**■ MENU** 

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# Debian Linux Install MySQL Database Server

by VIVEK GITE on JANUARY 23, 2012 last updated NOVEMBER 13, 2013 in DEBIAN / UBUNTU, MYSQL, PACKAGE MANAGEMENT

ow do I install mysql database server on Debian Linux operating system running on an HP server? How do I install MySQL on Debian or Ubuntu server?



MySQL is a powerful and popular database management system for Linux and Unix like operating systems. You need to install the following packages on Debian:

- 1. mysql-server Install the latest stable MySQL database server binaries and system database setup on Debian.
- 2. mysql-client Install the latest stable MySQL database client binaries.

# Installing MySQL server+client on Debian Linux

First, you need to type the following <u>apt-get command</u> or aptitude command to bring Debian to up to date state:

# aptitude update && aptitude upgrade

#### OR

# apt-get update && apt-get upgrade

# Install MySQL

Open a terminal or login to the remote server using ssh client. Type the following <u>apt-get</u> <u>command</u> to install the MySQL:

# apt-get install mysql-server mysql-client

#### Sample outputs:

Reading package lists... Done
Building dependency tree
Reading state information... Done

```
The following packages were automatically installed and are no longer re
  libxcb-render-util0-dev xulrunner-1.9.1 libxcb-render-util0
Use 'apt-get autoremove' to remove them.
Selecting previously deselected package libnet-daemon-perl.
(Reading database ... 159847 files and directories currently installed.)
Unpacking libnet-daemon-perl (from .../libnet-daemon-perl_0.43-1_all.deb
Selecting previously deselected package libplrpc-perl.
Unpacking libplrpc-perl (from .../libplrpc-perl_0.2020-2_all.deb) ...
Selecting previously deselected package libdbi-perl.
Unpacking libdbi-perl (from .../libdbi-perl 1.612-1 amd64.deb) ...
Selecting previously deselected package libdbd-mysql-perl.
Unpacking libdbd-mysql-perl (from .../libdbd-mysql-perl 4.016-1 amd64.de
Selecting previously deselected package mysql-client-5.1.
Unpacking mysql-client-5.1 (from .../mysql-client-5.1_5.1.49-3_amd64.deb
Selecting previously deselected package mysql-server-core-5.1.
Unpacking mysql-server-core-5.1 (from .../mysql-server-core-5.1_5.1.49-3
, . . .
```

During installation you will be promoted to setup a password for mysgl admin "root" user:







Fig:01: Setting up admin root Fig.02: Setup root password Fig.03: Installation completed user password

Warning: if you are not asked to input MySQL root user's password during installation, type the following command to set/change MySQL root user's password on Debian Linux:

mysqladmin -u root password NEWPASSWORDNameHere

# How Do I Start / Stop / Restart MySQL Server?

MySql will start on boot time. You can also type the following commands as root user to start / stop / restart the server:

```
# /etc/init.d/mysql start
# /etc/init.d/mysql stop
# /etc/init.d/mysql restart
# /etc/init.d/mysql status
```

#### OR

```
# service mysql start
# service mysql stop
# service mysql restart
# service mysql status
```

# MySQL server configuration

The MySQL database server configuration file is located at /etc/mysql/my.cnf. Edit the file using a text editor such as vi, type:

```
# vi /etc/mysql/my.cnf
```

