

Nama : Asyrof Hafizh Maulana

BACKUP/RESTORE

1. Gunakan tools URBACKUP (<https://www.urbbackup.org/>) untuk melakukan Full Backup

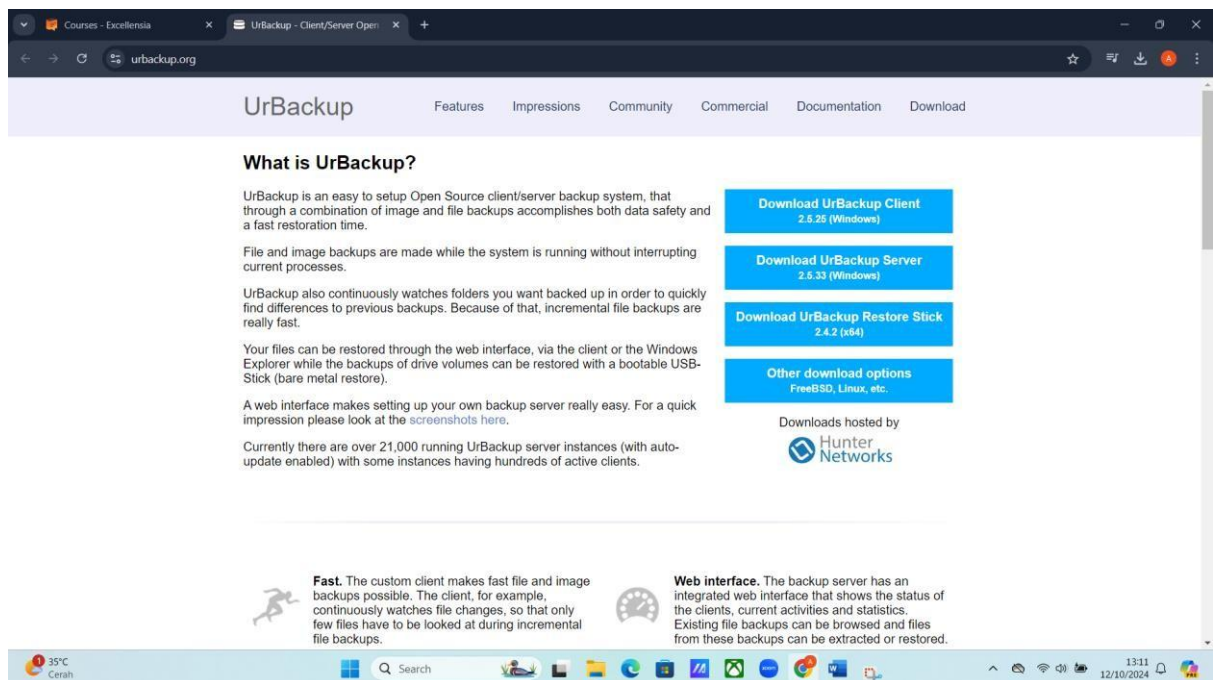
dan Incremental Backup

- Pada salah satu Folder misal Documents atau Folder lainnya di PC/Komputer Anda. Tunjukkan dengan screenshot jika Anda berhasil menggunakan tools tersebut dalam beberapa hari (Daily Backup).
- Pada salah satu layanan Database yang sebelumnya anda siapkan/pasang/install (misal PostgreSQL/MySQL/MariaDB/MSSQL atau ORACLE DB. Tunjukkan berupa hasil/screenshot jika anda berhasil melakukan Backup Tersebut.
- Semisal anda melakukan kesalahan seperti menghapus database atau files pada **a)** dan **b)** Bagaimana langkah proses Restore/Recovery pada Folder atau Layanan Database. Tunjukkan step by step dan hasilnya berupa screenshot.

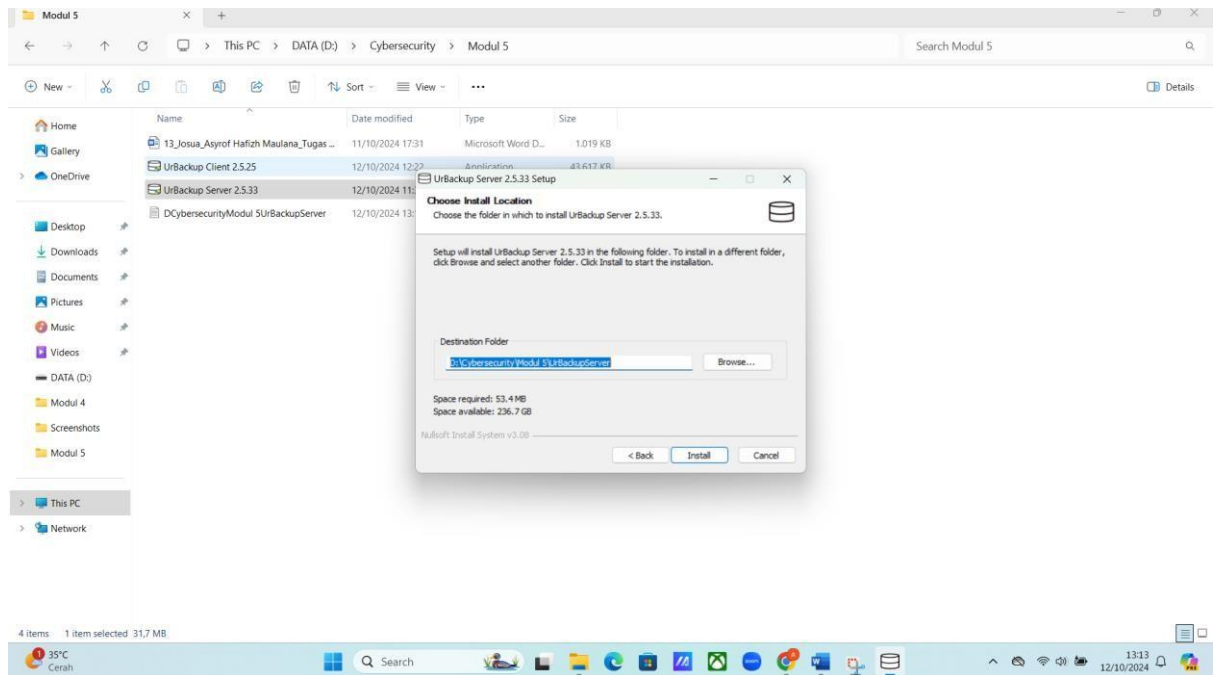
Jawab :

A :

- Langkah pertama adalah install urbackup server dan client :



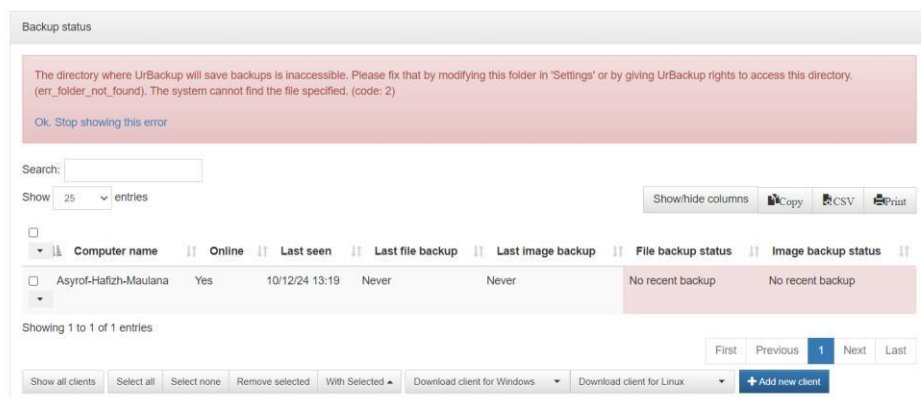
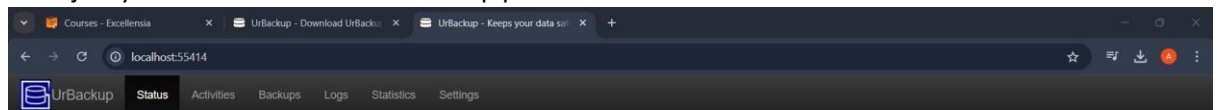
- Installing urbackup server :



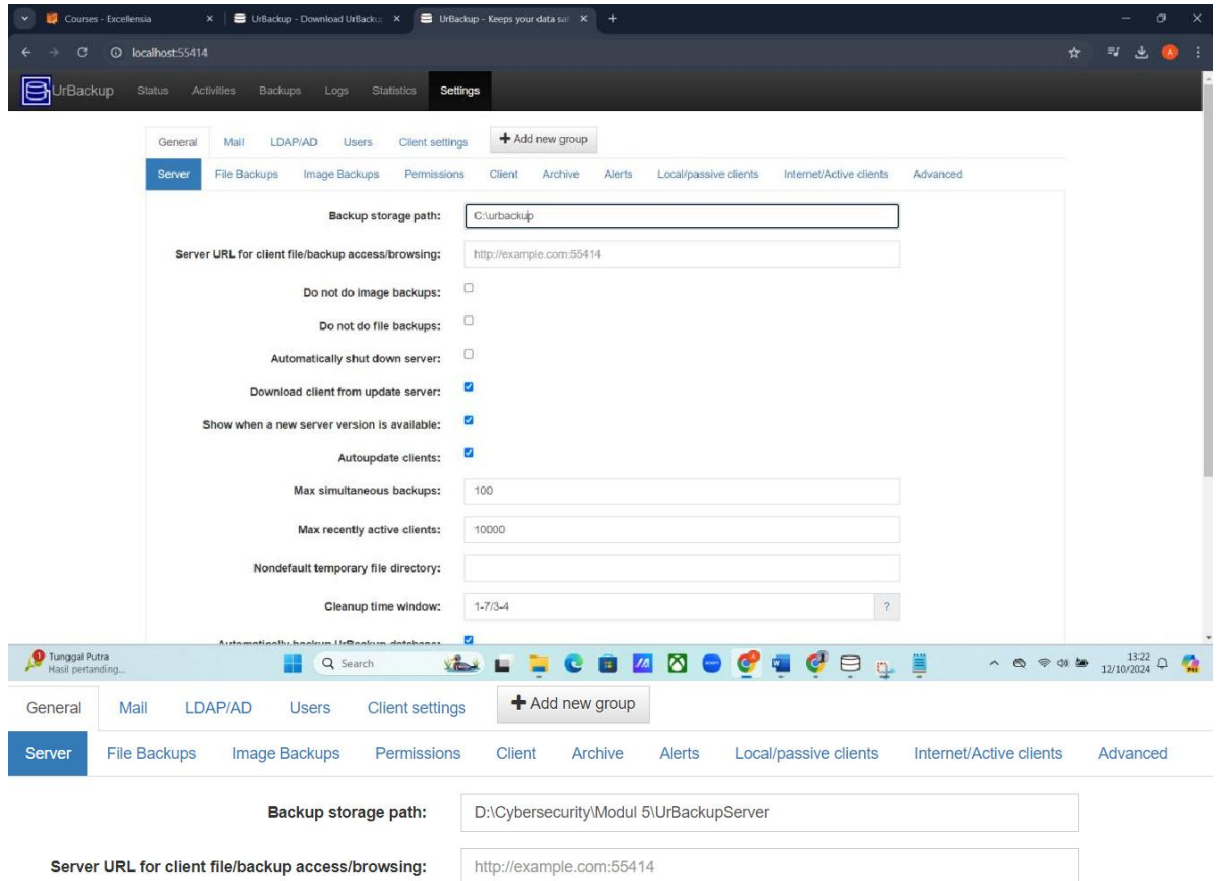
- Jika sudah terinstall akan muncul folder urbackup_server pada pemilihan penyimpanan yang kita pakai :

