

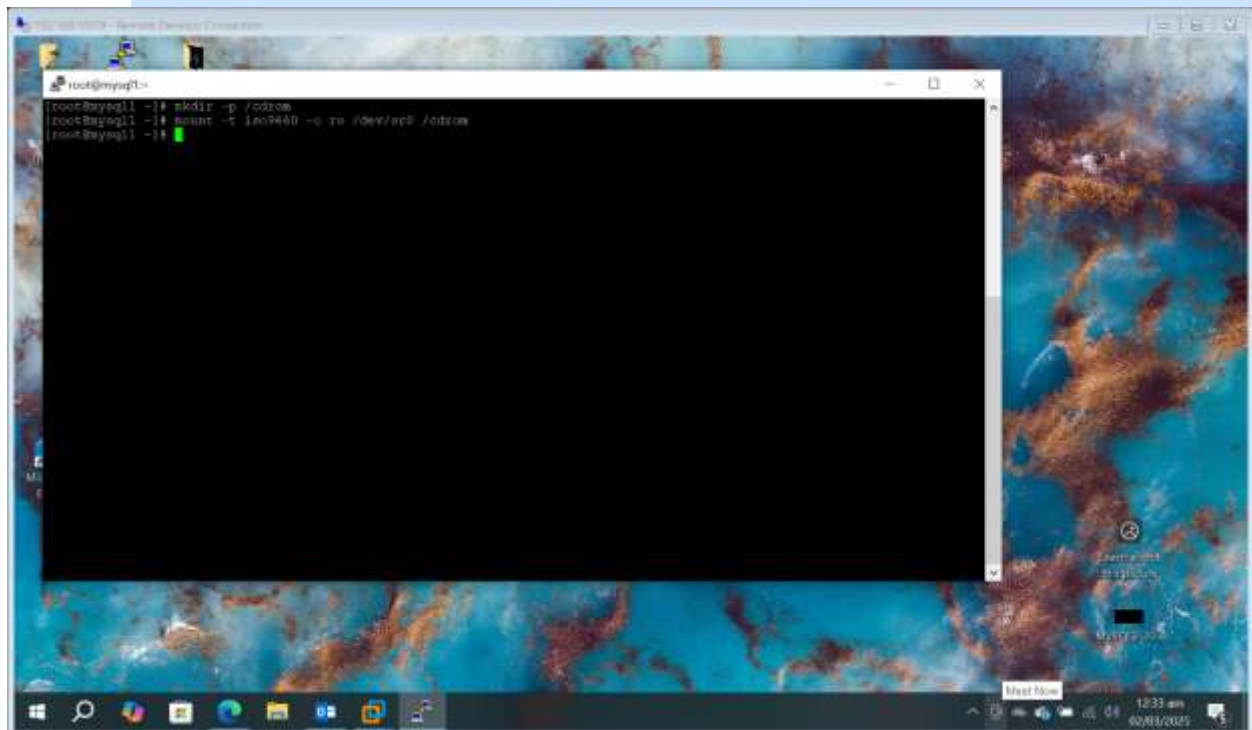


MYSQL Installation

Operating System: Redhat Linux
IP: 192.168.179.137

Create Local Yum Repository

<https://humtechno.com/intro/2024/08/08/create-local-repository-in-linux/>



```

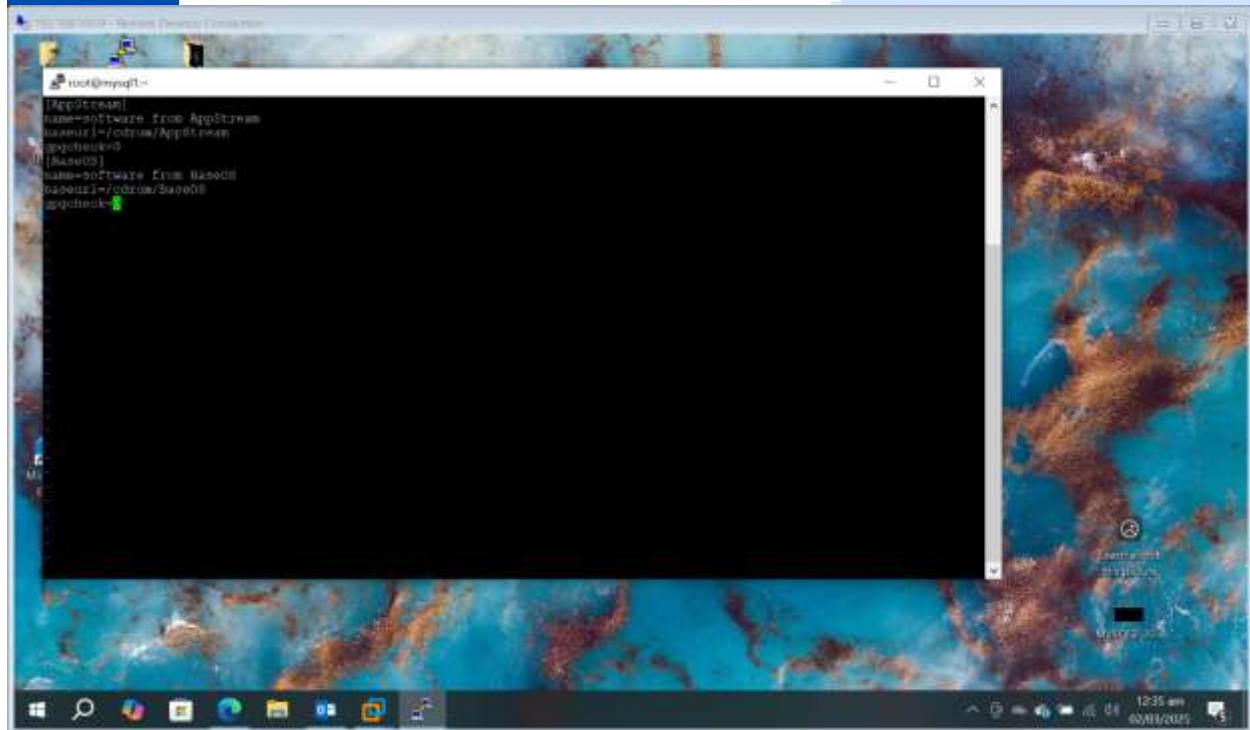
root@myqgl:~# mkdir -p /cdrom
root@myqgl:~# mount -t iso9660 -o ro /dev/sr0 /cdrom
root@myqgl:~# ls -l /etc/yum.repos.d/
total 16
-rw-r--r-- 1 root root 4107 May 22 2024 oracle-linux-ol9.repo
