78-4bcd-bd63-60a9a9d813d0") }
MongoDB server version: 3.6.17
Server has startup warnings:
2022-03-09T00:53:26.910-0300 I CONTROL [initandlisten]
2022-03-09T00:53:26.910-0300 I CONTROL [initandlisten] ** WARNING: Access control is not
enabled for the database.
2022-03-09T00:53:26.910-0300 I CONTROL [initandlisten] **           Read and write access to
data and configuration is unrestricted.
2022-03-09T00:53:26.910-0300 I CONTROL [initandlisten] **
2022-03-09T00:53:26.910-0300 I CONTROL [initandlisten]
2022-03-09T00:53:26.949-0300 I REPL [replexec-0]
2022-03-09T00:53:26.949-0300 I REPL [replexec-0] ** WARNING: This replica set uses arbiters,
but readConcern:majority is enabled
2022-03-09T00:53:26.949-0300 I REPL [replexec-0] **           for this node. This is not a
recommended configuration. Please see
2022-03-09T00:53:26.949-0300 I REPL [replexec-0] **
2022-03-09T00:53:26.949-0300 I REPL [replexec-0]
set01e:PRIMARY>
set01e:PRIMARY> show dbs ## "no dbs reported"
set01e:PRIMARY> use session_cache ## "Switched to a known DB"
switched to db session_cache
set01e:PRIMARY> db.session.count()
223037 ## "DB has the content inside, hence the total record count is shown"
set01e:PRIMARY> use session_cache_2
switched to db session_cache_2
set01e:PRIMARY> db.session.count()
223643
set01e:PRIMARY> use session_cache_3
switched to db session_cache_3
set01e:PRIMARY> db.session.count()
222939
set01e:PRIMARY> use session_cache_4
```

```
switched to db session_cache_4
set01e:PRIMARY> db.session.count()
223692
set01e:PRIMARY>
set01e:PRIMARY> exit
bye
```

Stap 2. Wanneer je `diagnostiek.sh --get_shard` runt, toont de applicatie shard de gegevens. Dit wordt feitelijk opgeslagen in geheugen, niet in het DBPATH van de Sessionhouder Virtual Machine (VM).

```
[root@lab-1-pcrfclient01 ~]# diagnostics.sh --get_shard
CPS Diagnostics GR Multi-Node Environment
```

```
|-----|
|-----|
|                                     SHARD STATUS INFORMATION
|      Date : 2022-03-09 11:00:23      |
|-----|
|-----|
```

Shard Id Count	Mongo DB	State	Backup DB	Removed	Session
43	sessionmgr01:27717/session_cache	online	false	false	223873
1	sessionmgr01:27717/session_cache_2	online	false	false	222918
2	sessionmgr01:27717/session_cache_3	online	false	false	223720
3	sessionmgr01:27717/session_cache_4	online	false	false	223393
8	sessionmgr05:27737/session_cache	online	false	false	223188
9	sessionmgr05:27737/session_cache_2	online	false	false	223554
10	sessionmgr05:27737/session_cache_3	online	false	false	222920
11	sessionmgr05:27737/session_cache_4	online	false	false	223562
12	sessionmgr07:27747/session_cache	online	false	false	222663
13	sessionmgr07:27747/session_cache_2	online	false	false	222599
14	sessionmgr07:27747/session_cache_3	online	false	false	222475
15	sessionmgr07:27747/session_cache_4	online	false	false	223446
16	sessionmgr09:27757/session_cache	online	false	false	223246
17	sessionmgr09:27757/session_cache_2	online	false	false	223669
18	sessionmgr09:27757/session_cache_3	online	false	false	223711
19	sessionmgr09:27757/session_cache_4	online	false	false	223311
35	sessionmgr13:27717/session_cache	online	true	false	0
36	sessionmgr13:27717/session_cache_2	online	true	false	0
37	sessionmgr13:27717/session_cache_3	online	true	false	0
38	sessionmgr13:27717/session_cache_4	online	true	false	0

```
Rebalance Status: Rebalanced
```

Stap 3. Deze uitvoer toont aan dat er geen inhoud is in het DB PATH waar de eigenlijke gegevens moeten worden opgeslagen.

