
MANGODB JOBSHEET

BIG DATA



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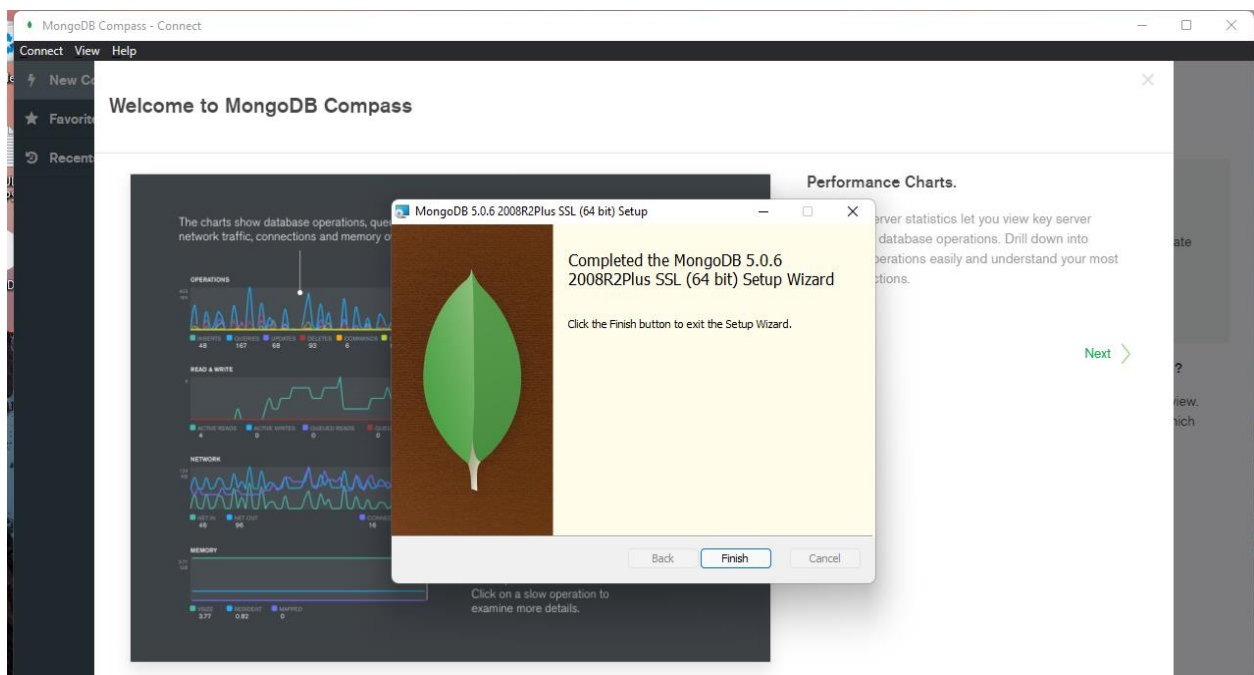
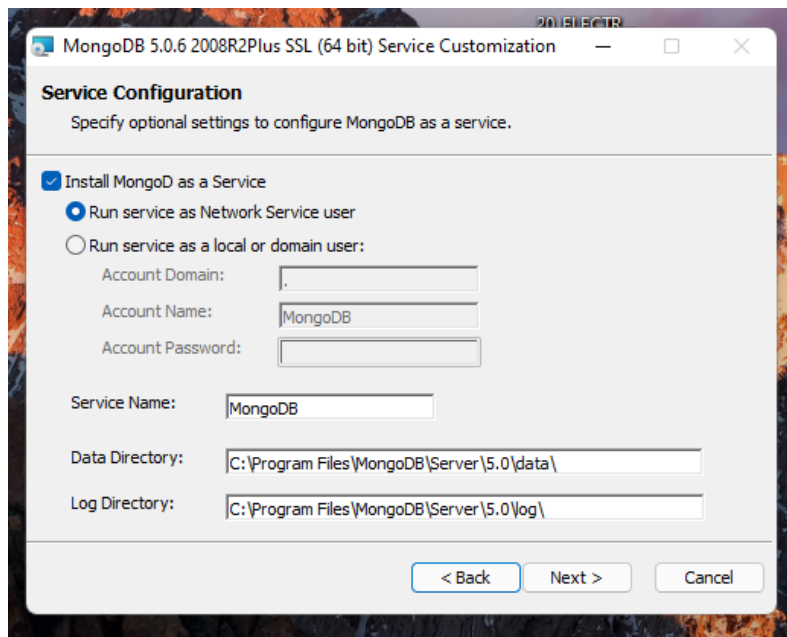
PROGRAM STUDI D-IV TEKNIK INFORMATIKA