-rw-r--r-- 1 root root 243 May 23 2024 virt-ol9.repo
-rw-r--r-- 1 root root 941 Jan 17 18:00 uak-ol9.repo
root@myqgl:~# rm -rf /etc/yum.repos.d/*
root@myqgl:~# rm -rf /etc/yum.repos.d/oracle-linux-ol9.repo
root@myqgl:~# rm -rf /etc/yum.repos.d/virt-ol9.repo
root@myqgl:~# rm -rf /etc/yum.repos.d/uak-ol9.repo
root@myqgl:~#

```

```

root@myqgl:~# vi /etc/yum.repos.d/my_yum.repo

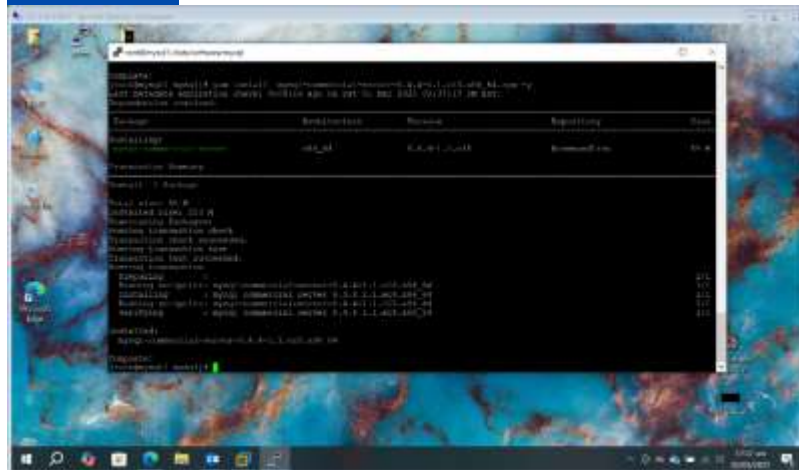
```