```
[SESSION-SET3]
SETNAME=set01e
OPLOG_SIZE=5120
ARBITER=lab-1-arb-sessmgr15:27737
ARBITER_DATA_PATH=/var/data/sessions.1/set01e
PRIMARY-MEMBERS
MEMBER1=lab-1-sessionmgr05:27737
MEMBER2=lab-1-sessionmgr06:27737
SECONDARY-MEMBERS
MEMBER3=lab-2-sessionmgr05:27737
MEMBER4=lab-2-sessionmgr06:27737
DATA_PATH=/var/data/sessions.1/set01e ## "DB DATA Path of set01e replicaset"
[SESSION-SET3-END]
```

Secure Shell (SSH) aan de bijbehorende sessionhouder en navigeer naar de DB_PATH die in de mongoconfiguratie is vermeld. Je kunt de inhoud zien in de DB_PATH is leeg.

```
[root@lab-1-sessionmgr05 ~]# cd /var/data/sessions.1/set01e
[root@lab-1-sessionmgr05 ~]# ls -lrt
total 0
[root@lab-1-sessionmgr05 ~]#
```

Met deze controles kan je tot de conclusie komen dat MongoDB gecorrumpreed is.

Procedure om de gecorrumpreedde DB-lidstaat te repareren

Stap 1. SSH voor de primaire leden van de problematische replica-set.

Stap 2. Stop de aido_client (verzekert u dat u de aido client stopt op alle leden van de replica-set die hoort bij set01e).

Stap 3. Sluit aan op de mongowand van set01e en voer deze stappen uit.

```
# mongo --port 27737
# show dbs                                # Ensure this returns empty output.
# use admin
# db.repairDatabase()
# use config
# db.repairDatabase()
# exit
```

```
[root@lab-1-sessionmgr05 set01e]# mongo --port 27737
MongoDB shell version v3.6.17
connect to: mongod://127.0.0.1:27737/?gssapiServiceName=mongod
Implicit session: session { "id" : UUID("ff9df861-0b42-4e8a-99c1-3583670e1926") }
MongoDB server version: 3.6.17
Server has startup warnings:
2022-03-09T00:53:26.910-0300 I CONTROL [initandlisten]
2022-03-09T00:53:26.910-0300 I CONTROL [initandlisten] ** WARNING: Access control is not
enabled for the database.
2022-03-09T00:53:26.910-0300 I CONTROL [initandlisten] **           Read and write access to
data and configuration is unrestricted.
2022-03-09T00:53:26.910-0300 I CONTROL [initandlisten] **
2022-03-09T00:53:26.910-0300 I CONTROL [initandlisten]
2022-03-09T00:53:26.949-0300 I REPL [replexec-0]
2022-03-09T00:53:26.949-0300 I REPL [replexec-0] ** WARNING: This replica set uses arbiters,
but readConcern:majority is enabled
2022-03-09T00:53:26.949-0300 I REPL [replexec-0] **           for this node. This is not a
recommended configuration. Please see
2022-03-09T00:53:26.949-0300 I REPL [replexec-0] **
2022-03-09T00:53:26.949-0300 I REPL [replexec-0]
set01e:PRIMARY> use admin
switched to db admin
set01e:PRIMARY> db.repairDatabase()
{
  "ok" : 1,
  "operationTime" : Timestamp(1647319246, 352),
  "$clusterTime" : {
    "clusterTime" : Timestamp(1647319246, 352),
    "signature" : {
      "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA="),
      "keyId" : NumberLong(0)
    }
  }
}
```

```

}
set01e:PRIMARY>
set01e:PRIMARY> use config
switched to db config
set01e:PRIMARY> db.repairDatabase()
{
  "ok" : 1,
  "operationTime" : Timestamp(1647319301, 218),
  "$clusterTime" : {
    "clusterTime" : Timestamp(1647319301, 218),
    "signature" : {
      "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAAA="),
      "keyId" : NumberLong(0)
    }
  }
}
set01e:PRIMARY> show dbs
admin 0.031GB
config 0.031GB
set01e:PRIMARY> exit

```

Stap 4. Sluit terug op dezelfde replica instant en voer deze opdrachten uit op alle sessie_cache_dbs. Hier wordt een voorbeeld van sessie_cache DB gegeven.