Name	Date modified	Type	Size
UrBackupServer	12/10/2024 13:14	File folder	

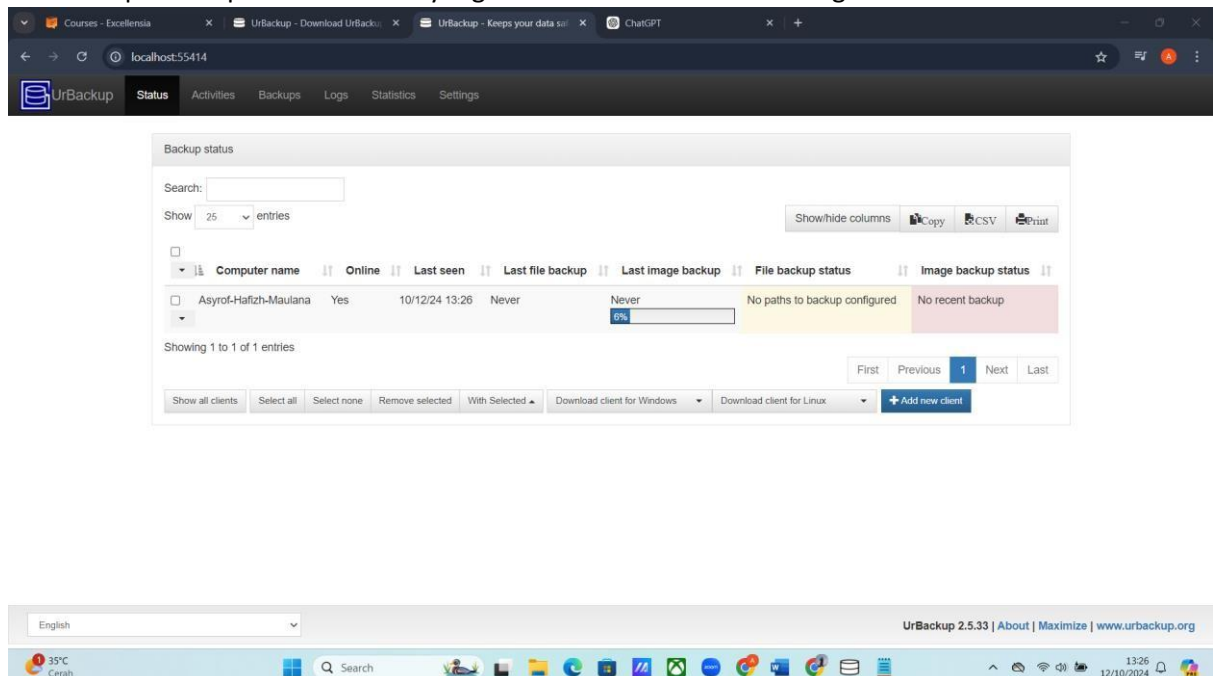
- Selanjutnya masuk ke localhost urbackup pada chrome :



- Masuk ke setting lalu atur Dimana membuat folder urbackupnya :



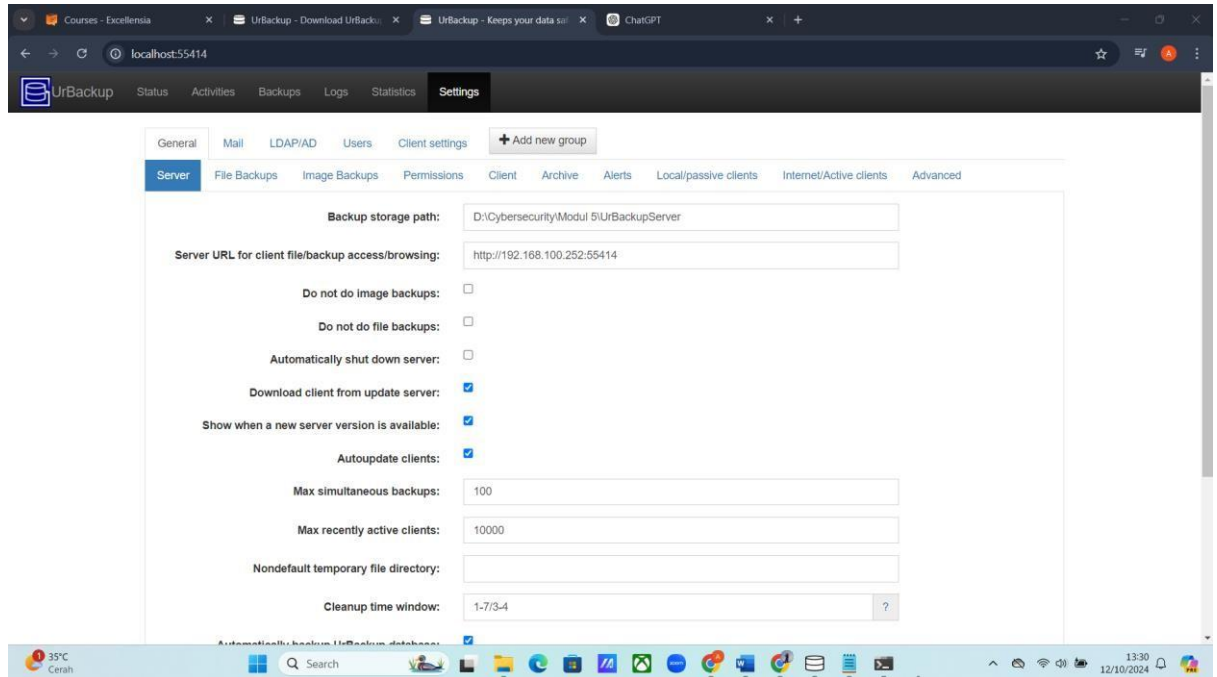
- Setelah diperbaiki pesan kesalahan yang berwarna merah sudah hilang :



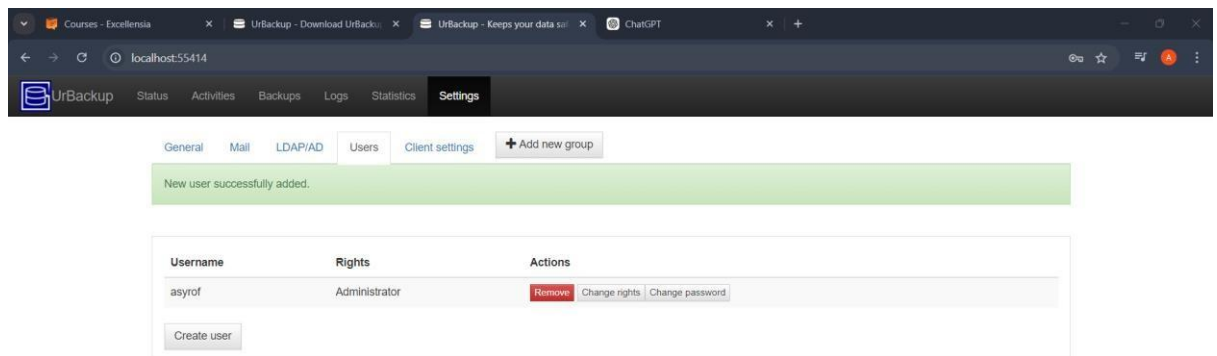
- Cek IP perangkat :

IPv4 Address : 192.168.100.252

- Masuk lagi pada settingan localhost urbackup dan atur IP nya :



- Membuat users :



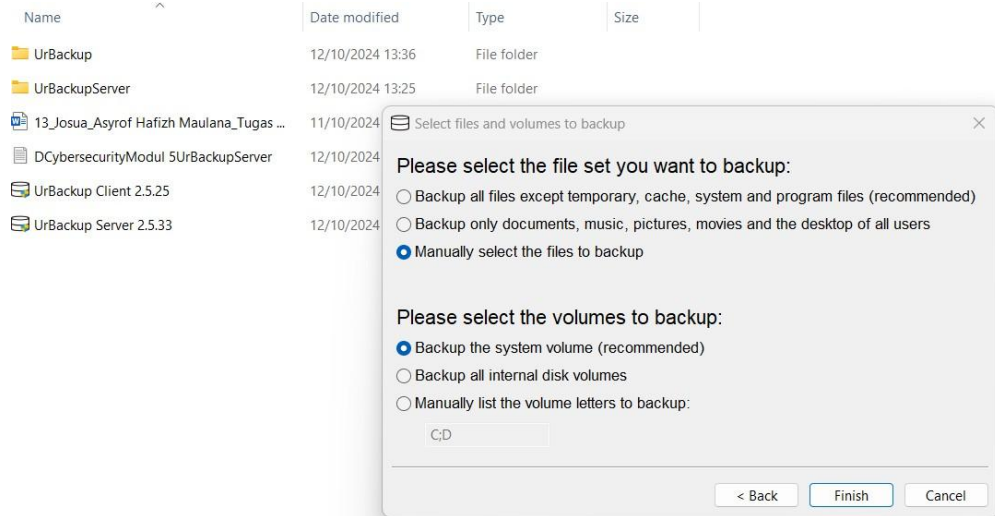
- Setelah itu install urbackup client, jika sudah akan tampil folder pada penyimpanan yang kita pilih :