Install RPM of MYSQL Database

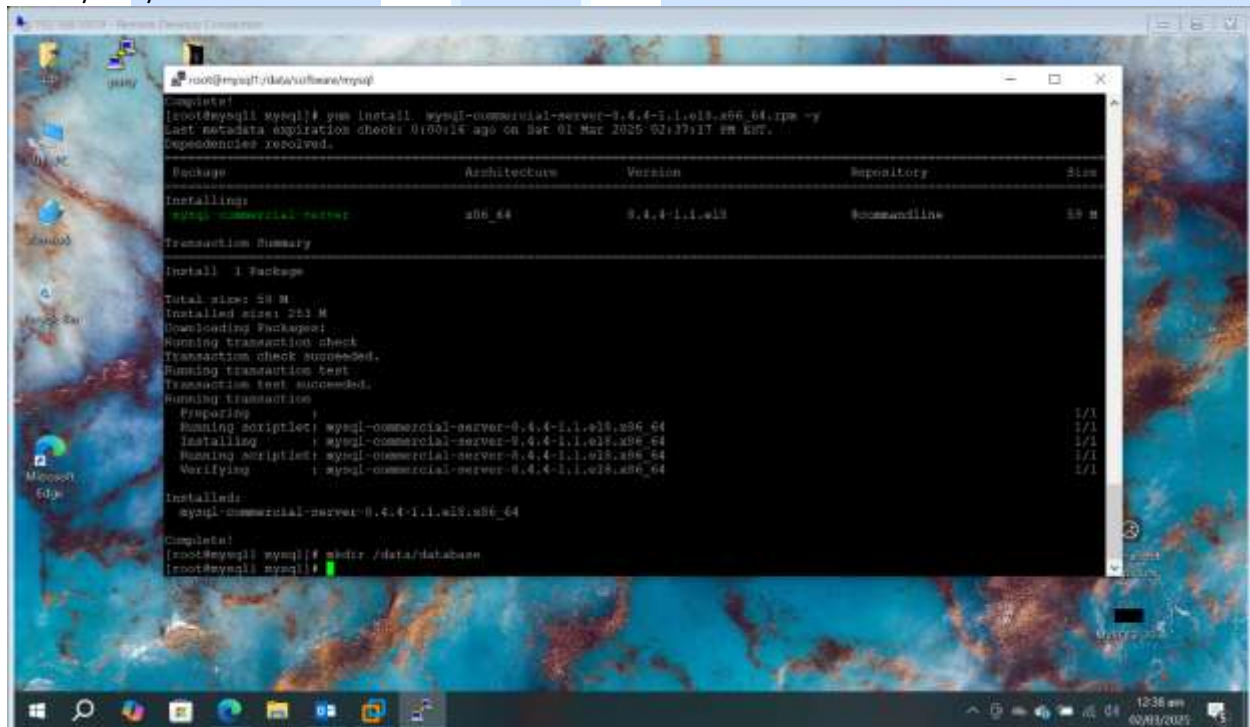
```
cd /data/software/mysql
```

```
yum install mysql-commercial-common-8.4.4-1.* -y  
yum install mysql-commercial-icu-data-files-* -y  
yum install mysql-commercial-client-plugins-8.4.4-1.1.el8.x86_64.rpm -y  
yum install mysql-commercial-libs-8.4.4-1.1.el8.x86_64.rpm -y  
yum install mysql-commercial-client-8.4.4-1.1.el8.x86_64.rpm -y  
yum install mysql-commercial-server-8.4.4-1.1.el8.x86_64.rpm -y
```



Create Directory for Database Files

```
mkdir /data/database
```



Change in MySQL Parameter File

```
vi /etc/my.cnf
```

```
#datadir=/var/lib/mysql
```

```
socket=/var/lib/mysql/mysql.sock
```

```
log-error=/var/log/mysqld.log
```