```

# mongo --port 27737
# use session_cache
# db.session.count() # Use this to check that session counts are still intact
# db.stats(1024*1024*1024) # Use this to verify that the storage size is proper
# db.repairDatabase()
# exit

```

```

[root@lab-1-sessionmgr05 set01e]# mongo --port 27737
MongoDB shell version v3.6.17
connect to: mongoddb://127.0.0.1:27737/?gssapiServiceName=mongoddb
Implicit session: session { "id" : UUID("73794d11-0785-4520-ba82-19f0d2bba338") }
MongoDB server version: 3.6.17
Server has startup warnings:
2022-03-09T00:53:26.910-0300 I CONTROL [initandlisten]
2022-03-09T00:53:26.910-0300 I CONTROL [initandlisten] ** WARNING: Access control is not
enabled for the database.
2022-03-09T00:53:26.910-0300 I CONTROL [initandlisten] **           Read and write access to
data and configuration is unrestricted.
2022-03-09T00:53:26.910-0300 I CONTROL [initandlisten] **
2022-03-09T00:53:26.910-0300 I CONTROL [initandlisten]
2022-03-09T00:53:26.949-0300 I REPL [replexec-0]
2022-03-09T00:53:26.949-0300 I REPL [replexec-0] ** WARNING: This replica set uses arbiters,
but readConcern:majority is enabled
2022-03-09T00:53:26.949-0300 I REPL [replexec-0] **           for this node. This is not a
recommended configuration. Please see
2022-03-09T00:53:26.949-0300 I REPL [replexec-0] **
2022-03-09T00:53:26.949-0300 I REPL [replexec-0]
set01e:PRIMARY>
set01e:PRIMARY>
set01e:PRIMARY>
set01e:PRIMARY> show dbs
admin 0.031GB
config 0.031GB
set01e:PRIMARY> use session_cache
switched to db session_cache
set01e:PRIMARY>
set01e:PRIMARY> db.stats(1024*1024*1024)
{
  "db" : "session_cache",

```

```

"collections" : 3,
"views" : 0,
"objects" : 212467,
"avgObjSize" : 8175.252062673262,
"dataSize" : 1.6176805645227432,
"storageSize" : 2.471107453107834,
"numExtents" : 22,
"indexes" : 3,
"indexSize" : 0.30870679020881653,
"fileSize" : 0,
"nsSizeMB" : 16,
"extentFreeList" : {
"num" : 0,
"totalSize" : 0
},
"dataFileVersion" : {
"major" : 4,
"minor" : 22
},
"fsUsedSize" : 38.36811065673828,
"fsTotalSize" : 47.044921875,
"ok" : 1,
"operationTime" : Timestamp(1647321405, 102),
"$clusterTime" : {
"clusterTime" : Timestamp(1647321405, 103),
"signature" : {
"hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAAA="),
"keyId" : NumberLong(0)
}
}
}
}
set01e:PRIMARY> db.repairDatabase()
{
"ok" : 1,
"operationTime" : Timestamp(1647321444, 84),
"$clusterTime" : {
"clusterTime" : Timestamp(1647321444, 84),
"signature" : {
"hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAAA="),
"keyId" : NumberLong(0)
}
}
}
}
set01e:PRIMARY> show dbs
admin          0.031GB
config         0.031GB
session_cache  2.499GB

```

Opmerking: Herhaal stap 4. voor de rest van de sessie_cache DB's.

Stap 5. Zorg ervoor dat **dbs** nu alle DB's toont wanneer u dezelfde mongo-instantie opnieuw aansluit.

```

mongo --port 27737
set01e:PRIMARY> show dbs
admin 0.031GB
config 0.031GB
session_cache 2.499GB
session_cache_2 2.499GB
session_cache_3 2.499GB
session_cache_4 2.499GB

```

Stap 6. Zorg ervoor dat het db-pad nu alle gegevens lokaal in de sessionhouder bevat. U kunt het respectievelijke gegevenspad van de replica-set controleren. In dit geval is het **/var/data/sessies.1/set01e**.

