



Create a User

Syntax

```
CREATE USER [IF NOT EXISTS] 'username'@'host'  
  [IDENTIFIED [WITH auth_plugin] [BY 'password'] [BY PASSWORD 'hash']]  
  [REQUIRE {NONE | SSL | X509 | CIPHER 'cipher' | ISSUER 'issuer' | SUBJECT 'subject'}]  
  [WITH {MAX_QUERIES_PER_HOUR count | MAX_UPDATES_PER_HOUR count |  
MAX_CONNECTIONS_PER_HOUR count | MAX_USER_CONNECTIONS count}]  
  [PASSWORD EXPIRE [DEFAULT | NEVER | INTERVAL N DAY]]  
  [ACCOUNT {LOCK | UNLOCK}]  
  [COMMENT 'comment'];
```

Syntax

- `CREATE USER username@host IDENTIFIED BY 'password';`
- `CREATE or REPLACE USER username@host IDENTIFIED BY 'password';`

Account (Account Names)

- An account name contains = username + hostname
 - 'username'@'hostname'

Host

- % -> 'username'@'%'
- IP Address or Hostname->'username'@'192.168.1.51' or 'username'@'company.com'
- Specific Wildcard Patterns-> 'username'@'192.168.1.%' or 'username'@'*.example.com'
- localhost -> 'username'@'localhost'

Host

- `CREATE USER 'username'@'%' IDENTIFIED BY 'password';`

Authentication Options

- IDENTIFIED BY 'password'
- IDENTIFIED BY PASSWORD 'password_hash'
- IDENTIFIED {VIA|WITH} authentication_plugin

IDENTIFIED BY 'password'

- `CREATE USER 'username'@'host' IDENTIFIED BY 'password';`

IDENTIFIED BY PASSWORD 'password_hash'

- `SELECT PASSWORD('OurPassword');-> password_hash`
- `CREATE USER 'username'@'host' IDENTIFIED BY 'password_hash';`

IDENTIFIED {VIA|WITH} authentication_plugin

- The plugin should be listed in [SHOW PLUGINS](#)
- CREATE USER 'username'@'host' IDENTIFIED VIA ed25519 using password('ourpassword');

TLS Options

Option	Description
REQUIRE NONE	TLS is not required for this account, but can still be used.
REQUIRE SSL	The account must use TLS, but no valid X509 certificate is required. This option cannot be combined with other TLS options.
REQUIRE X509	The account must use TLS and must have a valid X509 certificate. This option implies REQUIRE SSL . This option cannot be combined with other TLS options.
REQUIRE ISSUER 'issuer'	The account must use TLS and must have a valid X509 certificate. Also, the Certificate Authority must be the one specified via the string <code>issuer</code> . This option implies REQUIRE X509 . This option can be combined with the <code>SUBJECT</code> , and <code>CIPHER</code> options in any order.
REQUIRE SUBJECT 'subject'	The account must use TLS and must have a valid X509 certificate. Also, the certificate's Subject must be the one specified via the string <code>subject</code> . This option implies REQUIRE X509 . This option can be combined with the <code>ISSUER</code> , and <code>CIPHER</code> options in any order.
REQUIRE CIPHER 'cipher'	The account must use TLS, but no valid X509 certificate is required. Also, the encryption used for the connection must use a specific cipher method specified in the string <code>cipher</code> . This option implies REQUIRE SSL . This option can be combined with the <code>ISSUER</code> , and <code>SUBJECT</code> options in any order.

Resource Limit Options

MAX_QUERIES_PER_HOUR	Number of statements that the account can issue per hour (including updates)
MAX_UPDATES_PER_HOUR	Number of updates (not queries) that the account can issue per hour
MAX_CONNECTIONS_PER_HOUR	Number of connections that the account can start per hour
MAX_USER_CONNECTIONS	Number of simultaneous connections that can be accepted from the same account; if it is 0, max_connections will be used instead; if max_connections is 0, there is no limit for this account's simultaneous connections.
MAX_STATEMENT_TIME	Timeout, in seconds, for statements executed by the user.

Resource Limit Options

- CREATE USER 'username'@'host' IDENTIFIED BY 'password'
With Max_queries_per_hour 50
Max_update_per_hour 10;

Password_option = Password Expiry

- PASSWORD EXPIRE DEFAULT
- PASSWORD EXPIRE NEVER
- PASSWORD EXPIRE INTERVAL N DAY

Password Expiry

- `CREATE USER 'username'@'host' IDENTIFIED BY 'password' expire interval 120 day;`

lock_option

- ACCOUNT LOCK
- ACCOUNT UNLOCK

ALTER USER

- ALTER USER 'user_name'@'host' [OPTIONS];

Change Password

- ALTER USER 'username'@'localhost' IDENTIFIED BY 'newPassword';

Change Password

- ALTER USER 'username'@'localhost' PASSWORD EXPIRE;

Change Host

- ALTER USER 'username'@'old_host' TO 'username'@'new_host';

Altering the current user?

- ALTER USER CURRENT_USER() IDENTIFIED BY 'password';

Lock

- ALTER USER 'username'@'hostname' ACCOUNT LOCK;

Drop a User

- DROP USER username;