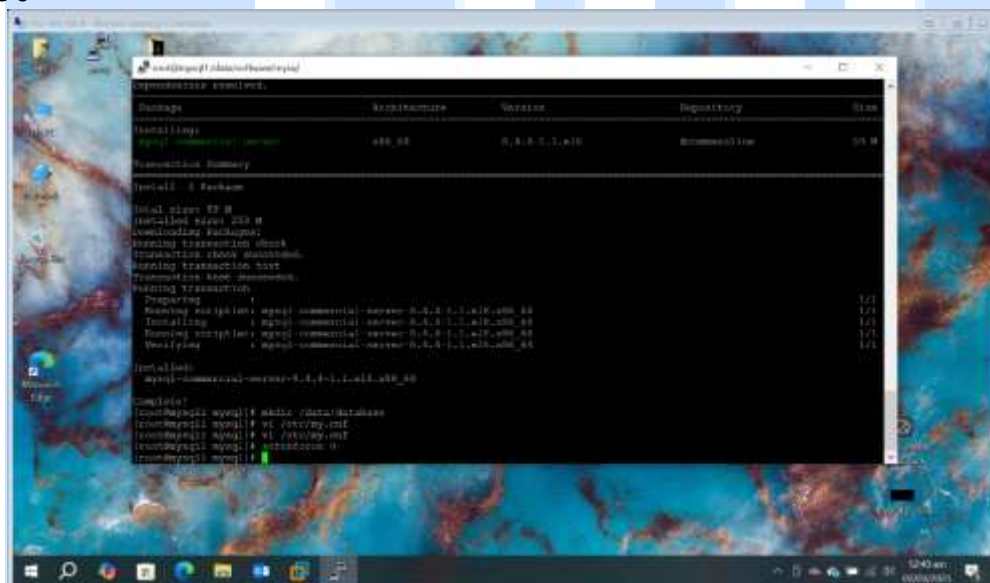
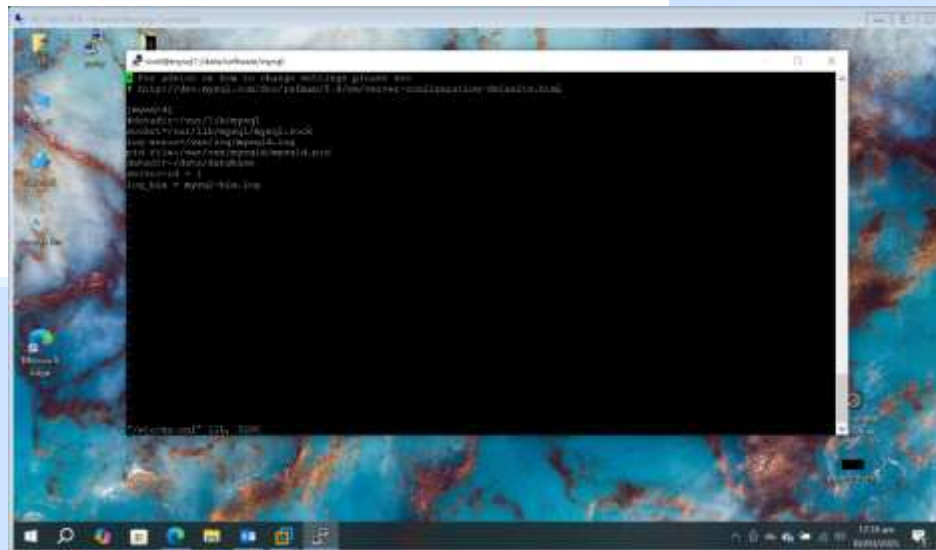
```
pid-file=/var/run/mysqld/mysqld.pid
```

```
datadir=/data/database
```

```
server-id = 1
```

```
log_bin = mysql-bin.log
```