```
[root@lab-1-sessionmgr05 set01~]# cd /var/data/sessions.1/set01e
[root@lab-1-sessionmgr05 set01e]# ls
admin session_cache session_cache_2.1 session_cache_2.7 session_cache_3.1 session_cache_3.7
session_cache_4.1 session_cache_4.7 session_cache.8
admin.0 session_cache.0 session_cache_2.2 session_cache_2.8 session_cache_3.2 session_cache_3.8
session_cache_4.2 session_cache_4.8 session_cache.ns
admin.ns session_cache.1 session_cache_2.3 session_cache_2.ns session_cache_3.3
session_cache_3.ns session_cache_4.3 session_cache_4.ns _tmp
config session_cache.2 session_cache_2.4 session_cache.3 session_cache_3.4 session_cache.4
session_cache_4.4 session_cache.5
config.0 session_cache_2 session_cache_2.5 session_cache_3 session_cache_3.5 session_cache_4
session_cache_4.5 session_cache.6
config.ns session_cache_2.0 session_cache_2.6 session_cache_3.0 session_cache_3.6
session_cache_4.0 session_cache_4.6 session_cache.7
```

Stap 7. SSH aan hetzelfde locatie-secundaire lid en voer lokale sync voor het gegevenspad met het primaire lid uit.

```
ssh to lab-1-sessionmgr06 (Secondary member)
Ensure to stop aido_client
```

```
# monit stop aido_client
```

```
Ensure to stop mongo processes
```

```
# /etc/init.d/sessionmgr-27737 stop # Wait for 10 seconds and start the service
back on
```

Zorg ervoor dat het gegevenspad **/var/data/sessies.1/set01e** leeg is en als dit niet het geval is, verwijdert het **datapad** met het gebruik van **rm -rf/var/data/sessies.1/set01e/***, en start het mongoproces.

```
# /etc/init.d/sessionhouder-27737 start
```

```
[root@lab-1-sessionmgr06 ~]# monit stop aido_client
[root@lab-1-sessionmgr06 ~]# monit status aido_client
Monit 5.26.0 uptime: 52d 20h 59m
```

```
Process 'aido_client'
status Not monitored
monitoring status Not monitored
monitoring mode active
on reboot start
data collected Wed, 23 Mar 2022 08:08:46
```

```
[root@lab-1-sessionmgr06 ~]#
[root@lab-1-sessionmgr06 ~]# /etc/init.d/sessionmgr-27737 stop
stop sessionmgr-27737 (via systemctl): [ OK ]
[root@lab-1-sessionmgr06 ~]# rm -rf /var/data/sessions.1/set01e/*
[root@lab-1-sessionmgr06 ~]# cd /var/data/sessions.1/set01e/
[root@lab-1-sessionmgr06 set01e]# ls
[root@lab-1-sessionmgr06 set01e]#
```

```
[root@lab-1-sessionmgr06 set01e]# /etc/init.d/sessionmgr-27737 start
Starting sessionmgr-27737 (via systemctl): [ OK ]
```

Stap 8. Controleer dat de gegevens nu lokaal zijn gekopieerd naar `/var/data/sessies.1/set01e`.

```
[root@lab-1-sessionmgr06 ~]# cd /var/data/sessions.1/set01e/
[root@lab-1-sessionmgr06 set01e]# ls
admin.0 local.1 local.3 local.7 mongod.lock session_cache_2.3 session_cache_2.7
session_cache_3.1 session_cache_3.5 session_cache_3.ns
admin.ns local.10 local.4 local.8 session_cache_2.0 session_cache_2.4 session_cache_2.8
session_cache_3.2 session_cache_3.6 storage.bson
diagnostic.data local.11 local.5 local.9 session_cache_2.1 session_cache_2.5 session_cache_2.ns
session_cache_3.3 session_cache_3.7 _tmp
local.0 local.2 local.6 local.ns session_cache_2.2 session_cache_2.6 session_cache_3.0
session_cache_3.4 session_cache_3.8
[root@lab-1-sessionmgr06 set01e]#
```

Opmerking: Herhaal Stap 7 en Stap 8. voor de secundaire leden van de geografische locatie. Hier in het lab zijn de leden lab-2-sessionmgr05 en lab-2-sessionmgr06.

Stap 9. Zodra alle secundaire DB's zijn teruggewonnen (lokale en geo-locatie), start u de mongoservice op het primaire lid opnieuw.

