

Mariadb

```
[root@server0 ~]#  
[root@server0 ~]# hostname  
server0.example.com  
[root@server0 ~]#  
[root@server0 ~]# ifconfig  
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu  
1500  
        inet 172.25.0.11  netmask 255.255.255.0  
broadcast 172.25.0.255  
        inet6 fe80::5054:ff:fe00:b  prefixlen 64  scopeid  
0x20<link>  
        ether 52:54:00:00:00:0b  txqueuelen 1000  
(Ethernet)  
        RX packets 1223  bytes 6422010 (6.1 MiB)  
        RX errors 0  dropped 0  overruns 0  frame 0  
        TX packets 623  bytes 48466 (47.3 KiB)  
        TX errors 0  dropped 0 overruns 0  carrier 0  
collisions 0  
  
lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536  
        inet 127.0.0.1  netmask 255.0.0.0  
        inet6 ::1  prefixlen 128  scopeid 0x10<host>  
        loop  txqueuelen 0  (Local Loopback)  
        RX packets 12  bytes 976 (976.0 B)  
        RX errors 0  dropped 0  overruns 0  frame 0  
        TX packets 12  bytes 976 (976.0 B)  
        TX errors 0  dropped 0 overruns 0  carrier 0
```

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collisions 0

```
[root@server0 ~]# yum repolist
```

Loaded plugins: langpacks

repo id	status	repo name
rhel_dvd	4,305	Remote classroom copy of dvd

repolist: 4,305

```
[root@server0 ~]#
```

```
[root@server0 ~]# yum install mariadb* -y
```

Loaded plugins: langpacks

Package 1:mariadb-libs-5.5.35-3.el7.x86_64 already installed and latest version

Resolving Dependencies

--> Running transaction check

---> Package mariadb.x86_64 1:5.5.35-3.el7 will be installed

---> Package mariadb-bench.x86_64 1:5.5.35-3.el7 will be installed

--> Processing Dependency: perl(DBI) for package:
1:mariadb-bench-5.5.35-3.el7.x86_64

--> Processing Dependency: perl(Data::Dumper) for
package: 1:mariadb-bench-5.5.35-3.el7.x86_64

--> Processing Dependency: perl(GD) for package:
1:mariadb-bench-5.5.35-3.el7.x86_64

---> Package mariadb-devel.x86_64 1:5.5.35-3.el7 will be installed

--> Processing Dependency: openssl-devel(x86-64) for
package: 1:mariadb-devel-5.5.35-3.el7.x86_64