Disable SELINUX



```
vi /etc/selinux/config
SELINUX=disabled
```

The screenshot shows a Windows 10 desktop with a Linux virtual machine window titled 'root@mysql:/data/software/mysql'. The window displays the progress of installing MySQL 5.6.41-1.el6.x86_64. The output shows the transaction summary, package download, and scriptlet execution. The installation is complete, and the user has run commands to create the database directory, create configuration files, and start the MySQL service.

```

Installing
mysql-commercial-server x86_64 5.6.41-1.el6.x86_64 $commandline 59 m

Transaction Summary

Install 1 Package

Total size: 59 M
Installed size: 253 M
Downloading Packages:
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing                1/1
  Running scriptlet: mysql-commercial-server-5.6.41-1.el6.x86_64 1/1
  Installing               1/1
  Running scriptlet: mysql-commercial-server-5.6.41-1.el6.x86_64 1/1
  Verifying                1/1
  Verifying                1/1

Installing
mysql-commercial-server-5.6.41-1.el6.x86_64

Complete!
[root@mysql mysql]# mkdir /data/database
[root@mysql mysql]# vi /etc/my.cnf
[root@mysql mysql]# vi /etc/my.cnf
[root@mysql mysql]# systemctl restart mysqld
[root@mysql mysql]# vi /etc/my.cnf
[root@mysql mysql]# systemctl restart mysqld
Redirecting to /bin/systemctl restart mysqld.service
[root@mysql mysql]#
  
```

Collect One Time Temporary Password of Root User from mysql LOG (/var/log/mysql.log)

Temporary Password =wc:sRdvnU3dU

The screenshot displays a Linux desktop with a terminal window titled 'root@mysql:/data/database/mysql'. The terminal output shows the installation of MySQL 8.4.4-1.1.el8.x86_64. The installation process includes a transaction summary, downloading packages, running transaction checks, and the final completion of the installation. The desktop background is a blue and white abstract pattern. The taskbar at the bottom shows various application icons and the system clock.

```

Installings
mysql-commercial-server      x86_64      8.4.4-1.1.el8      600M
Transaction Summary
Install 1 Package

Total size: 600 M
Installed size: 253 M
Downloading Packages:
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
Preparing 1/1
Running scriptlet: mysql-commercial-server-8.4.4-1.1.el8.x86_64 1/1
Installing 1/1
Running scriptlet: mysql-commercial-server-8.4.4-1.1.el8.x86_64 1/1
Running scriptlet: mysql-commercial-server-8.4.4-1.1.el8.x86_64 1/1
Verifying 1/1
Installing:
mysql-commercial-server-8.4.4-1.1.el8.x86_64

Complete!
[root@mysql ~]# mkdir /data/database
[root@mysql ~]# vi /etc/my.cnf
[root@mysql ~]# vi /etc/my.cnf
[root@mysql ~]# systemctl restart
[root@mysql ~]# vi /etc/mysql/mysql.conf.d/mysqld.cnf
[root@mysql ~]# vi /etc/mysql/mysql.conf.d/mysqld.cnf