```
[root@lab-1-sessionmgr05 ~]# /etc/init.d/sessionmgr-27737 stop
stop sessionmgr-27737 (via systemctl): [ OK ]
```

Wacht 10 seconden en bevestig dat de primaire switch over is geslaagd.

```
[root@lab-1-sessionmgr06 ~]# mongo --port 27737
MongoDB shell version v3.6.17
connect to: mongod://127.0.0.1:27737/?gssapiServiceName=mongod
Implicit session: session { "id" : UUID("ba8e49fa-ad0f-4ac6-8ef8-b4da0a88fe33") }
MongoDB server version: 3.6.17
Server has startup warnings:
2022-03-15T02:54:29.546-0300 I CONTROL [initandlisten]
2022-03-15T02:54:29.546-0300 I CONTROL [initandlisten] ** WARNING: Access control is not enabled
for the database.
2022-03-15T02:54:29.546-0300 I CONTROL [initandlisten] ** Read and write access to data and
configuration is unrestricted.
2022-03-15T02:54:29.546-0300 I CONTROL [initandlisten] **
2022-03-15T02:54:29.546-0300 I CONTROL [initandlisten]
set01e:PRIMARY>
set01e:PRIMARY>
set01e:PRIMARY> show dbs
admin 0.031GB
config 0.031GB
local 5.029GB
session_cache 2.499GB
session_cache_2 2.499GB
session_cache_3 2.499GB
session_cache_4 2.499GB
set01e:PRIMARY> show dbs
admin 0.031GB
config 0.031GB
local 5.029GB
session_cache 2.499GB
session_cache_2 2.499GB
session_cache_3 2.499GB
```



```
session_cache_4 2.499GB
set01e:PRIMARY> rs.status()
{
  "set" : "set01e",
  "date" : ISODate("2022-03-15T06:13:19.991Z"),
  "myState" : 1,
  "term" : NumberLong(36),
  "syncingTo" : "",
  "syncSourceHost" : "",
  "syncSourceId" : -1,
  "heartbeatIntervalMillis" : NumberLong(2000),
  "optimes" : {
    "lastCommittedOpTime" : {
      "ts" : Timestamp(1647324799, 335),
      "t" : NumberLong(36)
    },
    "readConcernMajorityOpTime" : {
      "ts" : Timestamp(1647324799, 335),
      "t" : NumberLong(36)
    },
    "appliedOpTime" : {
      "ts" : Timestamp(1647324799, 338),
      "t" : NumberLong(36)
    },
    "durableOpTime" : {
      "ts" : Timestamp(0, 0),
      "t" : NumberLong(-1)
    }
  },
  "members" : [
    {
      "_id" : 0,
      "name" : "lab-2-sessionmgr06:27737",
      "health" : 1,
      "state" : 2,
      "stateStr" : "SECONDARY",
      "uptime" : 486,
      "optime" : {
        "ts" : Timestamp(1647324799, 94),
        "t" : NumberLong(36)
      },
      "optimeDurable" : {
        "ts" : Timestamp(0, 0),
        "t" : NumberLong(-1)
      },
      "optimeDate" : ISODate("2022-03-15T06:13:19Z"),
      "optimeDurableDate" : ISODate("1970-01-01T00:00:00Z"),
      "lastHeartbeat" : ISODate("2022-03-15T06:13:19.267Z"),
      "lastHeartbeatRecv" : ISODate("2022-03-15T06:13:18.270Z"),
      "pingMs" : NumberLong(0),
      "lastHeartbeatMessage" : "",
      "syncingTo" : "lab-1-sessionmgr06:27737",
      "syncSourceHost" : "lab-1-sessionmgr06:27737",
      "syncSourceId" : 4,
      "infoMessage" : "",
      "configVersion" : 8
    },
    {
      "_id" : 1,
      "name" : "lab-1-sessionmgr05:27737",
      "health" : 1,
      "state" : 2,
      "stateStr" : "SECONDARY",
      "uptime" : 885,
```