JURUSAN TEKNOLOGI INFORMASI

POLITEKNIK NEGERI MALANG



1. Installation MongoDB



2. Instalasi MangoDB Database Tool





3. Running MongoDB via CLI

The screenshot shows a Windows File Explorer window with the path `This PC > Windows (C:) > Program Files > MongoDB > Server > 5.0 > bin`. It lists two files: `InstallCompass` (2 KB) and `mongo` (21.780 KB). Overlaid on this is a terminal window titled `C:\Program Files\MongoDB\Server\5.0\bin\mongo.exe`. The terminal output shows a warning about the deprecated `mongo` shell, followed by a welcome message to the MongoDB shell. It also displays startup warnings from the server, including a message about access control and another about MongoDB's free cloud-based monitoring service.

4. Import Data to MongoDB

`mongoimport --db test --collection emitens < emitens.json`

The screenshot shows a terminal window with the following commands and output:

```
C:\Program Files\MongoDB\Server\5.0\bin>mongoimport --db test --collection emitens < "C:\Users\Rajendra Rakha\Desktop\emitens.json"
2022-03-19T21:27:32.593+0700    connected to: mongodb://localhost/
2022-03-19T21:27:33.036+0700    740 document(s) imported successfully. 0 document(s) failed to import.

C:\Program Files\MongoDB\Server\5.0\bin>mongoimport --username joe --password secret1 mongodb://mongodb0.example.com:27017 --ssl
2022-03-19T21:32:13.491+0700    WARNING: On some systems, a password provided directly using --password may be visible to system status programs such as 'ps' that may be invoked by other users. Consider omitting the password to provide it via stdin, or using the --config option to specify a configuration file with the password.
2022-03-19T21:32:13.492+0700    no collection specified
2022-03-19T21:32:13.493+0700    using filename '' as collection
2022-03-19T21:32:13.495+0700    error validating settings: invalid collection name: collection name cannot be an empty string

C:\Program Files\MongoDB\Server\5.0\bin>
```



5. Show Databases

```
---
> show databases
admin    0.000GB
config  0.000GB
local    0.000GB
test     0.000GB
> use test
switched to db test
> show collections emitens
emitens
> db.emitens.count()
740
> db.emitens.findOne()
{
  "_id" : ObjectId("6113a2ad272b606c42b0daf0"),
  "index" : 1,
  "No" : 2,
  "Kode" : "ABBA",
  "Nama" : "Mahaka Media Tbk.",
  "Pencatatan" : "3-Apr-02",
  "Saham" : "2.755.125.000",
  "Papan" : "Pengembangan"
}
```

6. Show All Databases

```
> db.emitens.find().pretty()
{
  "_id" : ObjectId("6113a2ad272b606c42b0daf0"),
  "index" : 1,
  "No" : 2,
  "Kode" : "ABBA",
  "Nama" : "Mahaka Media Tbk.",
  "Pencatatan" : "3-Apr-02",
  "Saham" : "2.755.125.000",
  "Papan" : "Pengembangan"
}
{
  "_id" : ObjectId("6113a2ad272b606c42b0daef"),
  "index" : 0,
  "No" : 1,
  "Kode" : "AALI",
  "Nama" : "Astra Agro Lestari Tbk.",
  "Pencatatan" : "09 Des 1997",
  "Saham" : "1.924.688.333",
  "Papan" : "UTAMA"
}
{
  "_id" : ObjectId("6113a2ad272b606c42b0daf2"),
  "index" : 3,
  "No" : 4,
  "Kode" : "ABMM",
  "Nama" : "ABM Investama Tbk.",
  "Pencatatan" : "06 Des 2011",
  "Saham" : "2.753.165.000",
  "Papan" : "Pengembangan"
}
```



