TUGAS 4 BASIS DATA LANJUT

REPLACE MONGODB

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Langkah-langkah :

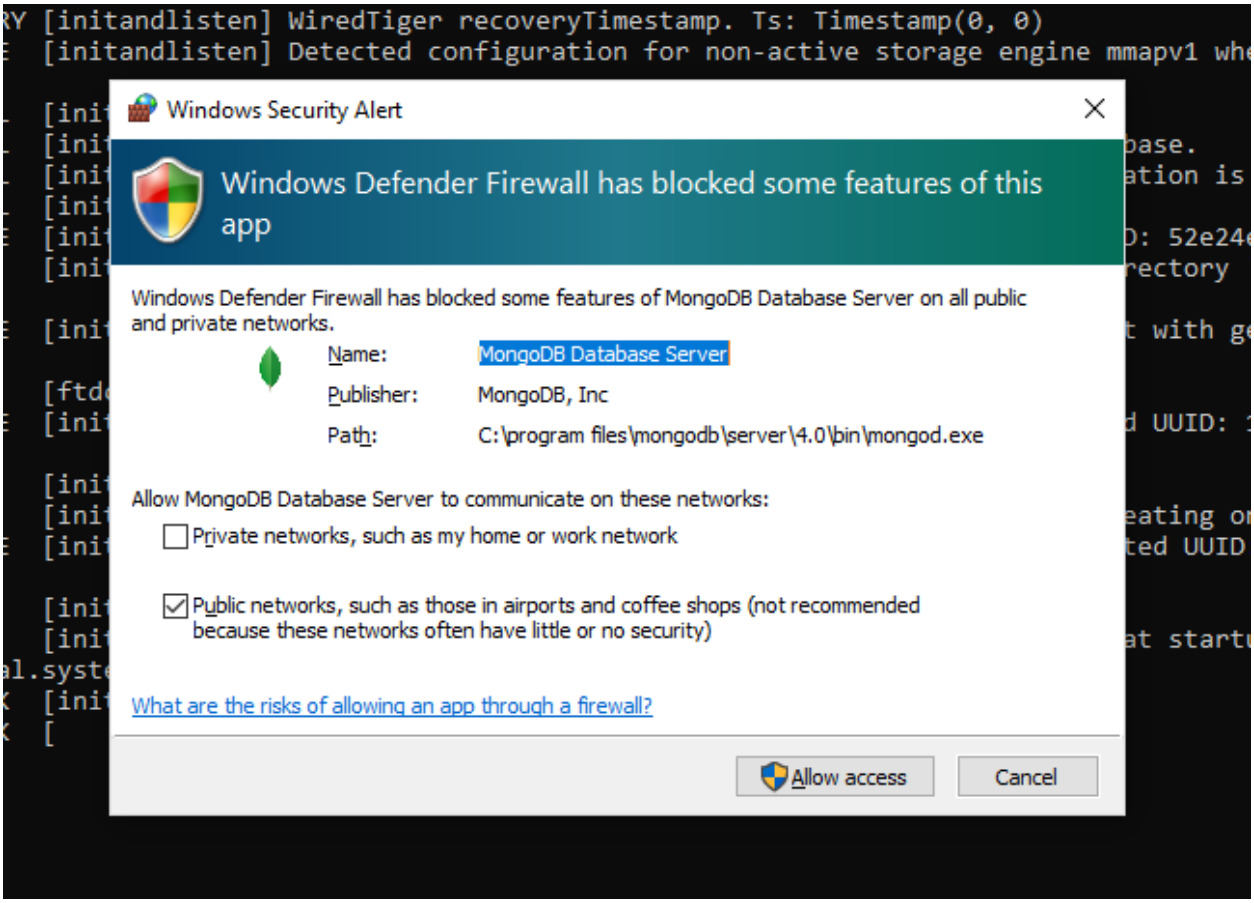
1. Pertama

```
> replicaSet = new ReplSetTest({"nodes" : 3})
Starting new replica set __unknown_name__
{
        "kDefaultTimeoutMS" : 600000,
        "getReadConcernMajorityOpTimeOrThrow" : function (conn) {
"use strict";

        const majorityOpTime = _getReadConcernMajorityOpTime(conn);
        if (friendlyEqual(majorityOpTime, {ts: Timestamp(0, 0), t: NumberLong(0)})) {
            throw new Error("readConcern majority optime not available");
        }
        return majorityOpTime;
    },
        "nodeList" : function () {
"use strict";

        var list = [];
        for (var i = 0; i < this.ports.length; i++) {
            list.push(this.host + ":" + this.ports[i]);
        }

        return list;
    },
        "getNodeId" : function (node) {
"use strict";

        if (node.toFixed) {
            return parseInt(node);
        }

        for (var i = 0; i < this.nodes.length; i++) {
```