---> Package mariadb-server.x86_64 1:5.5.35-3.el7 will be installed

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```
--> Processing Dependency: perl-DBD-MySQL for package:
1:mariadb-server-5.5.35-3.el7.x86_64
---> Package mariadb-test.x86_64 1:5.5.35-3.el7 will be
installed
--> Processing Dependency: perl(Env) for package:
1:mariadb-test-5.5.35-3.el7.x86_64
--> Processing Dependency: perl(Test::More) for package:
1:mariadb-test-5.5.35-3.el7.x86_64
--> Processing Dependency: perl(Time::HiRes) for package:
1:mariadb-test-5.5.35-3.el7.x86_64
--> Running transaction check
---> Package openssl-devel.x86_64 1:1.0.1e-34.el7 will be
installed
--> Processing Dependency: krb5-devel(x86-64) for
package: 1:openssl-devel-1.0.1e-34.el7.x86_64
--> Processing Dependency: zlib-devel(x86-64) for
package: 1:openssl-devel-1.0.1e-34.el7.x86_64
---> Package perl-DBD-MySQL.x86_64 0:4.023-5.el7 will be
installed
---> Package perl-DBI.x86_64 0:1.627-4.el7 will be
installed
--> Processing Dependency: perl(RPC::PlClient) >= 0.2000
for package: perl-DBI-1.627-4.el7.x86_64
--> Processing Dependency: perl(RPC::PlServer) >= 0.2001
for package: perl-DBI-1.627-4.el7.x86_64
---> Package perl-Data-Dumper.x86_64 0:2.145-3.el7 will
be installed
---> Package perl-Env.noarch 0:1.04-2.el7 will be
installed
---> Package perl-GD.x86_64 0:2.49-3.el7 will be
installed
---> Package perl-Test-Simple.noarch 0:0.98-243.el7 will
```

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be installed

--> Processing Dependency: perl(Test::Harness) >= 2.03
for package: perl-Test-Simple-0.98-243.el7.noarch

---> Package perl-Time-HiRes.x86_64 4:1.9725-3.el7 will
be installed

--> Running transaction check

---> Package krb5-devel.x86_64 0:1.11.3-49.el7 will be
installed

--> Processing Dependency: keyutils-libs-devel for
package: krb5-devel-1.11.3-49.el7.x86_64

--> Processing Dependency: libcom_err-devel for package:
krb5-devel-1.11.3-49.el7.x86_64

--> Processing Dependency: libselinux-devel for package:
krb5-devel-1.11.3-49.el7.x86_64

--> Processing Dependency: libverto-devel for package:
krb5-devel-1.11.3-49.el7.x86_64

---> Package perl-PlRPC.noarch 0:0.2020-14.el7 will be
installed

--> Processing Dependency: perl(Net::Daemon) >= 0.13 for
package: perl-PlRPC-0.2020-14.el7.noarch

--> Processing Dependency: perl(Compress::Zlib) for
package: perl-PlRPC-0.2020-14.el7.noarch

--> Processing Dependency: perl(Net::Daemon::Log) for
package: perl-PlRPC-0.2020-14.el7.noarch

--> Processing Dependency: perl(Net::Daemon::Test) for
package: perl-PlRPC-0.2020-14.el7.noarch

---> Package perl-Test-Harness.noarch 0:3.28-2.el7 will
be installed

---> Package zlib-devel.x86_64 0:1.2.7-13.el7 will be
installed

--> Running transaction check

---> Package keyutils-libs-devel.x86_64 0:1.5.8-3.el7

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will be installed

---> Package libcom_err-devel.x86_64 0:1.42.9-4.el7 will be installed

---> Package libselinux-devel.x86_64 0:2.2.2-6.el7 will be installed

--> Processing Dependency: libsepol-devel >= 2.1.9-1 for package: libselinux-devel-2.2.2-6.el7.x86_64

--> Processing Dependency: pkgconfig(libpcre) for package: libselinux-devel-2.2.2-6.el7.x86_64

--> Processing Dependency: pkgconfig(libsepol) for package: libselinux-devel-2.2.2-6.el7.x86_64

---> Package libverto-devel.x86_64 0:0.2.5-4.el7 will be installed

---> Package perl-IO-Compress.noarch 0:2.061-2.el7 will be installed

--> Processing Dependency: perl(Compress::Raw::Bzip2) >= 2.061 for package: perl-IO-Compress-2.061-2.el7.noarch

--> Processing Dependency: perl(Compress::Raw::Zlib) >= 2.061 for package: perl-IO-Compress-2.061-2.el7.noarch

---> Package perl-Net-Daemon.noarch 0:0.48-5.el7 will be installed

--> Running transaction check

---> Package libsepol-devel.x86_64 0:2.1.9-3.el7 will be installed

---> Package pcre-devel.x86_64 0:8.32-12.el7 will be installed

---> Package perl-Compress-Raw-Bzip2.x86_64 0:2.061-3.el7 will be installed

---> Package perl-Compress-Raw-Zlib.x86_64 1:2.061-4.el7 will be installed

--> Finished Dependency Resolution

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Dependencies Resolved