```

The screenshot shows a Windows 10 desktop environment. A Kali Linux virtual machine window is open, displaying a terminal window titled 'root@mysql1:/data/collections/mysql'. The terminal output shows the MySQL server logs for March 12, 2025, at 19:41:29. The logs indicate the successful initialization of the MySQL Server and InnoDB, and the start of the mysqld service. The user 'root' is logged in.

```

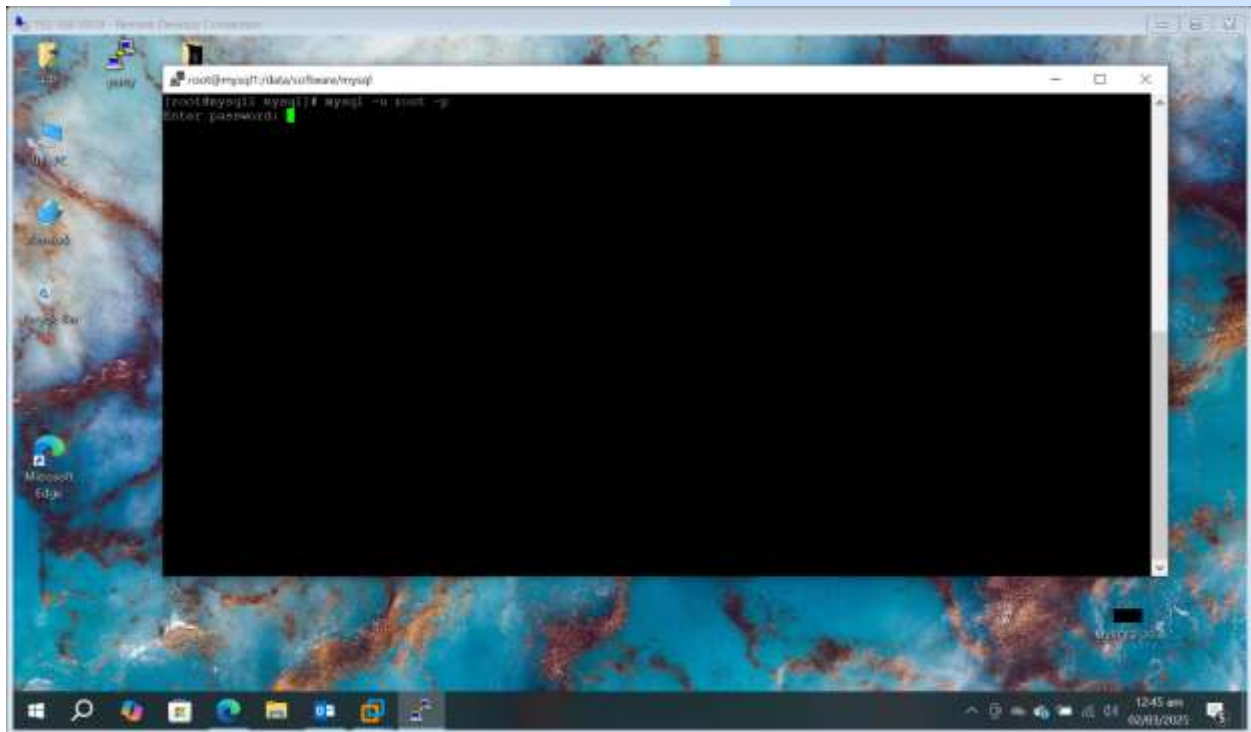
2025-03-12T19:41:29.101478Z 0 [System] [MY-0130117] [Server] MySQL Server Initialization - START.
2025-03-12T19:41:29.114768Z 0 [System] [MY-0131051] [Server] /usr/sbin/mysqld (mysqld 8.0.4-commercial) initializing of server in
progress as process 32474
2025-03-12T19:41:29.165921Z 1 [System] [MY-0135761] [InnoDB] InnoDB initialization has started.
2025-03-12T19:41:29.064537Z 1 [System] [MY-0135771] [InnoDB] InnoDB initialization has ended.
2025-03-12T19:41:30.453714Z 0 [None] [MY-0104547] [Server] A temporary password is generated for root@localhost: 7h3k0r0nd.
2025-03-12T19:41:32.652316Z 0 [System] [MY-0150118] [Server] MySQL Server Initialization - END.
2025-03-12T19:41:33.705705Z 0 [System] [MY-0150115] [Server] MySQL Server - start.
2025-03-12T19:41:32.967944Z 0 [System] [MY-0101116] [Server] /usr/sbin/mysqld (mysqld 8.0.4-commercial) starting as process 32513
2025-03-12T19:41:32.978470Z 1 [System] [MY-0135761] [InnoDB] InnoDB initialization has started.
2025-03-12T19:41:34.050230Z 1 [System] [MY-0135771] [InnoDB] InnoDB initialization has ended.
2025-03-12T19:41:34.545386Z 0 [Warning] [MY-010966P] [Server] CA certificate ca.pem is self signed.
2025-03-12T19:41:34.545461Z 0 [System] [MY-0134021] [Server] Channel mysql_main configured to support TLS. Encrypted connections
are now supported for this channel.
2025-03-12T19:41:34.544332Z 0 [System] [MY-0109311] [Server] /usr/sbin/mysqld: ready for connections. Version: '8.0.4-commercial'
socket: '/var/lib/mysql/mysql.sock'
2025-03-12T19:41:34.554144Z 0 [System] [MY-0111231] [Server] X Plugin ready for connections. Bind-address: '*' port: 33060, socke
t: /var/run/mysql/mysqlx.sock