UrBackup

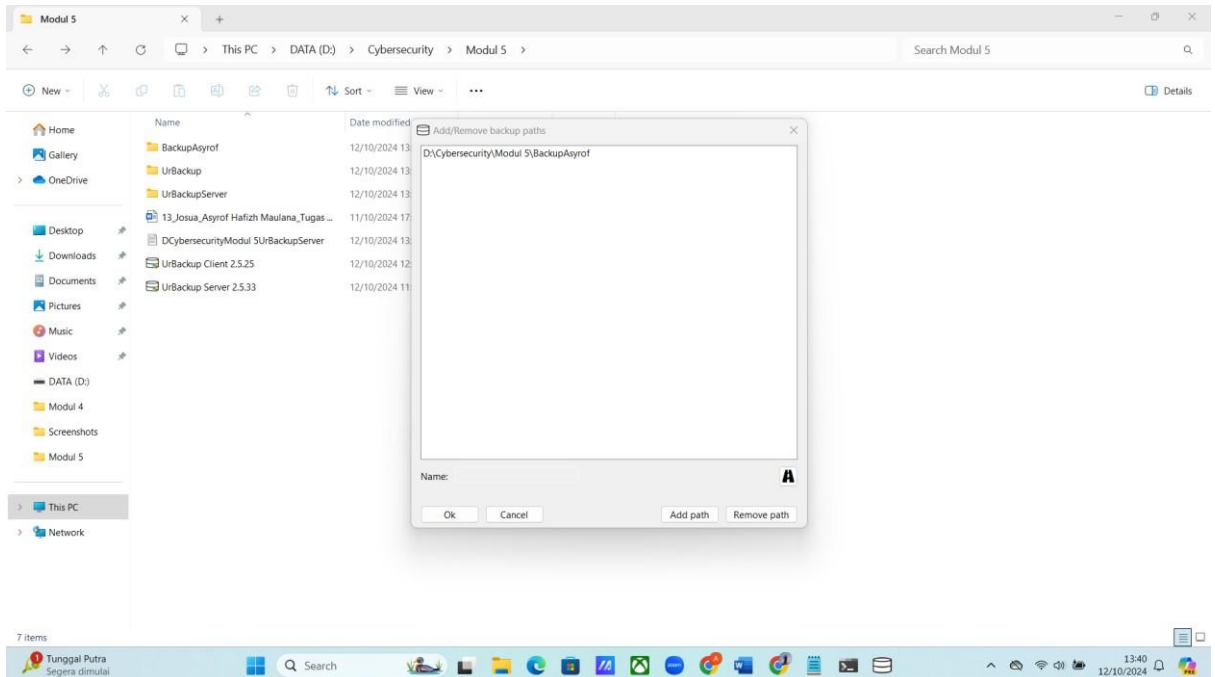
12/10/2024 13:17

File folder

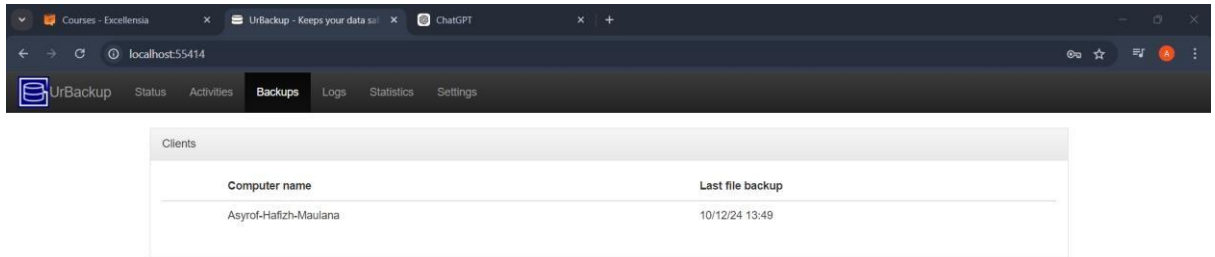
- Setelah itu pilih opsi file dan volume untuk backup :



- Setelah itu pilih folder mana yang harus di backup :

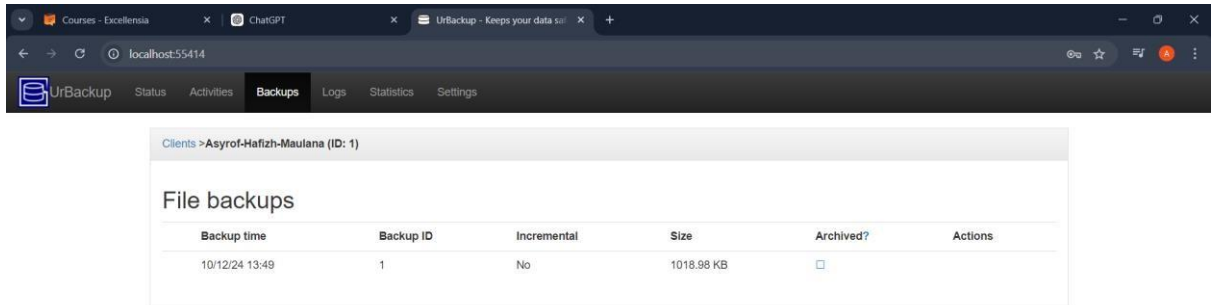


➤ Jika file sudah terbackup akan muncul seperti ini :

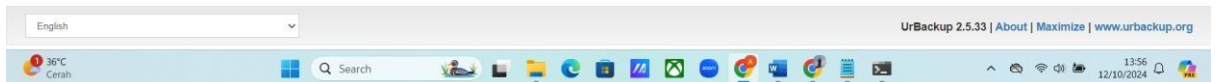


Clients	
Computer name	Last file backup
Asyrof-Hafizh-Maulana	10/12/24 13:49

➤ Data file yang di backup :



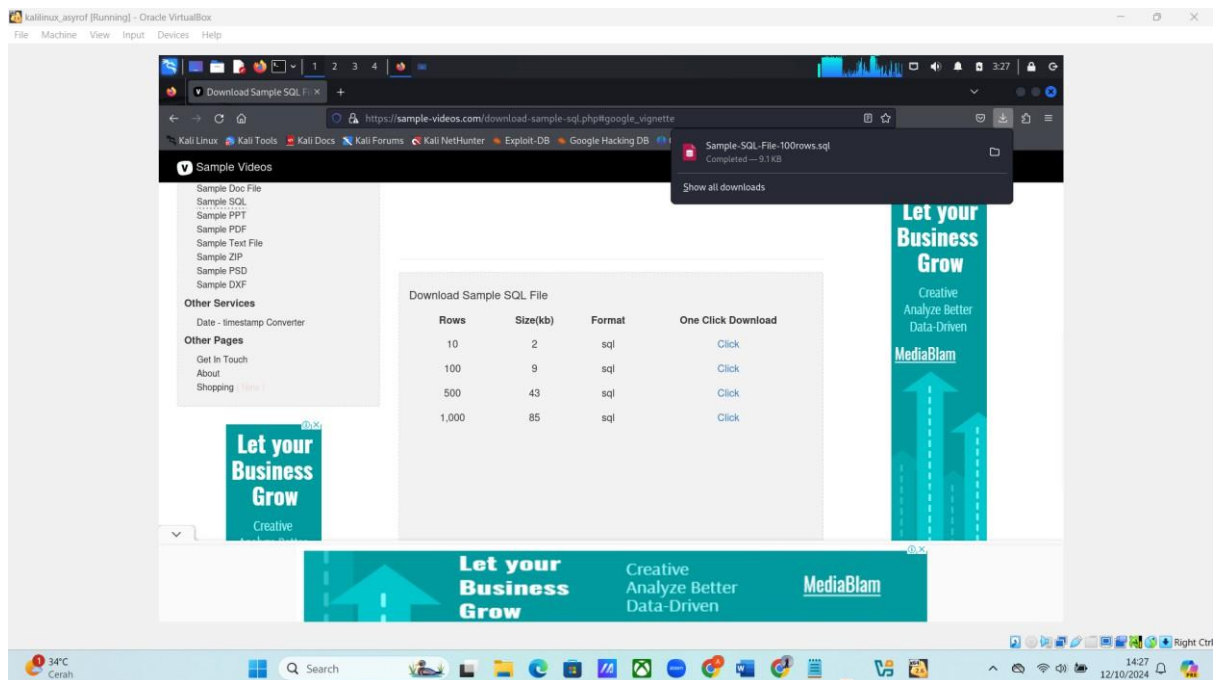
Clients > Asyrof-Hafizh-Maulana (ID: 1)					
File backups					
Backup time	Backup ID	Incremental	Size	Archived?	Actions
10/12/24 13:49	1	No	1018.98 KB	<input type="checkbox"/>	



