

??????mysql?

MySQL 5.6 ~ MySQL 8.4 ???????

```
-- 验证validate_passwordMySQL 5.7
select * from information_schema.plugins where plugin_name = 'validate_password';
-- MySQL
show variables LIKE 'validate_password%';
-- MySQL
show variables like 'default_password_lifetime';
-- MySQL 5.7
select user, host, password_last_changed, password_lifetime from mysql.user;
-- 交互超时
show variables like '%timeout';
-- rootTLS
select user, host, ssl_type from mysql.user where user = 'root';
-- TLS
show variables like 'require_secure_transport';
-- MySQLTLS
show variables like 'have_ssl';
-- MySQLTLS
show global variables like 'ssl_cipher';
-- TLS
show session status like 'ssl_cipher';
show session status LIKE 'Ssl_cipher_list';
show session status like 'ssl_version';
-- MySQLTLS
show variables like 'tls_version';
--
select
Host,Account_locked,User,Insert_priv,Delete_priv,Alter_priv,Drop_priv,Grant_priv,Super_priv
from mysql.user;
--
SELECT * FROM `role_edges`;
SELECT * FROM `USER_PRIVILEGES`;
--
show variables like 'log%';
```

```
-- 確認MySQLバージョン
-- 確認MySQLのインストールディレクトリ
select user, host, plugin, authentication_string from mysql.user;
-- 確認MySQLのsha256_passwordプラグインの有無
SHOW VARIABLES LIKE 'sha256_password_public_key_path';
-- 確認MySQLのsha256_passwordプラグインの有無
SHOW VARIABLES LIKE 'sha256_password_private_key_path';
-- 確認MySQLのインストールディレクトリ
show status like 'rsa_public_key';
```

MySQL 8.0 ~MySQL 8.4????

```
-- MySQL 5.7のインストールディレクトリを確認
select * from mysql.user where length(authentication_string) = 0 or authentication_string is null;
-- MySQL 8.0.2のインストールディレクトリを確認
select * from mysql.component;
-- MySQL 8.0のインストールディレクトリを確認
select user, host, password_last_changed,
password_lifetime,password_expired,password_reuse_history,password_reuse_time from mysql.user;
-- MySQL 8.0のインストールディレクトリを確認
select host,user,User_attributes from mysql.user;
-- MySQL 8.0のインストールディレクトリを確認
show variables like 'caching_sha2_password_private_key_path';
-- MySQL 8.0のインストールディレクトリを確認
show variables like 'caching_sha2_password_public_key_path';
-- MySQL 8.0のインストールディレクトリを確認
show status like 'caching_sha2_password_rsa_public_key';
```

MySQL 9.0 ~MySQL 9.5????

```
-- ===== 1. インストール =====
-- 1.1 MySQL 8.0+ のインストール
-- MySQL 8.0+ の component_validate_password プラグインの有無を確認
SELECT * FROM mysql.component
WHERE component_urn = 'file://component_validate_password';
-- インストールディレクトリを確認
-- INSTALL COMPONENT 'file://component_validate_password';

-- 1.2 MySQLのインストールディレクトリを確認
SHOW VARIABLES LIKE 'validate_password.%';
```

```
-- 验证密码策略
-- validate_password.length          - 密码长度8
-- validate_password.policy           - 策略LOW/MEDIUM/STRONG
-- validate_password.mixed_case_count - 大小写字母
-- validate_password.number_count     - 数字
-- validate_password.special_char_count - 特殊字符
-- validate_password.dictionary_file  - 字典文件
```

-- 1.3 查看MySQL配置

```
SHOW VARIABLES LIKE 'default_password_lifetime';
```

```
-- 密码过期0表示密码永久有效90天
```

-- 1.4 查看用户密码策略

```
SELECT user, host,
       password_last_changed AS '密码最后修改时间',
       password_lifetime AS '密码有效期(天)',
       CASE
           WHEN password_lifetime IS NULL THEN '无限制'
           WHEN password_lifetime = 0 THEN '永久有效'
           ELSE CONCAT(password_lifetime, '天')
       END AS '密码策略'
FROM mysql.user
ORDER BY user, host;
```