```

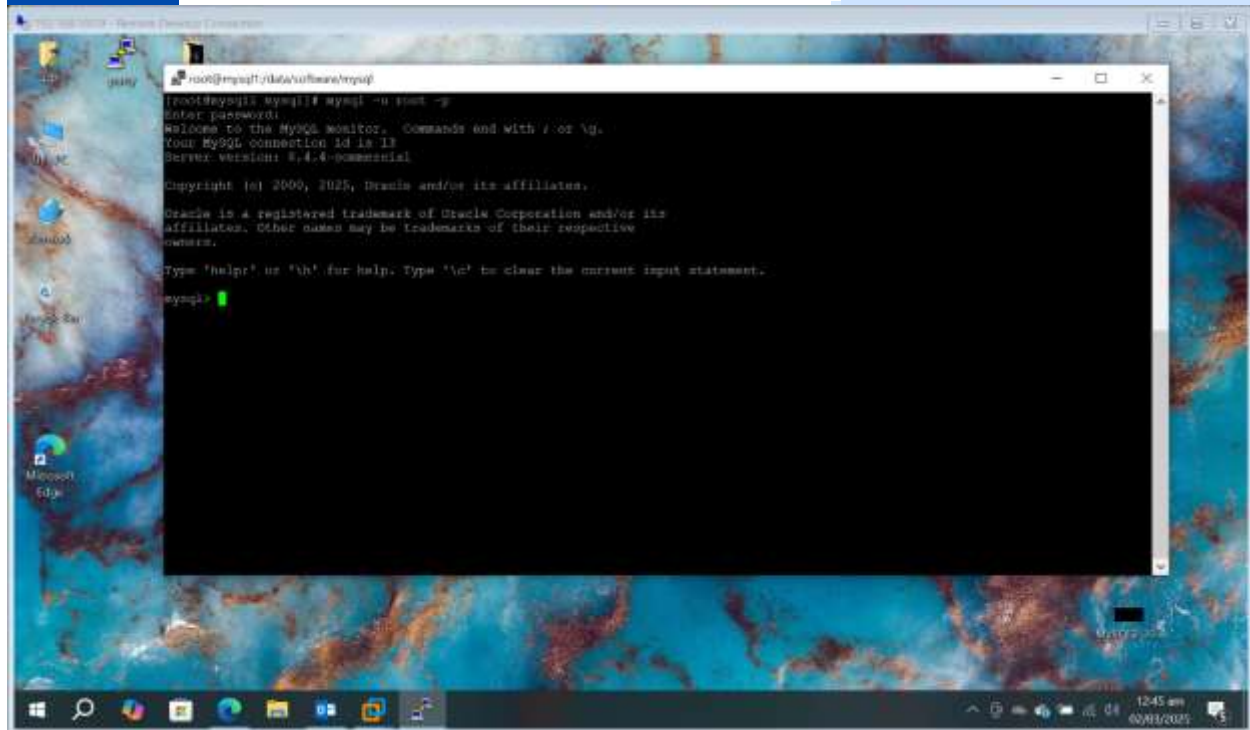
Login MYSQL Database with Temporary Password and Changes this Password



ALTER USER 'root'@'localhost' IDENTIFIED BY 'Oracle321#';
flush privileges;