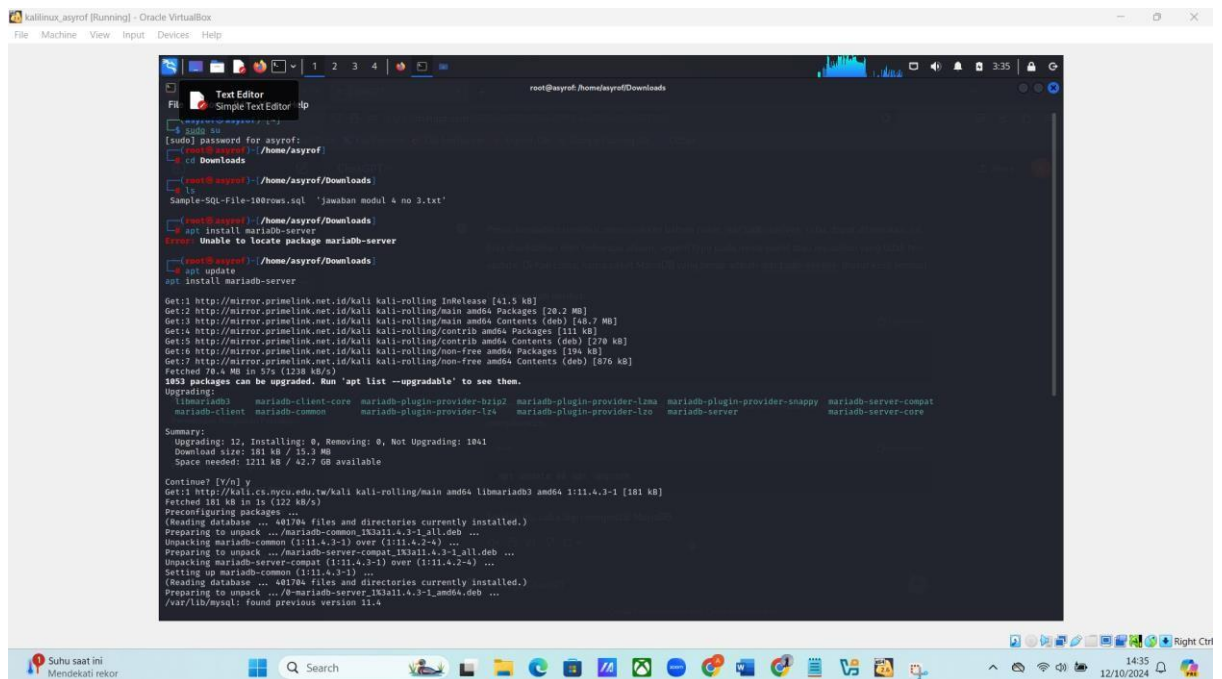
English	UrBackup 2.5.33 About Maximize www.urbackup.org
36°C Cerah	13:56 12/10/2024

B :

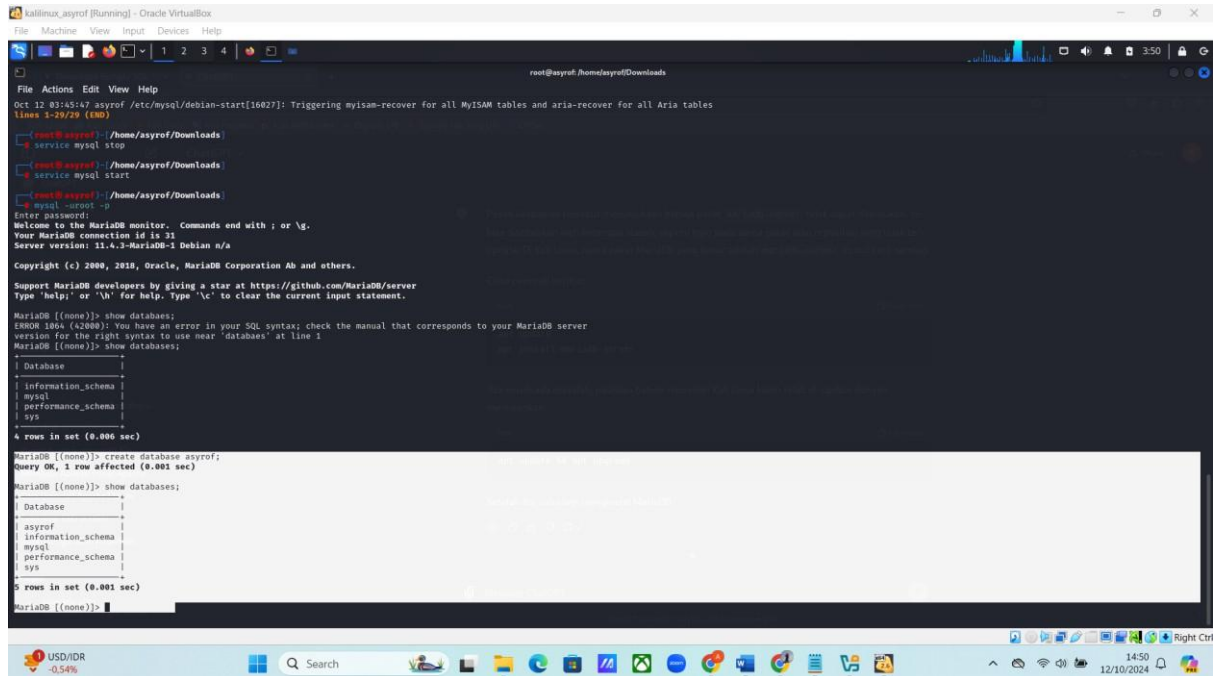
- Menggunakan kali linux untuk install maria DB, pertama download samplesql :



- Install mariaDb-server :



➤ Membuat database :



```
Oct 12 03:45:47 asyrof /etc/mysql/debian-start[16027]: Triggering mysiam-recover for all MyISAM tables and aria-recover for all Aria tables
Lines 1-29/29 (END)

root@asyrof:~/home/asyrof/Downloads# service mysql stop
root@asyrof:~/home/asyrof/Downloads# service mysql start
root@asyrof:~/home/asyrof/Downloads# mysql -uroot -p
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 31
Server version: 11.4.3-MariaDB-1 Debian n/a

Copyright (c) 2000, 2019, Oracle, MariaDB Corporation Ab and others.

Support MariaDB developers by giving a star at https://github.com/MariaDB/server
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
4 rows in set (0.006 sec)

MariaDB [(none)]> create database asyrof;
Query OK, 1 row affected (0.001 sec)

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| asyrof |
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
5 rows in set (0.001 sec)

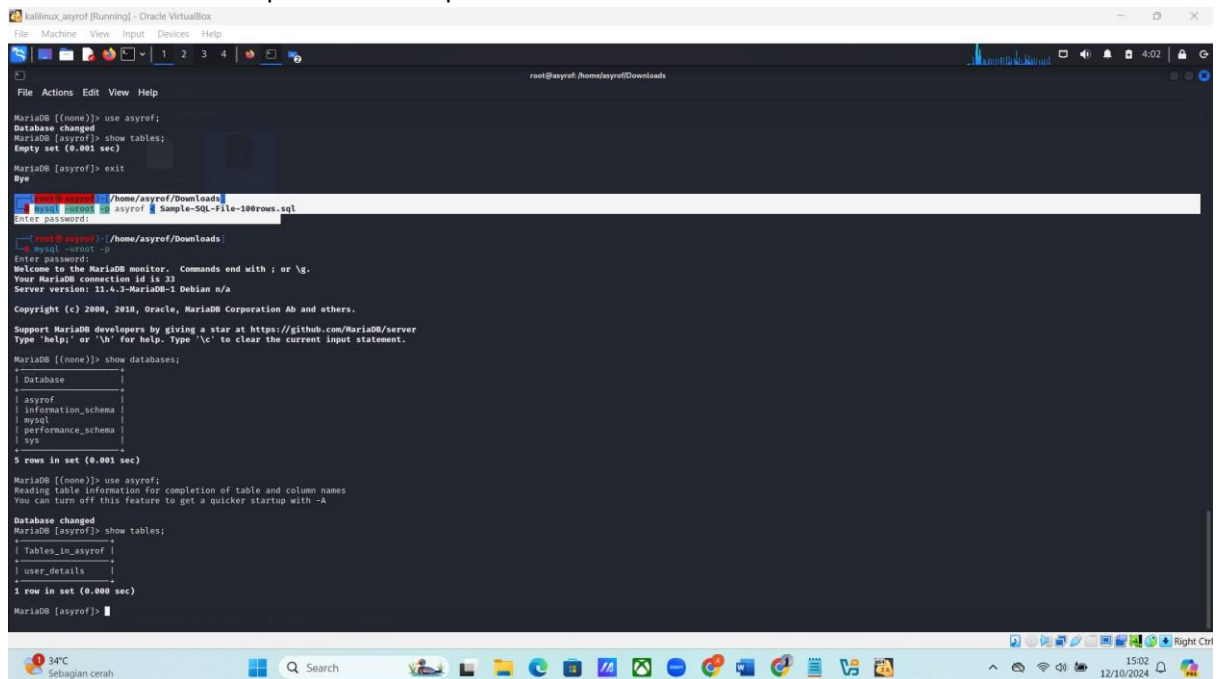
MariaDB [(none)]>
```

➤ Table database asyrof masih kosong :

```
MariaDB [(none)]> use asyrof;
Database changed
MariaDB [asyrof]> show tables;
Empty set (0.001 sec)

MariaDB [asyrof]>
```