2. Kedua,

```
> replicaSet.startSet()
ReplSetTest starting set
ReplSetTest n is : 0
{
        "useHostName" : true,
        "oplogSize" : 40,
        "keyFile" : undefined,
        "port" : 20000,
        "noprealloc" : "",
        "smallfiles" : "",
        "replSet" : "__unknown_name__",
        "dbpath" : "$set-$node",
        "restart" : undefined,
        "pathOpts" : {
                "node" : 0,
                "set" : "__unknown_name__"
        },
        "setParameter" : {
                "writePeriodicNoops" : false,
                "numInitialSyncAttempts" : 1,
                "numInitialSyncConnectAttempts" : 60
        }
}
ReplSetTest Starting....
Resetting db path '/data/db/__unknown_name__-0'
2019-04-25T11:52:41.194+0700 I -        [js] shell: started program (sh6564):  C:\Program Files\MongoDB\Server\4.0\bin\mongod.exe --oplogSize 40 --port 20000 --
```

3. ketiga,



4. keempat,

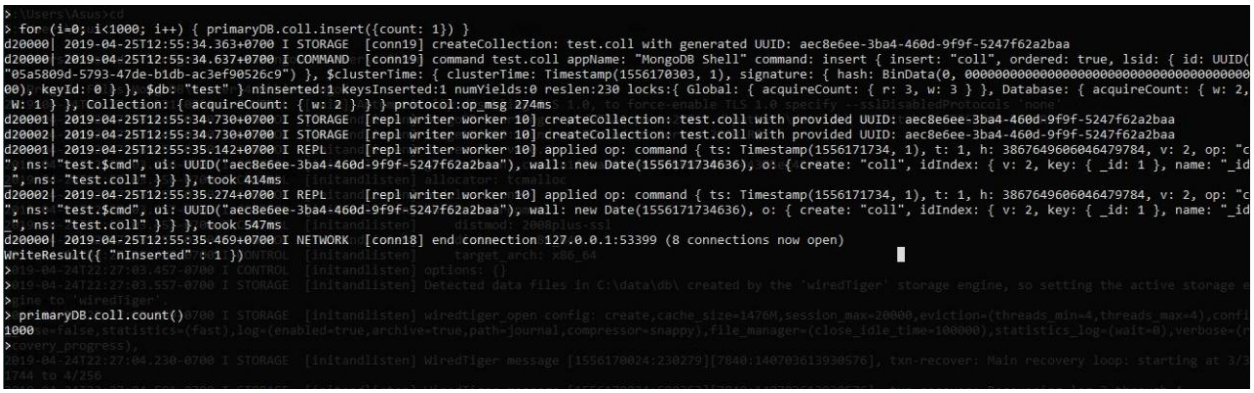
5. Selanjunya,

```
> replicaSet.initiate()
{
        "replSetInitiate" : {
                "_id" : "__unknown_name__",
                "protocolVersion" : 1,
                "members" : [
                        {
                                "_id" : 0,
                                "host" : "Aridha:20000"
                        }
                ]
        }
}
d20000| 2019-04-25T12:02:10.322+0700 I REPL     [conn1] replSetInitiate admin command received from client
d20000| 2019-04-25T12:02:10.340+0700 I REPL     [conn1] replSetInitiate config object with 1 members parses ok
d20000| 2019-04-25T12:02:10.354+0700 I REPL     [conn1] ******
d20000| 2019-04-25T12:02:10.354+0700 I REPL     [conn1] creating replication oplog of size: 40MB...
d20000| 2019-04-25T12:02:10.354+0700 I STORAGE  [conn1] createCollection: local.oplog.rs with generated UUID: 40725cc7-6554-4e5a-9cc0-83d744e96c8d
d20000| 2019-04-25T12:02:10.403+0700 I STORAGE  [conn1] Starting OplogTruncaterThread local.oplog.rs
d20000| 2019-04-25T12:02:10.404+0700 I STORAGE  [conn1] The size storer reports that the oplog contains 0 records totaling to 0 bytes
d20000| 2019-04-25T12:02:10.404+0700 I STORAGE  [conn1] Scanning the oplog to determine where to place markers for truncation
d20000| 2019-04-25T12:02:10.580+0700 I REPL     [conn1] ******
d20000| 2019-04-25T12:02:10.580+0700 I STORAGE  [conn1] createCollection: local.system.replset with generated UUID: 6de3a410-eff1-4afb-9377-37d79c7a09b1
d20000| 2019-04-25T12:02:10.581+0700 I COMMAND  [monitoring keys for HMAC] command admin.system.keys command: find { find: "system.keys", filter: { purpose: "HM
AC", expiresAt: { $gt: Timestamp(0, 0) } }, sort: { expiresAt: 1 }, $readPreference: { mode: "nearest", tags: [] }, $db: "admin" } planSummary: EOF keysExamined
:0 docsExamined:0 cursorExhausted:1 numYields:0 nreturned:0 reslen:231 locks:{ Global: { acquireCount: { r: 2 }, acquireWaitCount: { r: 1 }, timeAcquiringMicros
```

