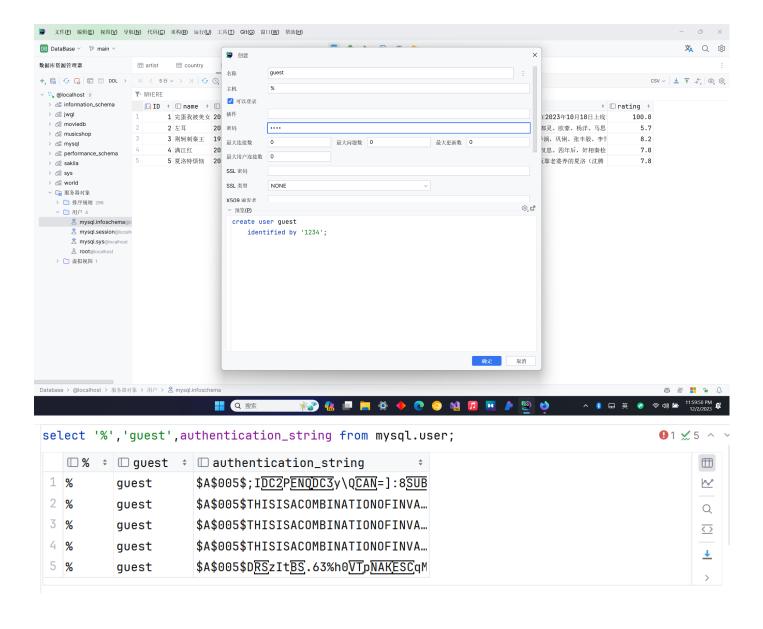
- Report
 - 过程
 - 1. 定义用户及授权
 - 尝试将NetMusicShop的Albums表的查询权限、插入、删除授予该用户
 - 查询该用户权限是否符合要求
 - 2.配置审计功能
 - 授予guest用户插入audit表权限
 - 开启binlog
 - 配置init-connect
 - 使用guest登录后insert一条记录,delete一条记录到Albums
 - 使用root登录,查询audit表,查看是否有记录产生
 - 验证审计能力
 - 查阅binlog
 - 验证host的作用

Report

过程

1. 定义用户及授权



尝试将NetMusicShop的Albums表的查询权限、插入、删除授予该用户

```
GRANT SELECT, INSERT, DELETE ON MusicShop.Albums TO 'guest'@'%';
FLUSH PRIVILEGES;
```

查询该用户权限是否符合要求

2.配置审计功能

```
grant insert
on auditlog.audit
to 'guest'@'%';
FLUSH PRIVILEGES;
```

开启binlog

```
MySQL Shell
Warning (code 1366): Incorrect string value: '\xD6\xD0\xB9\xFA\xB1\xEA...' for column 'VARIABLE_VALUE' at row 1

MySQL localhost:33060+ ssl SQL > show variables like 'log_%';
  Variable_name
  log_bin
                                                          C:\ProgramData\MySQL\MySQL Server 8.0\Data\MARS-bin
C:\ProgramData\MySQL\MySQL Server 8.0\Data\MARS-bin.index
  log_bin_basename
  log_bin_trust_function_creators
log_bin_use_v1_row_events
  log_error
  log_error_services
  log_error_suppression_list
log_error_verbosity
log_output
  log_queries_not_using_indexes
                                                          OFF
ON
  log_replica_updates
  log_slave_updates
  log_slow_replica_statements
  log_slow_slave_statements
  log_throttle_queries_not_using_indexes
  log_timestamps
21 rows in set, 1 warning (0.0018 sec)
Warning (code 1366): Incorrect string
                            Incorrect\ string\ value:\ '\xD6\xD0\xB9\xFA\xB1\xEA...'\ for\ column\ 'VARIABLE\_VALUE'\ at\ row\ 1
          localhost:33060+ ssl
```

配置init-connect

```
MySQL Shell 8.0.34

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Other names may be trademarks of their respective owners.

Type '\help' or '\?' for help; '\quit' to exit.

MySQL JS \ \text{Connect root@localhost}
Creating a session to 'root@localhost'
Fetching schema names for auto-completion... Press ^C to stop.
Your MySQL connection id is 15 (X protocol)
Server version: 8.0.34 MySQL Community Server - GPL
No default schema selected; type \use 'schema' to set one.

MySQL localhost:33050+ ssl JS \underselectric \underselectric
```