➤ Setelah itu masukkan perintah backup :



```
root@asyrof:~/home/asyrof/Downloads# mysql -uroot -p
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 33
Server version: 11.4.3-MariaDB-1 Debian n/a

Copyright (c) 2000, 2019, Oracle, MariaDB Corporation Ab and others.

Support MariaDB developers by giving a star at https://github.com/MariaDB/server
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| asyrof |
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
5 rows in set (0.001 sec)

MariaDB [(none)]> use asyrof;
Database changed
MariaDB [asyrof]> show tables;
Empty set (0.001 sec)

MariaDB [asyrof]> exit
Bye

root@asyrof:~/home/asyrof/Downloads# mysqldump -u root -p asyrof > Sample-SQL-File-100rows.sql
Enter password:

root@asyrof:~/home/asyrof/Downloads# mysql -uroot -p
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 33
Server version: 11.4.3-MariaDB-1 Debian n/a

Copyright (c) 2000, 2019, Oracle, MariaDB Corporation Ab and others.

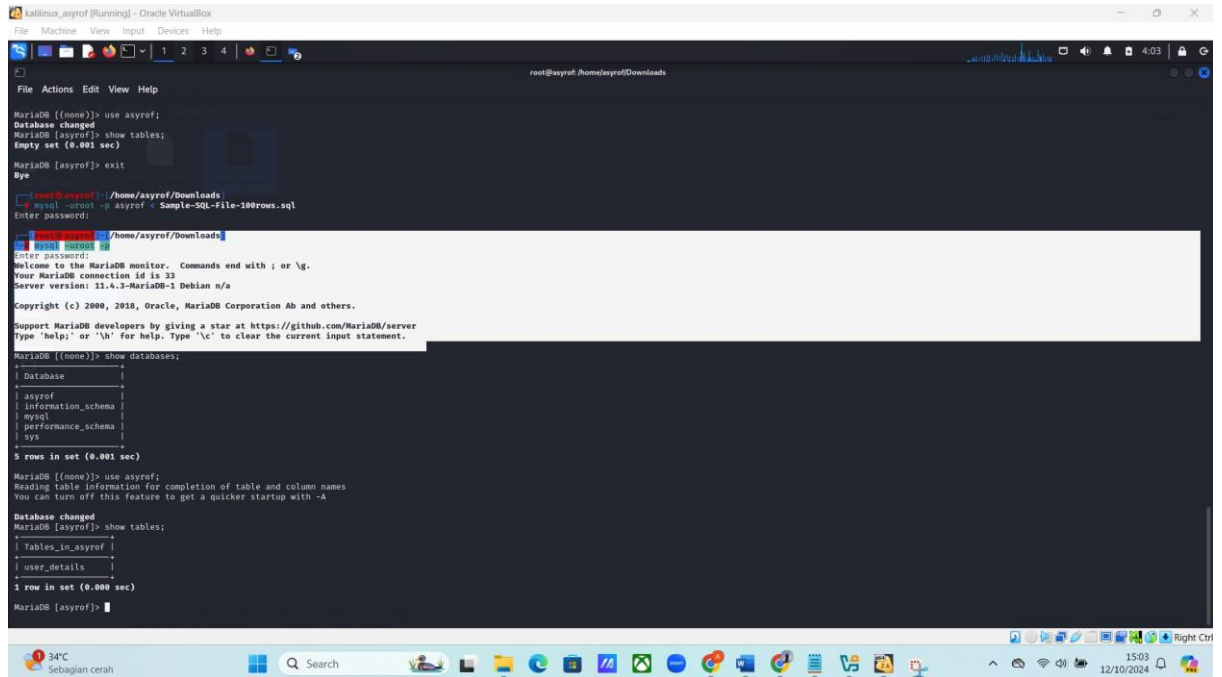
Support MariaDB developers by giving a star at https://github.com/MariaDB/server
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| asyrof |
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
5 rows in set (0.001 sec)

MariaDB [(none)]> use asyrof;
Database changed
MariaDB [asyrof]> show tables;
+-----+
| Tables_in_asyrof |
+-----+
| user_details |
+-----+
1 row in set (0.000 sec)

MariaDB [asyrof]>
```


- Masuk lagi ke halaman awal :



```
kalinux_asyraf [running] - Oracle VirtualBox
File Machine View Input Devices Help

root@asyraf:/home/asyraf/Downloads

MariaDB [(none)]> use asyraf;
Database changed
MariaDB [asyraf]> show tables;
Empty set (0.001 sec)

MariaDB [asyraf]> exit
Bye

root@asyraf:/home/asyraf/Downloads
# mysql -uroot -p asyraf - Sample-SQL-File-100rows.sql
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 33
Server version: 11.4.3-MariaDB-1 Debian n/a
Copyright (c) 2000, 2010, Oracle, MariaDB Corporation Ab and others.
Support MariaDB developers by giving a star at https://github.com/MariaDB/server
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

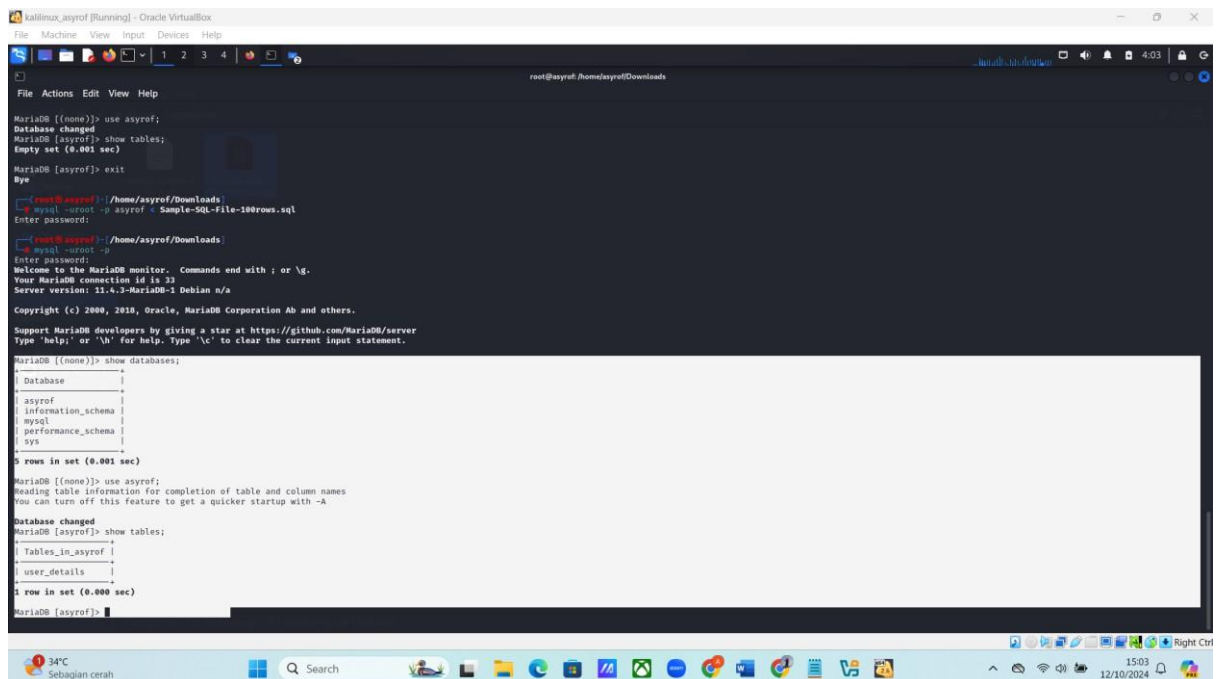
MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| asyraf   |
| information_schema |
| mysql   |
| performance_schema |
| sys     |
+-----+
5 rows in set (0.001 sec)

MariaDB [(none)]> use asyraf;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
MariaDB [asyraf]> show tables;
+-----+
| Tables_in_asyraf |
+-----+
| user_details     |
+-----+
1 row in set (0.000 sec)

MariaDB [asyraf]>
```

- Lihat database yang kita buat lalu gunakan database nya,lalu tampilkan table maka backup akan berhasil :



```
kalinux_asyraf [running] - Oracle VirtualBox
File Machine View Input Devices Help

root@asyraf:/home/asyraf/Downloads

MariaDB [(none)]> use asyraf;
Database changed
MariaDB [asyraf]> show tables;
Empty set (0.001 sec)

MariaDB [asyraf]> exit
Bye

root@asyraf:/home/asyraf/Downloads
# mysql -uroot -p asyraf - Sample-SQL-File-100rows.sql
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 33
Server version: 11.4.3-MariaDB-1 Debian n/a
Copyright (c) 2000, 2010, Oracle, MariaDB Corporation Ab and others.
Support MariaDB developers by giving a star at https://github.com/MariaDB/server
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| asyraf   |
| information_schema |
| mysql   |
| performance_schema |
| sys     |
+-----+
5 rows in set (0.001 sec)

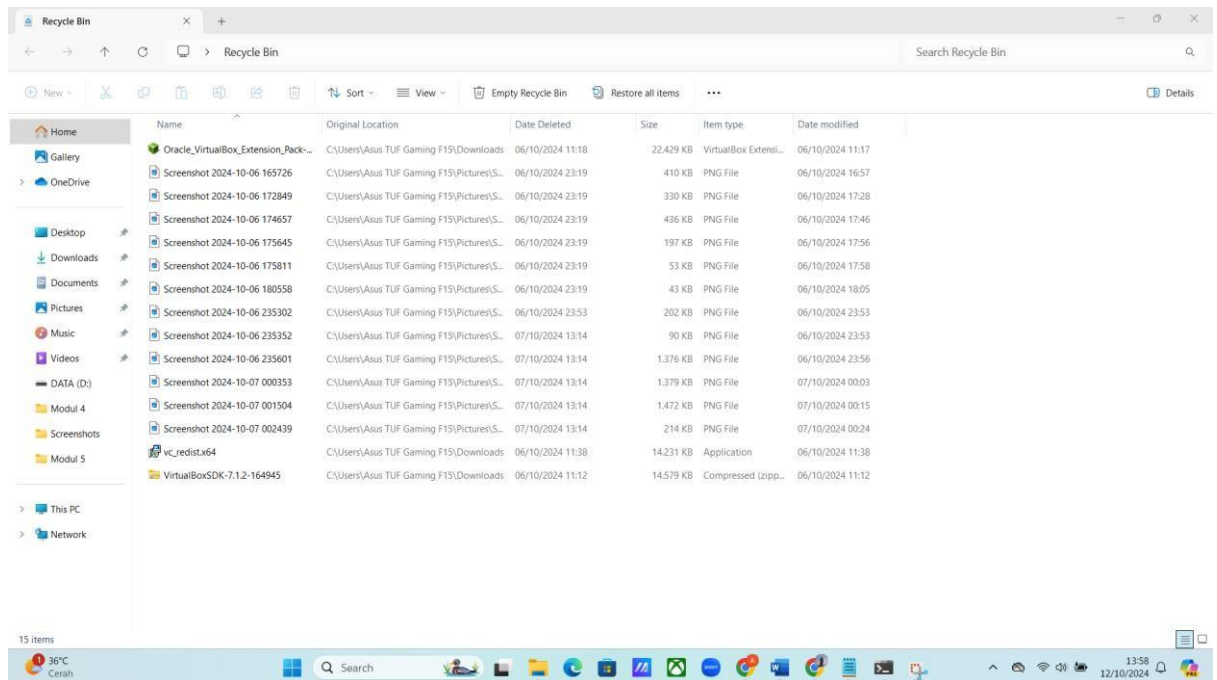
MariaDB [(none)]> use asyraf;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
MariaDB [asyraf]> show tables;
+-----+
| Tables_in_asyraf |
+-----+
| user_details     |
+-----+
1 row in set (0.000 sec)

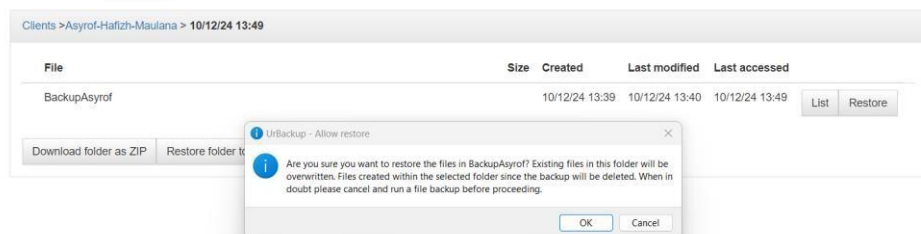
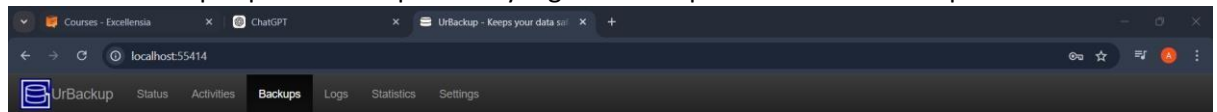
MariaDB [asyraf]>
```

