

MYSQL : <https://youtu.be/-KuWT8PKYDc>

MONGODB: <https://youtu.be/W8QEgeNPCX0>

MYSQL :

```
Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to psyched-coast-362905.
Use "gcloud config set project [PROJECT_ID]" to change to a different project.
aadiraj09@cloudshell:~ (psyched-coast-362905)$ kubectl get deployment
NAME          READY   UP-TO-DATE   AVAILABLE   AGE
mysql-deployment 1/1     1            1           2m52s
aadiraj09@cloudshell:~ (psyched-coast-362905)$ kubectl get pods
NAME          READY   STATUS    RESTARTS   AGE
mysql-deployment-7467c475f8-9csgp 1/1     Running   0          3m9s
aadiraj09@cloudshell:~ (psyched-coast-362905)$ ubectl logs mysql-deployment-7467c475f8-9csgp 2>&1 |grep GENERATED
aadiraj09@cloudshell:~ (psyched-coast-362905)$ kubectl logs mysql-deployment-7467c475f8-9csgp 2>&1 |grep GENERATED
[Entrypoint] GENERATED ROOT PASSWORD: J;T04=EQW4*p00nk6nx&L3x7.2%/i%CO
aadiraj09@cloudshell:~ (psyched-coast-362905)$ kubectl exec -it mysql-deployment-7467c475f8-9csgp -- mysql -uroot -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 8.0.30
```

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

```
mysql> show databases;
ERROR 1820 (HY000): You must reset your password using ALTER USER statement before executing this statement.
mysql> ALTER USER 'root@localhost' IDENTIFIED BY pass ;
->
-> ALTER USER 'root@localhost' IDENTIFIED BY pass;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'ALTER USER 'root@localhost' IDENTIFIED BY pass ;'
mysql> ALTER USER root@localhost IDENTIFIED BY pass;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'pass' at line 1
mysql> ALTER USER 'root@localhost' IDENTIFIED BY 'love';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'love' at line 1
mysql> show databases;
ERROR 1820 (HY000): You must reset your password using ALTER USER statement before executing this statement.
mysql> ALTER USER 'root@localhost' IDENTIFIED BY 'pass';
Query OK, 0 rows affected (0.01 sec)

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
4 rows in set (0.03 sec)

mysql> exit
Bye
aadiraj09@cloudshell:~ (psyched-coast-362905)$
```

```
aadiraj09@cloudshell:~ (psyched-coast-362905)$ kubectl get service
NAME          TYPE          CLUSTER-IP    EXTERNAL-IP    PORT(S)          AGE
kubernetes    ClusterIP     10.80.0.1     <none>         443/TCP          11h
mysql-service  LoadBalancer 10.80.15.204  34.95.9.44     3306:31562/TCP   58m
aadiraj09@cloudshell:~ (psyched-coast-362905)$
```

```
-bash: use: command not found
aadiraj09@cloudshell:~ (psyched-coast-362905)$ mysql mysql -uuser -psofe4790u -h34.95.9.44
mysql: [Warning] Using a password on the command line interface can be insecure.
ERROR 2003 (HY000): Can't connect to MySQL server on '34.95.9.44:3306' (110)
aadiraj09@cloudshell:~ (psyched-coast-362905)$ kubectl get service
NAME      TYPE      CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
kubernetes  ClusterIP  10.80.0.1        <none>           443/TCP          11h
mysql-service  LoadBalancer  10.80.8.161     34.152.36.254    3306:30425/TCP   15m
aadiraj09@cloudshell:~ (psyched-coast-362905)$ kubectl get deployment
NAME      READY   UP-TO-DATE   AVAILABLE   AGE
mysql-deployment  1/1     1             1           17m
aadiraj09@cloudshell:~ (psyched-coast-362905)$ kubectl get pods
NAME      READY   STATUS    RESTARTS   AGE
mysql-deployment-5496fdc956-mftqc  1/1     Running   0           17m
aadiraj09@cloudshell:~ (psyched-coast-362905)$ kubectl exec -it mysql-deployment-5496fdc956-mftqc -- mysql -uuser -ppassword
mysql: [Warning] Using a password on the command line interface can be insecure.
ERROR 1045 (28000): Access denied for user 'user'@'localhost' (using password: YES)
command terminated with exit code 1
aadiraj09@cloudshell:~ (psyched-coast-362905)$ kubectl exec -it mysql-deployment-5496fdc956-mftqc -- mysql -uuser -psofe4790u
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 9
Server version: 8.0.30 MySQL Community Server - GPL

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owners.

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

mysql> use myDB;
Database changed
mysql> create table person( id int, age int, name varchar(50));
Query OK, 0 rows affected (0.04 sec)

mysql> insert into person values(1,30,'tom');
Query OK, 1 row affected (0.01 sec)

mysql> insert into person values(2,23,'adam');
Query OK, 1 row affected (0.01 sec)

mysql> insert into person values(3,79,'Joe');
Query OK, 1 row affected (0.02 sec)

mysql> select * from person where age>=30;
+-----+
| id | age | name |
+-----+
| 1 | 30 | tom |
| 3 | 79 | Joe |
+-----+
2 rows in set (0.00 sec)

mysql> []
```

MONGODB:

```
aadiraj09@cloudshell:~ (psyched-coast-362905)$ kubectl apply -f mongodb.yaml
service/mongodb-service created
deployment.apps/mongodb-deployment created
aadiraj09@cloudshell:~ (psyched-coast-362905)$ kubectl get service
NAME      TYPE      CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
kubernetes  ClusterIP  10.80.0.1        <none>           443/TCP          14h
mongodb-service  LoadBalancer  10.80.3.234     <pending>        3306:30977/TCP   32s
mysql-service  LoadBalancer  10.80.9.46     34.152.36.254    3306:30775/TCP   59m
aadiraj09@cloudshell:~ (psyched-coast-362905)$ kubectl get deployment
NAME      READY   UP-TO-DATE   AVAILABLE   AGE
mongodb-deployment  1/1     1             1           41s
mysql-deployment  1/1     1             1           59m
aadiraj09@cloudshell:~ (psyched-coast-362905)$ kubectl get pods
NAME      READY   STATUS    RESTARTS   AGE
mongodb-deployment-5bb5b8f54c-w6t4h  1/1     Running   0           52s
mysql-deployment-5496fdc956-h74kk  1/1     Running   0           59m
aadiraj09@cloudshell:~ (psyched-coast-362905)$ kubectl get service
NAME      TYPE      CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
kubernetes  ClusterIP  10.80.0.1        <none>           443/TCP          14h
mongodb-service  LoadBalancer  10.80.3.234     34.95.9.44       3306:30977/TCP   2m59s
mysql-service  LoadBalancer  10.80.9.46     34.152.36.254    3306:30775/TCP   61m
```

```
test> db.person.insertMany([{name:"john",age:30},{name:"tom",age:29},{name:"adam",age:79},])
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("632784d35cad61782b28037c"),
    '1': ObjectId("632784d35cad61782b28037d"),
    '2': ObjectId("632784d35cad61782b28037e")
  }
}
test> show dbs
admin    100.00 KiB
config   92.00 KiB
local    72.00 KiB
test     48.00 KiB
```

```
test> db.person.find( {age: {$gt:29}})
[
  { _id: ObjectId("632784d35cad61782b28037c"), name: 'john', age: 30 },
  { _id: ObjectId("632784d35cad61782b28037e"), name: 'adam', age: 79 }
]
test>
```