```
"optime" : {
"ts" : Timestamp(1647324799, 96),
"t" : NumberLong(36)
},
"optimeDurable" : {
"ts" : Timestamp(0, 0),
"t" : NumberLong(-1)
},
"optimeDate" : ISODate("2022-03-15T06:13:19Z"),
"optimeDurableDate" : ISODate("1970-01-01T00:00:00Z"),
"lastHeartbeat" : ISODate("2022-03-15T06:13:19.270Z"),
"lastHeartbeatRecv" : ISODate("2022-03-15T06:13:18.270Z"),
"pingMs" : NumberLong(0),
"lastHeartbeatMessage" : "",
"syncingTo" : "lab-1-sessionmgr06:27737",
"syncSourceHost" : "lab-1-sessionmgr06:27737",
"syncSourceId" : 4,
"infoMessage" : "",
"configVersion" : 8
},
{
"_id" : 2,
"name" : "lab-1-arb-sessmgr15:27737",
"health" : 1,
"state" : 7,
"stateStr" : "ARBITER",
"uptime" : 1130,
"lastHeartbeat" : ISODate("2022-03-15T06:13:19.240Z"),
"lastHeartbeatRecv" : ISODate("2022-03-15T06:13:18.856Z"),
"pingMs" : NumberLong(0),
"lastHeartbeatMessage" : "",
"syncingTo" : "",
"syncSourceHost" : "",
"syncSourceId" : -1,
"infoMessage" : "",
"configVersion" : 8
},
{
"_id" : 3,
"name" : "lab-1-sessionmgr05:27737",
"health" : 0,
"state" : 8,
"stateStr" : "(not reachable/healthy)",
"uptime" : 0,
"optime" : {
"ts" : Timestamp(0, 0),
"t" : NumberLong(-1)
},
"optimeDurable" : {
"ts" : Timestamp(0, 0),
"t" : NumberLong(-1)
},
"optimeDate" : ISODate("1970-01-01T00:00:00Z"),
"optimeDurableDate" : ISODate("1970-01-01T00:00:00Z"),
"lastHeartbeat" : ISODate("2022-03-15T06:13:19.299Z"),
"lastHeartbeatRecv" : ISODate("2022-03-15T06:11:58.086Z"),
"pingMs" : NumberLong(0),
"lastHeartbeatMessage" : "Connection refused",
"syncingTo" : "",
"syncSourceHost" : "",
"syncSourceId" : -1,
"infoMessage" : "",
"configVersion" : -1
},
}
```

```

{
  "_id" : 4,
  "name" : "lab-1-sessionmgr06:27737",
  "health" : 1,
  "state" : 1,
  "stateStr" : "PRIMARY",
  "uptime" : 1130,
  "optime" : {
    "ts" : Timestamp(1647324799, 338),
    "t" : NumberLong(36)
  },
  "optimeDate" : ISODate("2022-03-15T06:13:19Z"),
  "syncingTo" : "",
  "syncSourceHost" : "",
  "syncSourceId" : -1,
  "infoMessage" : "",
  "electionTime" : Timestamp(1647324719, 72),
  "electionDate" : ISODate("2022-03-15T06:11:59Z"),
  "configVersion" : 8,
  "self" : true,
  "lastHeartbeatMessage" : ""
}
],
"ok" : 1,
"operationTime" : Timestamp(1647324799, 338),
"$clusterTime" : {
  "clusterTime" : Timestamp(1647324799, 338),
  "signature" : {
    "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAAA="),
    "keyId" : NumberLong(0)
  }
}
}
}

```

Stap 10. Start de mongoservice opnieuw op lab-1-sessionhouder05, dat het eerste lid was.

```

[root@lab-1-sessionmgr05 ~]# /etc/init.d/sessionmgr-27737 start
Starting sessionmgr-27737 (via systemctl): [ OK ]

```

Stap 1. Start aido_client op alle replica-leden van de set01e replica-set die in stap 2 is gestopt.