C(A) :

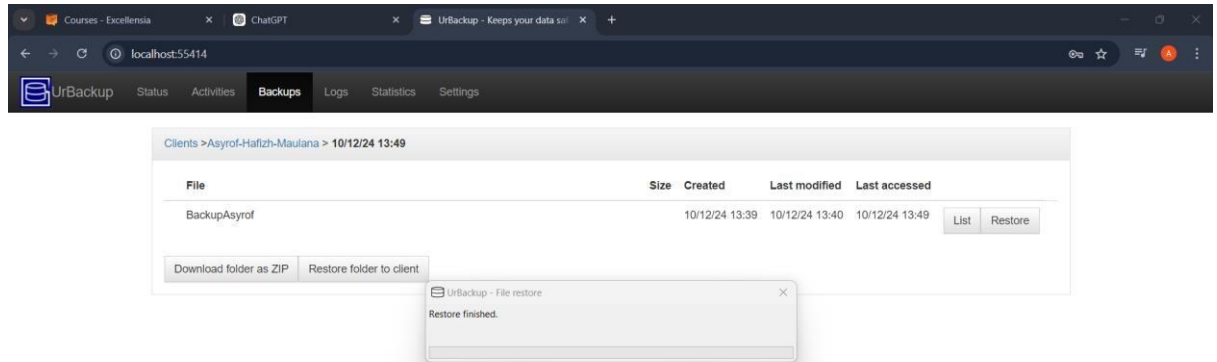
- Jika sudah terbackup, memastikan agar file sudah terbackup atau belum dengan cara hapus file nya dan recycle bin nya :



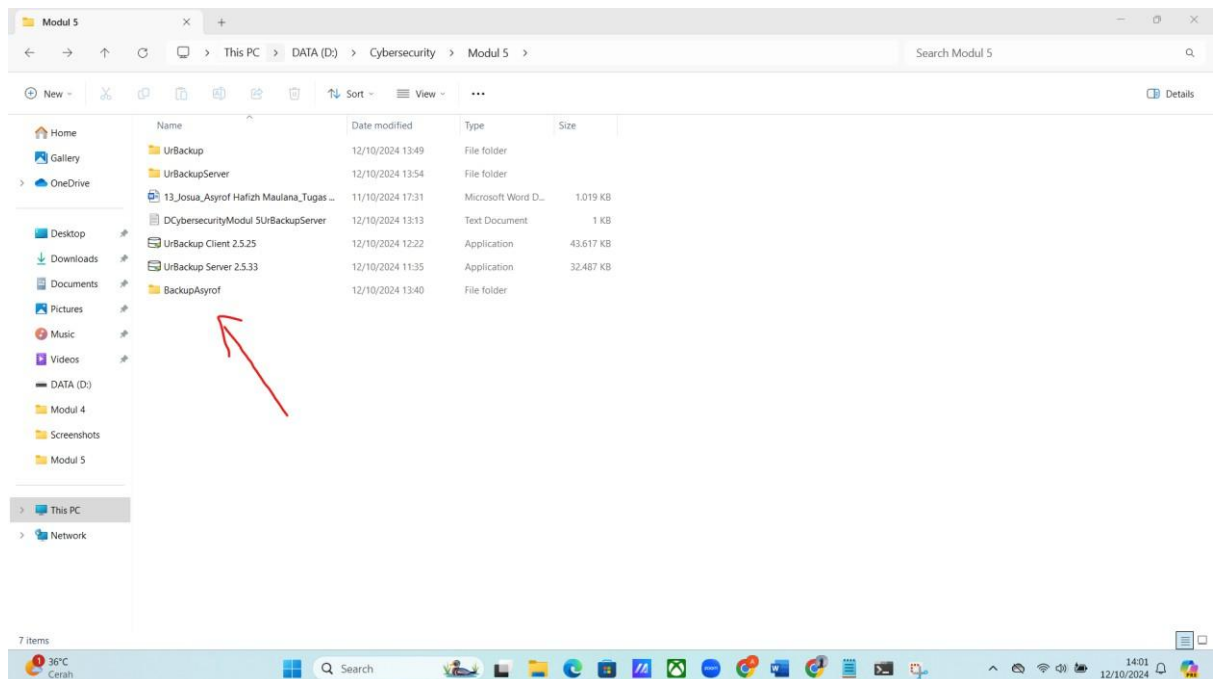
- Jika sudah terhapus pilih restore pada file yang kita backup di localhost urbackup :



- Tampilan jika sudah kita restore :

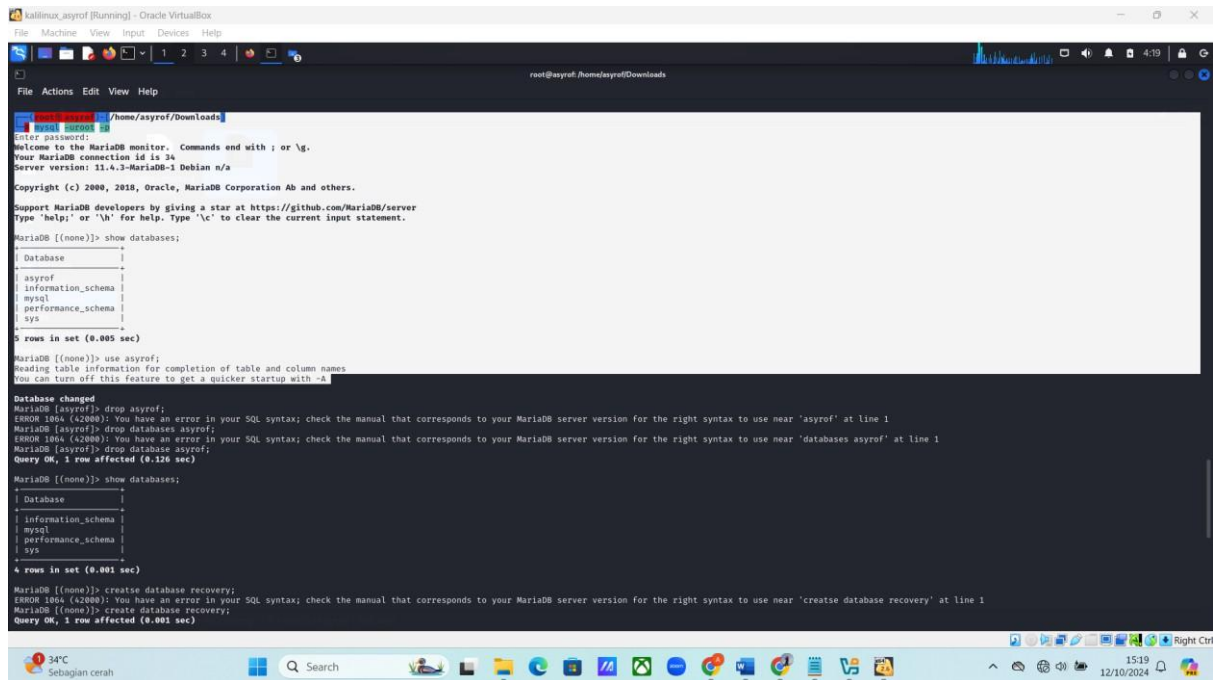


- Masuk ke folder yang kita pilih sebagai tempat kita restore maka file yang kita hapus akan Kembali :



C(B) :

- Masuk ke halaman awal lalu gunakan database kita :



```
kalilinux_asyrof [Running] - Oracle VirtualBox
File Machine View Input Devices Help

root@asyrof:/home/asyrof/Downloads

root@asyrof:/home/asyrof/Downloads# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 34
Server version: 11.4.3-MariaDB-1 Debian n/a

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Support MariaDB developers by giving a star at https://github.com/MariaDB/server
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| asyrof   |
| information_schema |
| mysql    |
| performance_schema |
| sys      |
+-----+
5 rows in set (0.005 sec)

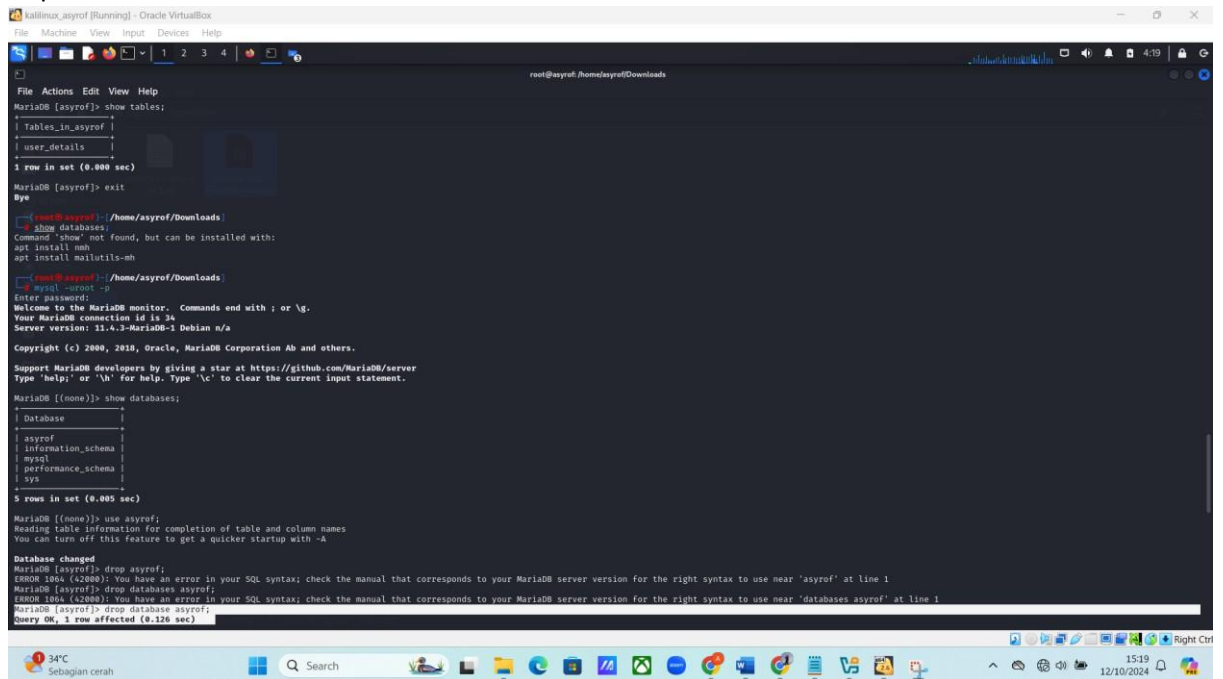
MariaDB [(none)]> use asyrof;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
MariaDB [asyrof]> drop databases asyrof;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'asyrof' at line 1
MariaDB [asyrof]> drop database asyrof;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'databases asyrof' at line 1
MariaDB [asyrof]> drop database asyrof;
Query OK, 1 row affected (0.126 sec)

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql      |
| performance_schema |
| sys        |
+-----+
4 rows in set (0.001 sec)

MariaDB [(none)]> create database recovery;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'create database recovery' at line 1
MariaDB [(none)]> create database recovery;
Query OK, 1 row affected (0.001 sec)
```