-- ===== 2. 查看MySQL配置 =====

-- 2.1 查看MySQL配置

```
SHOW VARIABLES LIKE '%timeout';
```

```
-- 配置
```

```
-- interactive_timeout  - 交互式连接超时时间28800/8
-- wait_timeout          - 非交互式连接超时时间
-- connect_timeout       - 连接超时时间
```

-- ===== 3. TLS/SSL 配置 =====

-- 3.1 查看MySQL root用户TLS配置

```
SELECT user, host, ssl_type,
       CASE ssl_type
           WHEN '' THEN '无TLS'
           WHEN 'ANY' THEN '任意TLS'
           WHEN 'X509' THEN 'X509'
           WHEN 'SPECIFIED' THEN '指定证书'
```

```

        END AS 'TLS'
FROM mysql.user
WHERE user = 'root';

-- 3.2 查看MySQL的TLS配置
SELECT user, host, ssl_type
FROM mysql.user
WHERE ssl_type != ''
ORDER BY user, host;

-- 3.3 查看MySQL的TLS配置
SHOW VARIABLES LIKE 'require_secure_transport';
-- 查看MySQL的TLS配置
-- 查看MySQL的TLS配置

-- 3.4 查看MySQL的TLS配置
SHOW VARIABLES LIKE 'have_ssl';
-- 查看MySQL的TLS配置
-- 查看MySQL的TLS配置

-- 3.5 查看MySQL的TLS配置
SHOW GLOBAL VARIABLES LIKE 'ssl_%';
-- 查看MySQL的TLS配置
-- ssl_ca          - CA证书
-- ssl_cert        - 证书
-- ssl_key         - 私钥
-- ssl_cipher      - 加密算法

-- 3.6 查看MySQL的TLS配置
SHOW SESSION STATUS LIKE 'ssl_cipher';
SHOW SESSION STATUS LIKE 'Ssl_cipher_list';
SHOW SESSION STATUS LIKE 'ssl_version';
-- 查看MySQL的TLS配置
-- 查看MySQL的TLS配置

-- 3.7 查看MySQL的TLS配置
SHOW VARIABLES LIKE 'tls_version';
-- 查看MySQL的TLS配置
-- 查看MySQL的TLS配置

-- ===== 4. 查看MySQL的TLS配置 =====
-- 4.1 查看MySQL 9.0 的TLS配置
SELECT Host, User, Account_locked AS '是否锁定',
        Insert_priv AS '是否插入',

```

```

        Delete_priv AS '[]',
        Alter_priv AS '[]',
        Drop_priv AS '[]',
        Grant_priv AS '[]',
        Super_priv AS '[]',
        Create_role_priv AS '[]',
        Drop_role_priv AS '[]'
FROM mysql.user
ORDER BY User, Host;
-- []Super_priv [] MySQL 8.0+ []

-- 4.2 []
SELECT FROM_HOST AS '[]',
       FROM_USER AS '[]',
       TO_HOST AS '[]',
       TO_USER AS '[]',
       WITH_ADMIN_OPTION AS '[]'
FROM mysql.role_edges
ORDER BY FROM_USER, TO_USER;

-- 4.3 []
SELECT GRANTEE AS '[]',
       PRIVILEGE_TYPE AS '[]',
       IS_GRANTABLE AS '[]'
FROM information_schema.USER_PRIVILEGES
ORDER BY GRANTEE, PRIVILEGE_TYPE;

-- 4.4 []
SELECT Host, User, Db AS '[]',
       Select_priv, Insert_priv, Update_priv, Delete_priv,
       Create_priv, Drop_priv, Grant_priv
FROM mysql.db
ORDER BY Db, User;

-- ===== 5. [] =====

-- 5.1 []
SHOW VARIABLES LIKE 'log%';
-- []