使用guest登录后insert一条记录,delete一条记录到Albums

```
MySQL Shell
Server version: 8.0.34 MySQL Community Server - GPL
No default schema selected; type \use <schema> to set one.

MySQL localhost:33060+ ssl SQL > show variables like 'init_connect%';
| Variable_name | Value
1 row in set, 1 warning (0.0017 sec) Warning (code 1366): Incorrect string value: '\xD6\xD0\xB9\xFA\xB1\xEA...' for column 'VARIABLE_VALUE' at row 1 MySQL localhost:33060+ ssl SQL > select *
                                         > select *
-> from auditlog.audit;
 id | thread_id | login_time
                                                  localname
                                                                        | matchname
                                                                          guest@%
                        2023-12-03 01:10:13
                                                    guest@localhost
                        2023-12-03 01:10:22
2023-12-03 01:10:22
                                                    guest@localhost
                                                                           guest@%
                                                    guest@localhost
                                                                          guest@%
                                                    guest@localhost
                                                                         guest@%
                       2023-12-03 01:10:58 | 2023-12-03 01:11:09 |
                                                   guest@localhost | guest@% guest@localhost | guest@%
                                                   guest@localhost
                                                                          guest@%
                 26 I
6 rows in set (0.0011 sec)

MySQL localhost:33060+ ssl
```

验证审计能力

查阅binlog

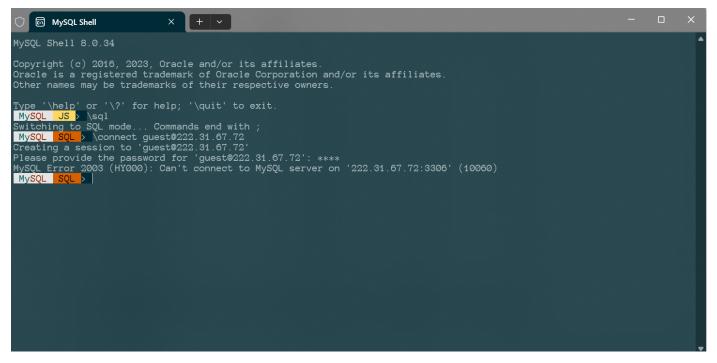
```
盘工作 吻红出汗中
                                                + ~

    管理员: Windows PowerShell ×

# to make the statement usable on server versions 8.0.24 and older.
/*!50530 SET @@SESSION.PSEUDO_SLAVE_MODE=1*/;
/*!50003 SET @OLD_COMPLETION_TYPE=@@COMPLETION_TYPE,COMPLETION_TYPE=0*/;
#231202 23:57:22 server id 1 end_log_pos 126 CRC32 0xffae65e2 Start: binlog v 4, server v 8.0.34 created 231202 23:57:
22 at startup
   Warning: this binlog is either in use or was not closed properly.
# at 126
#231202 23:57:22 server id 1 end_log_pos 157 CRC32 0xf6c714f1 Previous-GTIDs
# [empty]
# at 157
                                     id 1 end_log_pos 236 CRC32 0xdb94bf0c Anonymoriginal_committed_timestamp=1701532861647234
                                                                                                      Anonymous_GTID last_committed=0
1 rbr_only=no
transaction_length=315
                                                                                                                  immediate_commit_timestamp=1701532861647234
transaction_length=315
# original_commit_timestamp=1701532861647234 (2023-12-03 00:01:01.647234 中国标准时间)
# immediate_commit_timestamp=1701532861647234 (2023-12-03 00:01:01.647234 中国标准时间)
/*!80001 SET @@session.original_commit_timestamp=1701532861647234*//*!*/;
/*!80014 SET @@session.original_server_version=80034*//*!*/;
/*!80014 SET @@session.immediate_server_version=80034*//*!*/;
SET @@SESSION.GTID_NEXT= 'ANONYMOUS'/*!*/;
   at 236
- More
```

验证host的作用

```
UPDATE mysql.user
SET Host = '222.31.67.72'
WHERE User = 'guest';
FLUSH PRIVILEGES;
```



尝试从本机(通常是localhost或127.0.0.1)进行连接。 MySQL的用户权限系统是基于用户名和主机名的,所以如果你的host字段不匹配你尝试连接的主机,那么连接将不会成功。