#### Sample outputs:

```
# The MySQL database server configuration file.
# You can copy this to one of:
# - "/etc/mysql/my.cnf" to set global options,
\# - "~/.my.cnf" to set user-specific options.
\ensuremath{\sharp} One can use all long options that the program supports.
# Run program with --help to get a list of available options and with
# --print-defaults to see which it would actually understand and use.
# For explanations see
# http://dev.mysql.com/doc/mysql/en/server-system-variables.html
# This will be passed to all mysql clients
# It has been reported that passwords should be enclosed with ticks/quotes
# escpecially if they contain "#" chars...
# Remember to edit /etc/mysql/debian.cnf when changing the socket location.
[client]
port
                = 3306
socket
              = /var/run/mysqld/mysqld.sock
# Here is entries for some specific programs
\# The following values assume you have at least 32M ram
# This was formally known as [safe mysqld]. Both versions are currently parsed.
[mysqld_safe]
socket
                = /var/run/mysqld/mysqld.sock
                = 0
nice
[mysqld]
# * Basic Settings
               = mysql
pid-file = /var/run/mysqld/mysqld.pid
socket
               = /var/run/mysqld/mysqld.sock
               = 3306
port
basedir
              = /usr
               = /var/lib/mysql
               = /tmp
tmpdir
               = /usr/share/mysql/english
skip-external-locking
# Instead of skip-networking the default is now to listen only on
\ensuremath{\sharp} localhost which is more compatible and is not less secure.
                       = 127.0.0.1
# * Fine Tuning
key_buffer
                       = 16M
max_allowed_packet
                      = 16M
                   = 192K
thread_stack
thread_cache_size
# This replaces the startup script and checks MyISAM tables if needed
```

```
# the first time they are touched
myisam-recover = BACKUP
                        = 100
#max connections
                        = 64
#table_cache
#thread_concurrency = 10
# * Query Cache Configuration
query_cache_limit
                       = 16M
query_cache_size
# * Logging and Replication
# Both location gets rotated by the cronjob.
\ensuremath{\mathtt{\#}} Be aware that this log type is a performance killer.
# As of 5.1 you can enable the log at runtime!
#general_log_file = /var/log/mysql/mysql.log
#general_log
                         = 1
# Error logging goes to syslog due to /etc/mysql/conf.d/mysqld_safe_syslog.cnf.
\ensuremath{\mbox{\#}} Here you can see queries with especially long duration
#log_slow_queries
                       = /var/log/mysql/mysql-slow.log
\#long\_query\_time = 2
#log-queries-not-using-indexes
# The following can be used as easy to replay backup logs or for replication.
# note: if you are setting up a replication slave, see README.Debian about
     other settings you may need to change.
                       = 1
                                = /var/log/mysgl/mysgl-bin.log
#log bin
expire_logs_days = 10
max_binlog_size = 100M
thinlog_do_db = includes
#binlog_do_db
                        = include_database_name
#binlog_ignore_db
                        = include_database_name
# * InnoDB
\mbox{\tt\#} InnoDB is enabled by default with a 10MB datafile in /var/lib/mysql/.
# Read the manual for more InnoDB related options. There are many!
# * Security Features
# Read the manual, too, if you want chroot!
# chroot = /var/lib/mysql/
# For generating SSL certificates I recommend the OpenSSL GUI "tinyca".
# ssl-ca=/etc/mysql/cacert.pem
# ssl-cert=/etc/mvsgl/server-cert.pem
# ssl-key=/etc/mysql/server-key.pem
[mysqldump]
quote-names
max_allowed_packet = 16M
#no-auto-rehash # faster start of mysql but no tab completition
[isamchk]
key_buffer
                        = 16M
# * IMPORTANT: Additional settings that can override those from this file!
   The files must end with '.cnf', otherwise they'll be ignored.
!includedir /etc/mysql/conf.d/
```

# How do I connect to MySQL server?

Type the following command:

```
$ mysql -u root -p
```

#### Sample outputs:

#### Enter password:

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 37

Server version: 5.1.49-3 (Debian)

Copyright (c) 2000, 2010, Oracle and/or its affiliates. All rights reser This software comes with ABSOLUTELY NO WARRANTY. This is free software, and you are welcome to modify and redistribute it under the GPL v2 licen Type 'help;' or '\h' for help. Type '\c' to clear the current input stat mysql>

#### Where,

- -u root: Login as admin root user.
- -p: Prompt for root user password.

#### What next?

See <u>how to setup a MySQL new user accounts</u> and <u>create a database/table to store your data</u> for more information.

#### See also

■ Man pages: mysql(1), mysqld(8), apt-get(8)

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{ 3 comments... add one }

Vamsi February 6, 2012, 12:14 pm

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