ECH



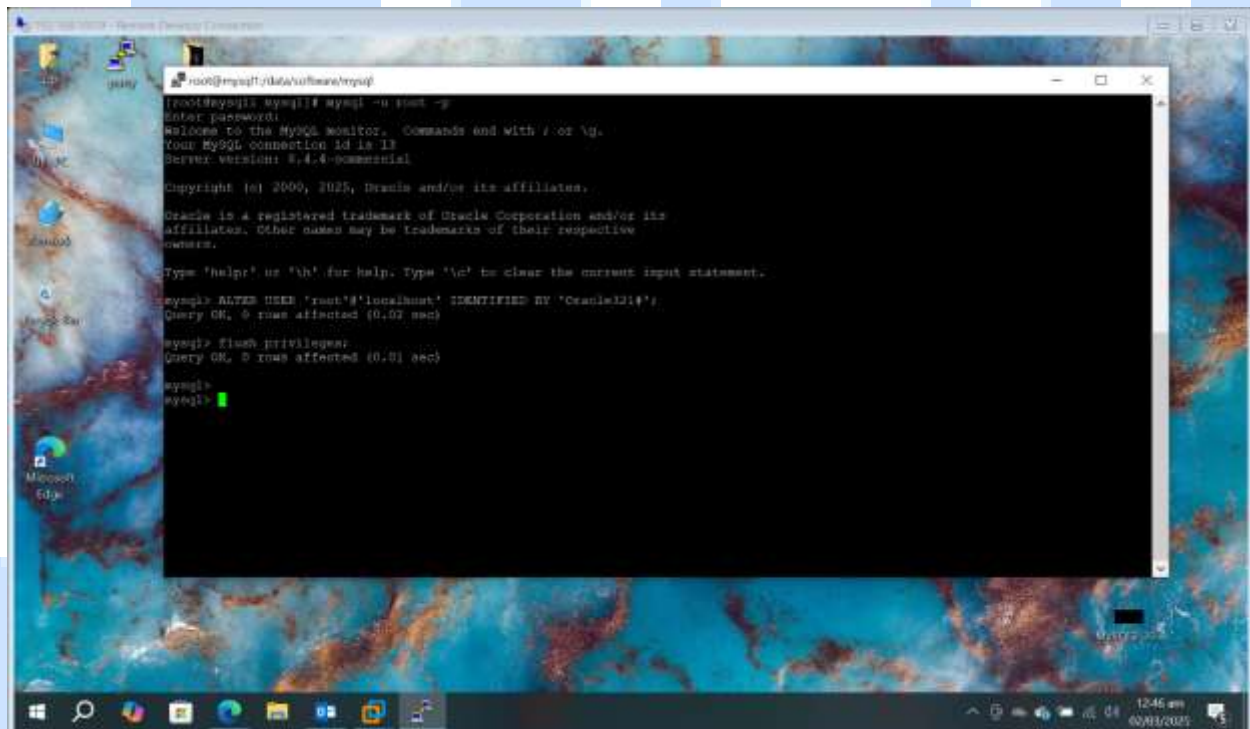
```
root@mysql1:/data/software/mysql# mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands and with / or \g.
Your MySQL connection id is 13
Server version: 8.4.4-commercial

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h;' for help. Type '\c;' to clear the current input statement.

mysql>
```



```
root@mysql1:/data/software/mysql# mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands and with / or \g.
Your MySQL connection id is 13
Server version: 8.4.4-commercial

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h;' for help. Type '\c;' to clear the current input statement.

mysql> ALTER USER 'root'@'localhost' IDENTIFIED BY 'Oracle321#';
Query OK, 0 rows affected (0.02 sec)

mysql> flush privileges;
Query OK, 0 rows affected (0.01 sec)

mysql>
```

Connect to MYSQL Database, Create Database and User for Testing / Verify
`mysql -u root -pOracle321#`



```
show databases;  
create database test;  
create user 'replica1'@'%' identified by 'Oracle321#';  
grant replication slave on *.* to 'replica1'@'%';  
FLUSH PRIVILEGES;  
SHOW BINARY LOG STATUS;
```

Hum TECH

```

root@mysql:/data/software/mysql# mysql -u root -pOracle121#
mysql: [Warning] Using a password on the command line interface can be insecure.
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 14
Server version: 8.4.4-commercial MySQL Enterprise Server - Commercial

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql>

```

```

root@mysql:/data/software/mysql# mysql -u root -pOracle121#
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
4 rows in set (0.02 sec)

mysql> create database test;
Query OK, 1 row affected (0.01 sec)

mysql> create user 'replica1'@'%' identified by 'Oracle121#';
Query OK, 0 rows affected (0.02 sec)

mysql> grant replication slave on *.* to 'replica1'@'%';
Query OK, 0 rows affected (0.00 sec)

mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.00 sec)

mysql> SHOW BINARY LOG STATUS;
+-----+-----+-----+-----+-----+
| File | Position | Binlog_Do_DB | Binlog_Ignore_DB | Executed_Gtid_Set |
+-----+-----+-----+-----+-----+
| mysql-bin.0000003 | 1536 | | | |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql>
mysql>

```