```

```

-- log_error                -   日志文件
-- general_log              -   一般查询日志
-- slow_query_log           -   慢查询日志
-- log_bin                  -   二进制日志
-- log_bin_trust_function_creators -  是否信任函数创建器

-- 5.2 查看插件
SELECT PLUGIN_NAME, PLUGIN_STATUS, PLUGIN_TYPE, PLUGIN_LIBRARY
FROM information_schema.PLUGINS
WHERE PLUGIN_NAME LIKE '%audit%';

-- ===== 6. 查看密码插件 =====
-- 6.1 查看密码插件
SELECT user, host,
       plugin AS '插件',
       CASE plugin
         WHEN 'mysql_native_password' THEN 'MySQL 5.7 默认'
         WHEN 'caching_sha2_password' THEN 'MySQL 8.0+ 缓存SHA2'
         WHEN 'sha256_password' THEN 'SHA256'
         WHEN 'auth_socket' THEN 'Socket'
         ELSE plugin
       END AS '描述',
       CHAR_LENGTH(authentication_string) AS '长度'
FROM mysql.user
ORDER BY user, host;

-- 查看MySQL 9.0 是否 caching_sha2_password

-- 6.2 查看 sha256_password 是否
SHOW VARIABLES LIKE 'sha256_password_public_key_path';

-- 6.3 查看 sha256_password 是否
SHOW VARIABLES LIKE 'sha256_password_private_key_path';

-- 6.4 查看RSA
SHOW STATUS LIKE 'rsa_public_key';

-- ===== 7. 查看MySQL 8.0+/9.0 组件 =====
-- 7.1 查看MySQL 8.0+ 组件
SELECT component_id, component_group_id, component_urn

```

```
FROM mysql.component
ORDER BY component_id;
```

```
-- 7.2 检查 SHOW COMPONENTS 是否MySQL 8.0.17+
```

```
SELECT component_id AS 'ID',
       component_group_id AS 'GroupID',
       component_urn AS 'URN'
```

```
FROM mysql.component
ORDER BY component_id;
```

```
-- 7.3 检查插件
```

```
SELECT PLUGIN_NAME, PLUGIN_VERSION, PLUGIN_STATUS, PLUGIN_TYPE, PLUGIN_LIBRARY
FROM information_schema.PLUGINS
WHERE PLUGIN_STATUS = 'ACTIVE'
ORDER BY PLUGIN_TYPE, PLUGIN_NAME;
```

```
-- ===== 8. 检查MySQL 8.0+/9.0 用户 =====
```

```
-- 8.1 检查所有用户的Super_priv
```

```
SELECT USER AS '用户', HOST AS '主机', PRIV AS '权限'
FROM mysql.global_grants
ORDER BY USER, HOST, PRIV;
```

```
-- 检查权限
```

```
-- ROLE_ADMIN           - 角色
-- BINLOG_ADMIN          - 二进制日志
-- CONNECTION_ADMIN      - 连接
-- REPLICATION_SLAVE_ADMIN - 复制从
-- SYSTEM_VARIABLES_ADMIN - 系统变量
-- BACKUP_ADMIN           - 备份
```

```
-- ===== 9. 检查系统变量 =====
```

```
SHOW VARIABLES WHERE Variable_name IN (
    'local_infile',           -- 本地文件
    'secure_file_priv',       -- 安全文件
    'skip_name_resolve',      -- 跳过DNS解析
    'sql_mode',               -- SQL模式
    'max_connect_errors',     -- 最大连接错误
    'max_connections',        -- 最大连接
```

```

        'max_user_connections'          -- 最大接続数
    );

-- ===== 10. 接続確認 =====
-- 10.1 接続確認
SELECT user, host, '!!!接続確認!!!' AS '確認'
FROM mysql.user
WHERE authentication_string = '' OR authentication_string IS NULL;

-- 10.2 接続確認
SELECT user, host, '接続確認' AS '確認'
FROM mysql.user
WHERE host = '%'
ORDER BY user;

-- =====
-- 接続確認
-- =====

SELECT '
=====
MySQL 9.0 接続確認

接続確認
1. 接続 caching_sha2_password 接続確認
2. 接続確認 >= 8 接続確認
3. 接続確認90-180度
4. 接続確認 TLS/SSL 接続
5. 接続確認
6. 接続確認
7. 接続確認
8. 接続 local_infile接続 secure_file_priv
9. 接続確認
10. MySQL 9.0 接続確認 Super_priv

=====
' AS '確認';

```

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