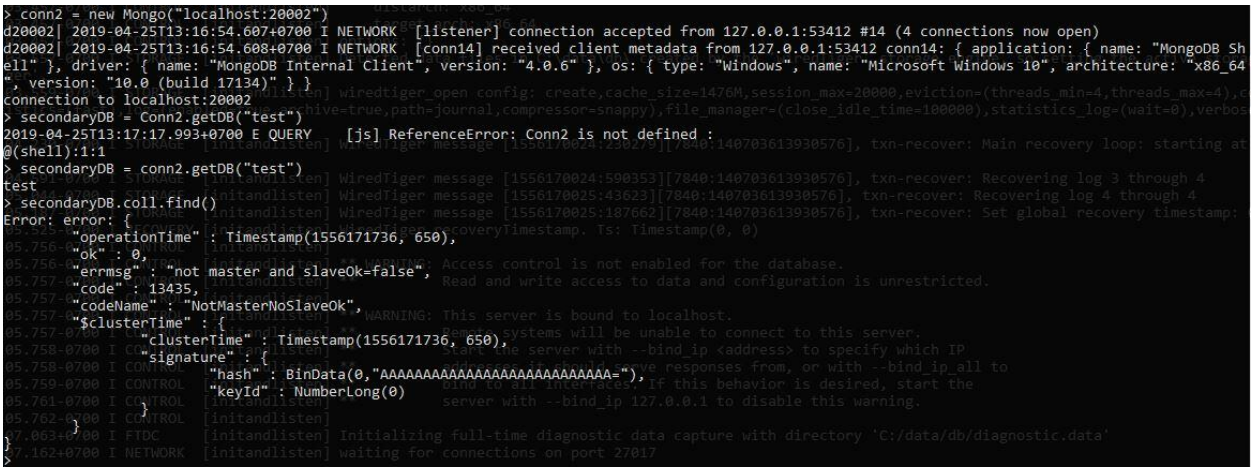
6. Kemudian.

```
> conn1 = new Mongo("localhost:20000")
d20000| 2019-04-25T12:44:11.262+0700 I NETWORK  [listener] connection accepted from 127.0.0.1:53405 #19 (9 connections now open)
d20000| 2019-04-25T12:44:11.262+0700 I NETWORK  [conn19] received client metadata from 127.0.0.1:53405 conn19: { application: { name: "MongoDB Sh
ell" }, driver: { name: "MongoDB Internal Client", version: "4.0.6" }, os: { type: "Windows", name: "Microsoft Windows 10", architecture: "x86_64
", version: "10.0 (build 17134)" } }
connection to localhost:20000
> testReplSet:PRIMARY
2019-04-25T12:44:35.395+0700 E QUERY    [js] ReferenceError: PRIMARY is not defined :
@(shell):1:13
> testReplSet:PRIMARY>
... testReplSet:PRIMARY> primaryDB = conn1.getDB("test")
2019-04-25T12:45:21.712+0700 E QUERY    [js] SyntaxError: missing ; before statement @(shell):2:11
> testReplSet:PRIMARY> testReplSet:PRIMARY> primaryDB = conn1.getDB("test")
2019-04-25T12:45:32.072+0700 E QUERY    [js] SyntaxError: missing ; before statement @(shell):1:32
> testReplSet:PRIMARY> primaryDB = conn1.getDB("test")
2019-04-25T12:46:28.713+0700 E QUERY    [js] ReferenceError: invalid assignment left-hand side @(shell):1:12
> primaryDB = conn1.getDB("test")
test
> primaryDB.isMaster()
{
        "hosts" : [
                "DESKTOP-KPS9R2U:20000",
                "DESKTOP-KPS9R2U:20001",
                "DESKTOP-KPS9R2U:20002"
        ],
        "setName" : "__unknown_name__",
        "setVersion" : 2,
        "ismaster" : true,
        "secondary" : false,
        "primary" : "DESKTOP-KPS9R2U:20000",
        "me" : "DESKTOP-KPS9R2U:20000",
        "electionId" : ObjectId("7fffffff0000000000000001"),
        "lastWrite" : {
                "opTime" : {
                        "ts" : Timestamp(1556170303, 1),
                        "t" : NumberLong(1)
                },
                "lastWriteDate" : ISODate("2019-04-25T05:31:43Z"),
                "majorityOpTime" : {
                        "ts" : Timestamp(1556170303, 1),
                        "t" : NumberLong(1)
                },
                "majorityWriteDate" : ISODate("2019-04-25T05:31:43Z")
```

7. lalu,



8. kedelapan,



9. terakhir, syntax "*find*"