- Hapus database kita :



```
kalilinux_asyrof [Running] - Oracle VirtualBox
File Machine View Input Devices Help

root@asyrof:/home/asyrof/Downloads

root@asyrof:/home/asyrof/Downloads# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 34
Server version: 11.4.3-MariaDB-1 Debian n/a

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Support MariaDB developers by giving a star at https://github.com/MariaDB/server
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| asyrof   |
| information_schema |
| mysql    |
| performance_schema |
| sys      |
+-----+
5 rows in set (0.005 sec)

MariaDB [(none)]> use asyrof;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
MariaDB [asyrof]> drop asyrof;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'asyrof' at line 1
MariaDB [asyrof]> drop databases asyrof;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'databases asyrof' at line 1
MariaDB [asyrof]> drop database asyrof;
Query OK, 1 row affected (0.126 sec)
```

- Cek Kembali apakah database kita sudah terhapus :

```
kallinux_asyrof [running] - Oracle VirtualBox
File Machine View Input Devices Help

root@asyrof:/home/asyrof/Downloads
root@asyrof:/home/asyrof/Downloads# show databases;
+-----+
| Database |
+-----+
| asyrof    |
| information_schema |
| mysql     |
| performance_schema |
| sys       |
+-----+
5 rows in set (0.005 sec)

root@asyrof:/home/asyrof/Downloads# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 34
Server version: 11.4.3-MariaDB-1 Debian n/a

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Support MariaDB developers by giving a star at https://github.com/MariaDB/server
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| asyrof    |
| information_schema |
| mysql     |
| performance_schema |
| sys       |
+-----+
5 rows in set (0.005 sec)

MariaDB [(none)]> use asyrof;
Reading table information for completion of table and column names
You can turn off this feature with -A

Database changed
MariaDB [asyrof]> drop asyrof;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'asyrof' at line 1
MariaDB [asyrof]> drop databases asyrof;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'databases asyrof' at line 1
MariaDB [asyrof]> drop database asyrof;
Query OK, 1 row affected (0.126 sec)

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql     |
| performance_schema |
| sys       |
+-----+
4 rows in set (0.001 sec)
```

- Jika sudah terhapus buat database recovery dan lihat Kembali apakah database recovery sudah dibuat,lalu kembali :

```
kallinux_asyrof [running] - Oracle VirtualBox
File Machine View Input Devices Help

root@asyrof:/home/asyrof/Downloads
root@asyrof:/home/asyrof/Downloads# show databases;
+-----+
| Database |
+-----+
| asyrof    |
| information_schema |
| mysql     |
| performance_schema |
| sys       |
+-----+
5 rows in set (0.005 sec)

MariaDB [(none)]> use asyrof;
Reading table information for completion of table and column names
You can turn off this feature with -A

Database changed
MariaDB [asyrof]> drop asyrof;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'asyrof' at line 1
MariaDB [asyrof]> drop databases asyrof;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'databases asyrof' at line 1
MariaDB [asyrof]> drop database asyrof;
Query OK, 1 row affected (0.126 sec)

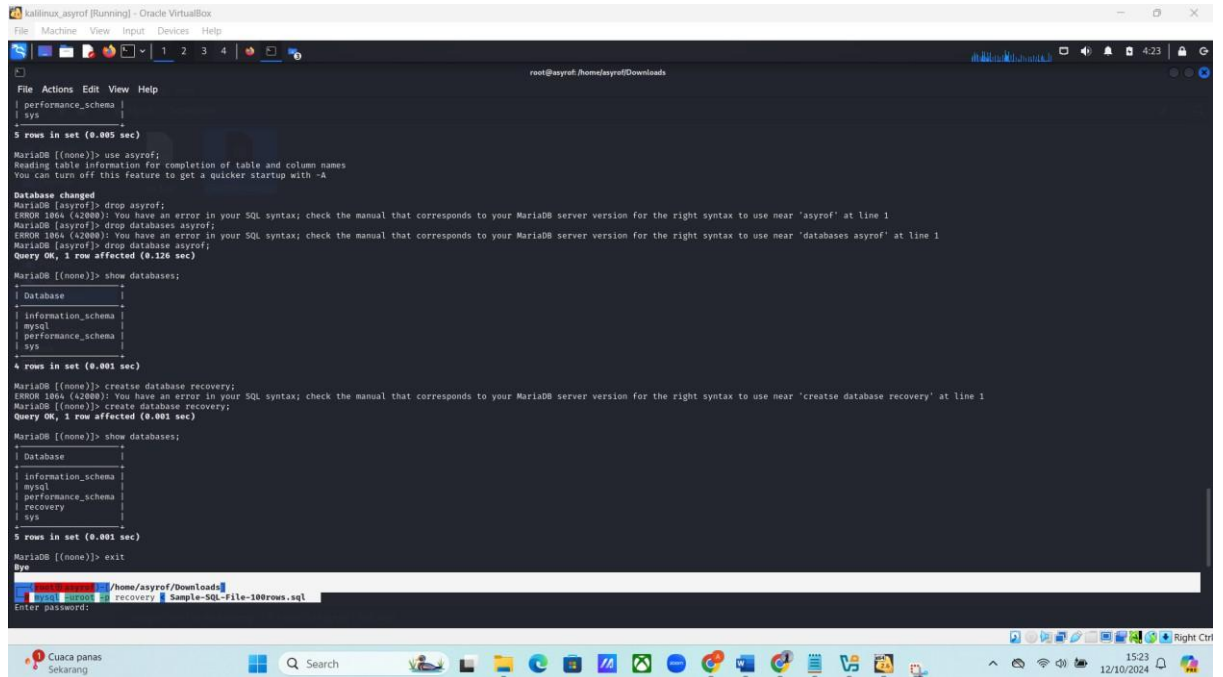
MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql     |
| performance_schema |
| sys       |
+-----+
4 rows in set (0.001 sec)

MariaDB [(none)]> create database recovery;
Query OK, 1 row affected (0.001 sec)

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql     |
| performance_schema |
| recovery   |
| sys       |
+-----+
5 rows in set (0.001 sec)

MariaDB [(none)]> exit
bye
```

- Masukkan perintah untuk recovery :



The screenshot shows a terminal window titled 'kalilinux_asyrof [Running] - Oracle VM VirtualBox'. The user is logged in as 'root' at 'asyrof: /home/asyrof/Downloads'. The terminal shows the following commands and output:

```
File Actions Edit View Help
+-----+
| performance_schema |
| sys                |
+-----+
5 rows in set (0.005 sec)

MariaDB [(none)]> use asyrof;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
MariaDB [asyrof]> drop database asyrof;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'asyrof' at line 1
MariaDB [asyrof]> drop databases asyrof;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'databases asyrof' at line 1
MariaDB [asyrof]> drop database asyrof;
Query OK, 1 row affected (0.126 sec)

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql      |
| performance_schema |
| sys        |
+-----+
4 rows in set (0.001 sec)

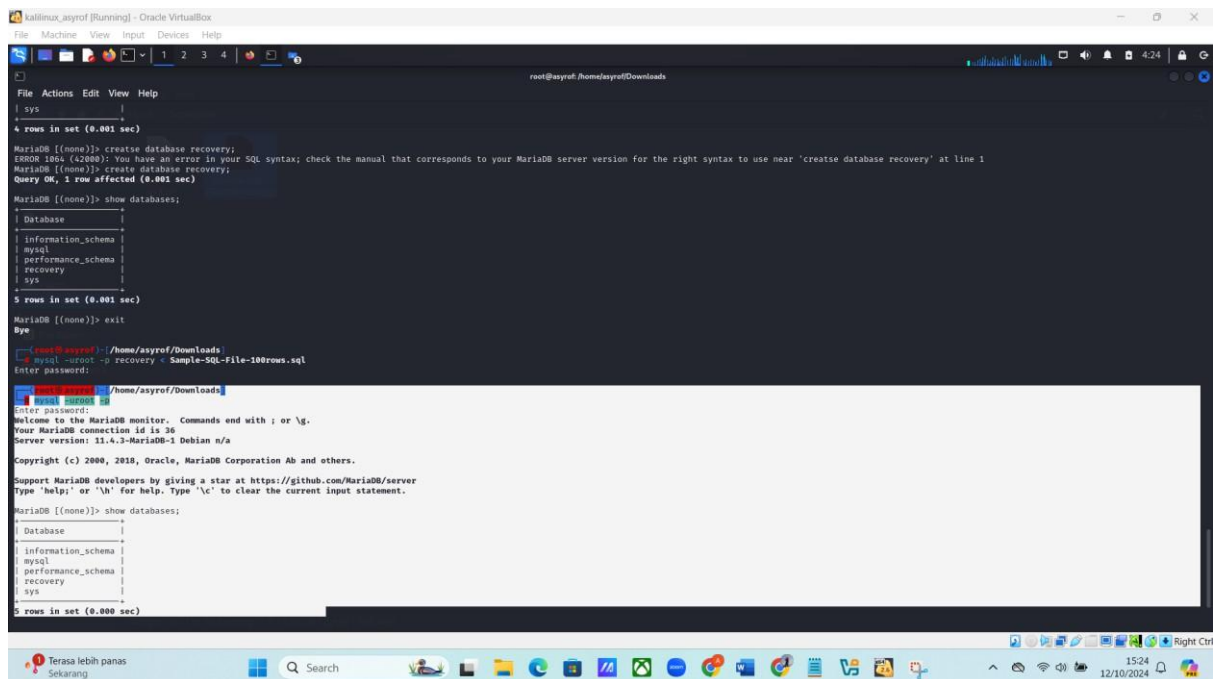
MariaDB [(none)]> create database recovery;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'create database recovery' at line 1
MariaDB [(none)]> create database recovery;
Query OK, 1 row affected (0.001 sec)

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql      |
| performance_schema |
| recovery    |
| sys        |
+-----+
5 rows in set (0.001 sec)

MariaDB [(none)]> exit
Bye

root@asyrof: /home/asyrof/Downloads
mysql -uroot -p recovery - Sample-SQL-File-100rows.sql
Enter password:
```