7. Search with Specified Filter

```
Command Prompt - mongo
Type "it" for more
> db.emiten.find({"Papan" : "PENGEMBANGAN"}).pretty()
{
  "_id" : ObjectId("6113a2ad272b606c42b0daf5"),
  "index" : 6,
  "No" : 7,
  "Kode" : "ADES",
  "Nama" : "Akasha Wira International Tbk.",
  "Pencatatan" : "13-Jun-94",
  "Saham" : "589.896.800",
  "Papan" : "PENGEMBANGAN"
}
{
  "_id" : ObjectId("6113a2ad272b606c42b0dafa"),
  "index" : 11,
  "No" : 12,
  "Kode" : "AGAR",
  "Nama" : "Asia Sejahtera Mina Tbk.",
  "Pencatatan" : "02 Des 2019",
  "Saham" : "1.000.000.000",
  "Papan" : "PENGEMBANGAN"
}
{
  "_id" : ObjectId("6113a2ad272b606c42b0dafa"),
  "index" : 15,
  "No" : 16,
  "Kode" : "AHAP",
  "Nama" : "Asuransi Harta Aman Pratama Tb",
  "Pencatatan" : "14-Sep-90",
  "Saham" : "2.940.000.000",
  "Papan" : "PENGEMBANGAN"
}
```

8. Create New Database & Insert Data

```
Command Prompt - mongo
config 0.000GB
local 0.000GB
test 0.000GB
> use databaseBaru
switched to db databaseBaru
> db.peserta.insert([{"nama":"Rajendra","usia":19,"gender":"pria"}, {"nama":"vivi","usia":20,"gender":"Wanita"}])
BulkWriteResult({
  "writeErrors" : [ ],
  "writeConcernErrors" : [ ],
  "nInserted" : 2,
  "nUpserted" : 0,
  "nMatched" : 0,
  "nModified" : 0,
  "nRemoved" : 0,
  "upserted" : [ ]
})
> db.peserta.find().pretty()
{
  "_id" : ObjectId("6235ed90cc3b25bd3b4c91a1"),
  "nama" : "Rajendra",
  "usia" : 19,
  "gender" : "pria"
}
{
  "_id" : ObjectId("6235ed90cc3b25bd3b4c91a2"),
  "nama" : "vivi",
  "usia" : 20,
  "gender" : "Wanita"
}
```



9. Update Database & Find

```
> db.peserta.update({"nama":"Rajendra"},{$set: {"usia":20}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.peserta.find({"nama":"Rajendra"}).pretty()
{
  "_id" : ObjectId("6235ed90cc3b25bd3b4c91a1"),
  "nama" : "Rajendra",
  "usia" : 20,
  "gender" : "pria"
}
```

10.Delete

```
> db.peserta.update({"nama":"Rajendra"},{$set: {"usia":20}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.peserta.find({"nama":"Rajendra"}).pretty()
{
  "_id" : ObjectId("6235ed90cc3b25bd3b4c91a1"),
  "nama" : "Rajendra",
  "usia" : 20,
  "gender" : "pria"
}
> db.peserta.remove({"nama": "vivi"})
WriteResult({ "nRemoved" : 1 })
> db.peserta.find().pretty()
{
  "_id" : ObjectId("6235ed90cc3b25bd3b4c91a1"),
  "nama" : "Rajendra",
  "usia" : 20,
  "gender" : "pria"
}
```

11.Delete Collection

```
> db.createCollection("mantan")
{ "ok" : 1 }
> show collection
uncaught exception: Error: don't know how to show [collection] :
shellHelper.show@src/mongo/shell/utils.js:1211:11
shellHelper@src/mongo/shell/utils.js:838:15
@(shellhelp2):1:1
> show collections
mantan
peserta
> db.mantan.drop()
true
> show collections
peserta
>
```

12.Drop Database

```
> db.dropDatabase()
{ "ok" : 1 }
> show databases
admin    0.000GB
config  0.000GB
local   0.000GB
test    0.000GB
>
```