

```
1  How to Install MySQL 5.7 on Ubuntu 20.04
2
3  Step 1: Add MySQL APT repository in Ubuntu
4      $ sudo apt update
5      $ sudo apt install wget
6      $ wget https://dev.mysql.com/get/mysql-apt-config_0.8.12-1_all.deb
7
8      $ sudo dpkg -i mysql-apt-config_0.8.12-1_all.deb
9      -In the prompt, choose Ubuntu Bionic and click Ok
10     -The next prompt shows MySQL 8.0 chosen by default. Choose the first option and click
      OK
11     -In the next prompt, select MySQL 5.7 server and click OK.
12     -The next prompt selects MySQL5.7 by default. Choose the last option Ok and click OK
13
14
15  Step 2: Update MySQL Repository on Ubuntu
16      Run the below command to update your system packages
17      $ sudo apt-get update
18
19      -Now search for MySQL 5,7 using apt-cache as shown below:
20
21      $ sudo apt-cache policy mysql-server
22      mysql-server:
23          Installed: (none)
24          Candidate: 8.0.26-0ubuntu0.20.04.2
25          Version table:
26              8.0.26-0ubuntu0.20.04.2 500
27                  500 http://kr.archive.ubuntu.com/ubuntu focal-updates/main amd64 Packages
28                  500 http://kr.archive.ubuntu.com/ubuntu focal-security/main amd64 Packages
29              8.0.19-0ubuntu5 500
30                  500 http://kr.archive.ubuntu.com/ubuntu focal/main amd64 Packages
31              5.7.35-1ubuntu18.04 500
32                  500 http://repo.mysql.com/apt/ubuntu bionic/mysql-5.7 amd64 Packages
33
34
35  Step 3: Install MySQL 5.7 on Ubuntu 20.04 Linux machine
36      -Having found MySQL 5.7 in our system, we are going to install MySQL 5.7 client, MySQL
      5.7 server with the below command:
37      $ sudo apt install -f mysql-client=5.7* mysql-community-server=5.7* mysql-server=5.7*
38
39      Reading package lists... Done
40      Building dependency tree
41      Reading state information... Done
42      Selected version '5.7.35-1ubuntu18.04' (MySQL:repo.mysql.com [amd64]) for
      'mysql-client'
43      Selected version '5.7.35-1ubuntu18.04' (MySQL:repo.mysql.com [amd64]) for
      'mysql-community-server'
44      Selected version '5.7.35-1ubuntu18.04' (MySQL:repo.mysql.com [amd64]) for
      'mysql-server'
45      The following additional packages will be installed:
46          libmecab2 libtinfo5 mysql-common mysql-community-client
47      The following NEW packages will be installed:
48          libmecab2 libtinfo5 mysql-client mysql-common mysql-community-client
          mysql-community-server mysql-server
49      0 upgraded, 7 newly installed, 0 to remove and 75 not upgraded.
50      Need to get 51.6 MB of archives.
51      After this operation, 315 MB of additional disk space will be used.
52      Do you want to continue? [Y/n] y
53
54      -Enter and re-enter root password when prompted
```

```
55      --mymysql
56
57
58 Step 4: Secure MySQL 5.7 Installation on Ubuntu 20.04
59 -Run the command below to secure MySQL
60 $ sudo mysql_secure_installation
61 Securing the MySQL server deployment.
62 Enter password for user root:
63
64 VALIDATE PASSWORD PLUGIN can be used to test passwords
65 and improve security. It checks the strength of password
66 and allows the users to set only those passwords which are
67 secure enough. Would you like to setup VALIDATE PASSWORD plugin?
68
69 Press y|Y for Yes, any other key for No: y
70
71 There are three levels of password validation policy:
72
73 LOW   Length >= 8
74 MEDIUM Length >= 8, numeric, mixed case, and special characters
75 STRONG Length >= 8, numeric, mixed case, special characters and dictionary
    file
76
77 Please enter 0 = LOW, 1 = MEDIUM and 2 = STRONG: 0
78 Using existing password for root.
79
80 Estimated strength of the password: 25
81 Change the password for root ? ((Press y|Y for Yes, any other key for No) : No
82
83 ... skipping.
84 By default, a MySQL installation has an anonymous user,
85 allowing anyone to log into MySQL without having to have
86 a user account created for them. This is intended only for
87 testing, and to make the installation go a bit smoother.
88 You should remove them before moving into a production
89 environment.
90
91 Remove anonymous users? (Press y|Y for Yes, any other key for No) : No
92
93 ... skipping.
94
95
96 Normally, root should only be allowed to connect from
97 'localhost'. This ensures that someone cannot guess at
98 the root password from the network.
99
100 Disallow root login remotely? (Press y|Y for Yes, any other key for No) : No
101
102 ... skipping.
103 By default, MySQL comes with a database named 'test' that
104 anyone can access. This is also intended only for testing,
105 and should be removed before moving into a production
106 environment.
107
108
109 Remove test database and access to it? (Press y|Y for Yes, any other key for No) : No
110
111 ... skipping.
112 Reloading the privilege tables will ensure that all changes
113 made so far will take effect immediately.
```

```
114
115 Reload privilege tables now? (Press y|Y for Yes, any other key for No) : y
116 Success.
117
118 All done!
119
120
121 Step 5: Check MySQL 5.7 version on Ubuntu 20.04
122 $ mysql
123 ERROR 1045 (28000): Access denied for user 'root'@'localhost' (using password: NO)
124
125 $ mysql -h localhost -u root -p
126 Enter password:
127
128 Welcome to the MySQL monitor. Commands end with ; or \g.
129 Your MySQL connection id is 5
130 Server version: 5.7.35 MySQL Community Server (GPL)
131
132 Copyright (c) 2000, 2021, Oracle and/or its affiliates.
133
134 Oracle is a registered trademark of Oracle Corporation and/or its
135 affiliates. Other names may be trademarks of their respective
136 owners.
137
138 Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
139
140 mysql>SELECT VERSION();
141
142
143 Step 6: Enable MySQL remote access
144 -By default, MySQL remote access is disabled.
145 -To enable it we need to edit mysqld.cnf file as below:
146
147 $ sudo nano /etc/mysql/mysql.conf.d/mysqld.cnf
148 Look for the line 'bind_address' and change as below:
149
150 # By default we only accept connections from localhost
151 #bind-address = 127.0.0.1
152 bind-address = 0.0.0.0
153
154 -Create root user
155 $ mysql -u root -p
156 Enter password:
157
158 mysql> CREATE USER 'root'@'%' IDENTIFIED BY 'mymysql';
159 ERROR 1819 (HY000): Your password does not satisfy the current policy requirements
160
161 mysql> CREATE USER 'root'@'%' IDENTIFIED BY 'P@$W0rd';
162 Query OK, 0 rows affected (0.01 sec)
163
164 mysql> GRANT ALL PRIVILEGES ON *.* TO 'root'@'%' WITH GRANT OPTION;
165 Query OK, 0 rows affected (0.02 sec)
166
167 mysql> FLUSH PRIVILEGES;
168 Query OK, 0 rows affected (0.02 sec)
169
170 -Save the file and restart mysql
171
172 $ sudo systemctl restart mysql
173 $ sudo systemctl enable mysql
```

```
174     $ sudo systemctl status mysql
175
176 -Allow remote connections through the firewall
177
178     $ sudo ufw allow from <remote_IP_address> to any port 3306
179     $ sudo ufw enable
180
181 -To access the database from a remote machine, run the following command:
182
183     $ mysql -u user -h database_server_ip -p
184
185 You have successfully installed MySQL 5.7 on Ubuntu 20.04.
```