- Kembali ke halaman awal dan lihat database :



The screenshot shows a terminal window titled 'kalilinux_asyrof [Running] - Oracle VM VirtualBox'. The user is logged in as 'root' at 'asyrof: /home/asyrof/Downloads'. The terminal shows the following commands and output:

```
File Actions Edit View Help
+-----+
| sys                |
+-----+
4 rows in set (0.001 sec)

MariaDB [(none)]> create database recovery;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'create database recovery' at line 1
MariaDB [(none)]> create database recovery;
Query OK, 1 row affected (0.001 sec)

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql      |
| performance_schema |
| recovery    |
| sys        |
+-----+
5 rows in set (0.001 sec)

MariaDB [(none)]> exit
Bye

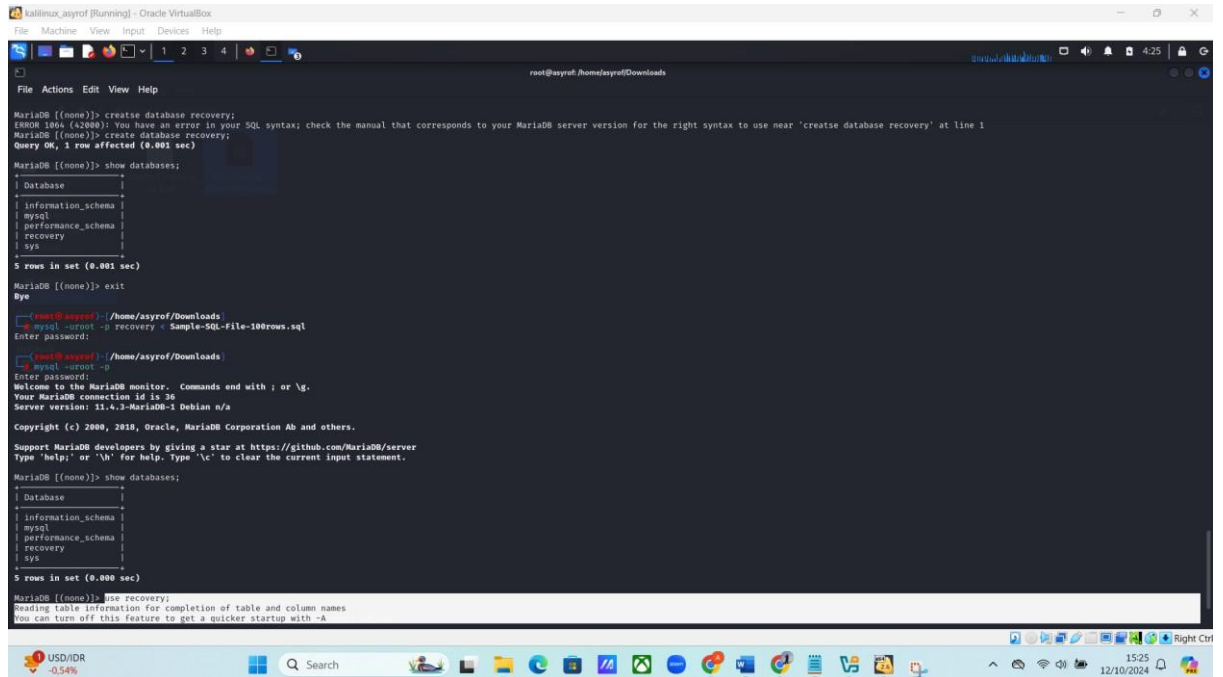
root@asyrof: /home/asyrof/Downloads
mysql -uroot -p recovery - Sample-SQL-File-100rows.sql
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 36
Server version: 11.4.3-MariaDB-1 Debian n/a

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Support MariaDB developers by giving a star at https://github.com/MariaDB/server
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql      |
| performance_schema |
| recovery    |
| sys        |
+-----+
5 rows in set (0.000 sec)
```


➤ Gunakan database recovery :



```
kallinux_asyraf [Running] - Oracle VirtualBox
File Machine View Input Devices Help

root@asyraf:/home/asyraf/Downloads

MariaDB [(none)]> create database recovery;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'create database recovery' at line 1
MariaDB [(none)]> create database recovery;
Query OK, 1 row affected (0.001 sec)

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| recovery |
| sys |
+-----+
5 rows in set (0.001 sec)

MariaDB [(none)]> exit
Bye

root@asyraf:/home/asyraf/Downloads
$ mysql -uroot -p recovery < Sample-SQL-File-100rows.sql
Enter password:
mysql -uroot -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 36
Server version: 11.4.3-MariaDB-1 Debian n/a

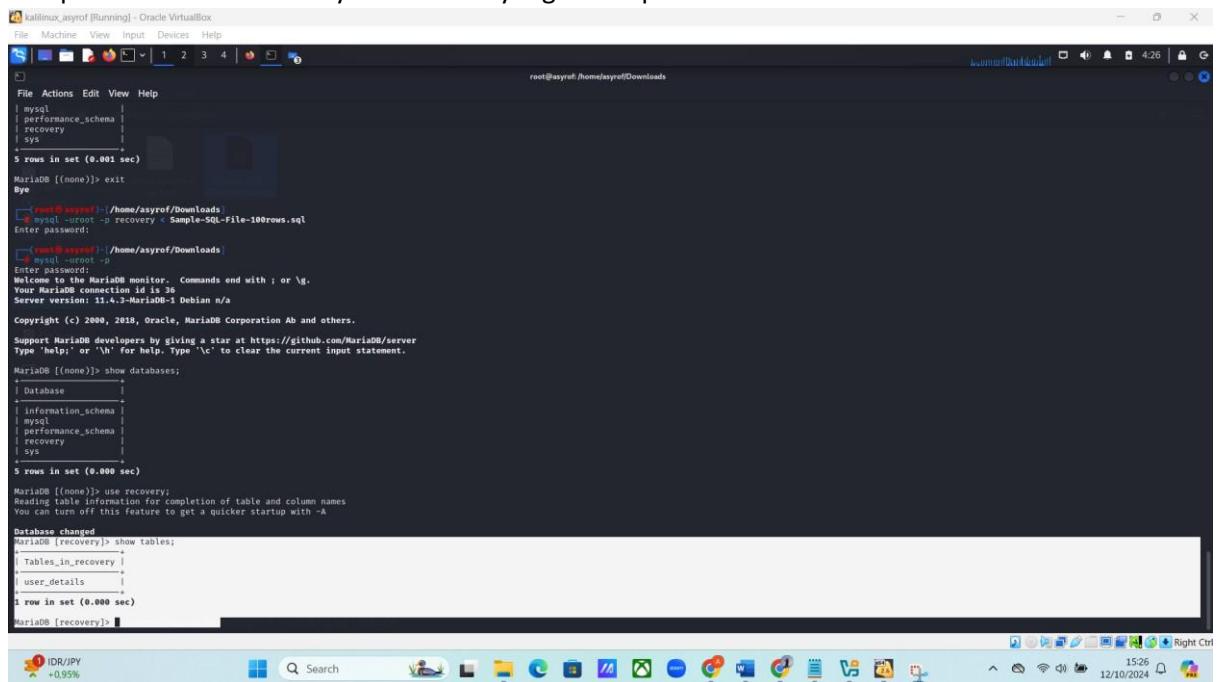
Copyright (c) 2000, 2019, Oracle, MariaDB Corporation Ab and others.

Support MariaDB developers by giving a star at https://github.com/MariaDB/server
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| recovery |
| sys |
+-----+
5 rows in set (0.000 sec)

MariaDB [(none)]> use recovery;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
```

➤ Tampilkan table database nyam aka data yang kita hapus akan Kembali :



```
kallinux_asyraf [Running] - Oracle VirtualBox
File Machine View Input Devices Help

root@asyraf:/home/asyraf/Downloads

mysql
performance_schema
recovery
sys

5 rows in set (0.001 sec)

MariaDB [(none)]> exit
Bye

root@asyraf:/home/asyraf/Downloads
$ mysql -uroot -p recovery < Sample-SQL-File-100rows.sql
Enter password:
mysql -uroot -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 36
Server version: 11.4.3-MariaDB-1 Debian n/a

Copyright (c) 2000, 2019, Oracle, MariaDB Corporation Ab and others.

Support MariaDB developers by giving a star at https://github.com/MariaDB/server
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| recovery |
| sys |
+-----+
5 rows in set (0.000 sec)

MariaDB [(none)]> use recovery;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
MariaDB [recovery]> show tables;
+-----+
| Tables_in_recovery |
+-----+
| user_details |
+-----+
1 row in set (0.000 sec)

MariaDB [recovery]>
```