```
=====
```

Package	Repository	Size	Arch	Version
=====				
Installing:				
mariadb	rhel_dvd	8.9 M	x86_64	1:5.5.35-3.el7
mariadb-bench	rhel_dvd	385 k	x86_64	1:5.5.35-3.el7
mariadb-devel	rhel_dvd	743 k	x86_64	1:5.5.35-3.el7
mariadb-server	rhel_dvd	11 M	x86_64	1:5.5.35-3.el7
mariadb-test	rhel_dvd	7.9 M	x86_64	1:5.5.35-3.el7
Installing for dependencies:				
keyutils-libs-devel	rhel_dvd	37 k	x86_64	1.5.8-3.el7
krb5-devel	rhel_dvd	611 k	x86_64	1.11.3-49.el7
libcom_err-devel	rhel_dvd	30 k	x86_64	1.42.9-4.el7
libselinux-devel	rhel_dvd	174 k	x86_64	2.2.2-6.el7
libsepol-devel	rhel_dvd	71 k	x86_64	2.1.9-3.el7
libverto-devel	rhel_dvd	12 k	x86_64	0.2.5-4.el7

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openssl-devel		x86_64	1:1.0.1e-34.el7
rhel_dvd	1.2 M		
pcrc-devel		x86_64	8.32-12.el7
rhel_dvd	477 k		
perl-Compress-Raw-Bzip2		x86_64	2.061-3.el7
rhel_dvd	32 k		
perl-Compress-Raw-Zlib		x86_64	1:2.061-4.el7
rhel_dvd	57 k		
perl-DBD-MySQL		x86_64	4.023-5.el7
rhel_dvd	140 k		
perl-DBI		x86_64	1.627-4.el7
rhel_dvd	802 k		
perl-Data-Dumper		x86_64	2.145-3.el7
rhel_dvd	47 k		
perl-Env		noarch	1.04-2.el7
rhel_dvd	16 k		
perl-GD		x86_64	2.49-3.el7
rhel_dvd	173 k		
perl-IO-Compress		noarch	2.061-2.el7
rhel_dvd	260 k		
perl-Net-Daemon		noarch	0.48-5.el7
rhel_dvd	51 k		
perl-PiRPC		noarch	0.2020-14.el7
rhel_dvd	36 k		
perl-Test-Harness		noarch	3.28-2.el7
rhel_dvd	302 k		
perl-Test-Simple		noarch	0.98-243.el7
rhel_dvd	170 k		
perl-Time-HiRes		x86_64	4:1.9725-3.el7
rhel_dvd	45 k		
zlib-devel		x86_64	1.2.7-13.el7
rhel_dvd	49 k		

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Transaction Summary

=====

Install 5 Packages (+22 Dependent packages)

Total download size: 33 M

Installed size: 244 M

Downloading packages:

(1/27): keyutils-libs-devel-1.5.8-3.el7.x86_64.rpm
| 37 kB 00:00
(2/27): libcom_err-devel-1.42.9-4.el7.x86_64.rpm
| 30 kB 00:00
(3/27): libselinux-devel-2.2.2-6.el7.x86_64.rpm
| 174 kB 00:00
(4/27): krb5-devel-1.11.3-49.el7.x86_64.rpm
| 611 kB 00:00
(5/27): libverto-devel-0.2.5-4.el7.x86_64.rpm
| 12 kB 00:00
(6/27): libsepol-devel-2.1.9-3.el7.x86_64.rpm
| 71 kB 00:00
(7/27): mariadb-bench-5.5.35-3.el7.x86_64.rpm
| 385 kB 00:00
(8/27): mariadb-devel-5.5.35-3.el7.x86_64.rpm
| 743 kB 00:00
(9/27): mariadb-5.5.35-3.el7.x86_64.rpm
| 8.9 MB 00:02
(10/27): mariadb-server-5.5.35-3.el7.x86_64.rpm
| 11 MB 00:02
(11/27): openssl-devel-1.0.1e-34.el7.x86_64.rpm
| 1.2 MB 00:00
(12/27): pcre-devel-8.32-12.el7.x86_64.rpm

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| 477 kB    00:00
(13/27): mariadb-test-5.5.35-3.el7.x86_64.rpm
| 7.9 MB    00:01
(14/27): perl-Compress-Raw-Bzip2-2.061-3.el7.x86_64.rpm
| 32 kB     00:00
(15/27): perl-Compress-Raw-Zlib-2.061-4.el7.x86_64.rpm
| 57 kB     00:00
(16/27): perl-DBD-MySQL-4.023-5.el7.x86_64.rpm
| 140 kB    00:00
(17/27): perl-Data-Dumper-2.145-3.el7.x86_64.rpm
| 47 kB     00:00
(18/27): perl-Env-1.04-2.el7.noarch.rpm
| 16 kB     00:00
(19/27): perl-GD-2.49-3.el7.x86_64.rpm
| 173 kB    00:00
(20/27): perl-DBI-1.627-4.el7.x86_64.rpm
| 802 kB    00:00
(21/27): perl-Net-Daemon-0.48-5.el7.noarch.rpm
| 51 kB     00:00
(22/27): perl-IO-Compress-2.061-2.el7.noarch.rpm
| 260 kB    00:00
(23/27): perl-PlRPC-0.2020-14.el7.noarch.rpm
| 36 kB     00:00
(24/27): perl-Test-Simple-0.98-243.el7.noarch.rpm
| 170 kB    00:00
(25/27): perl-Time-HiRes-1.9725-3.el7.x86_64.rpm
| 45 kB     00:00
(26/27): perl-Test-Harness-3.28-2.el7.noarch.rpm
| 302 kB    00:00
(27/27): zlib-devel-1.2.7-13.el7.x86_64.rpm
| 49 kB     00:00
```

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```
-----  
Total 4.6  
MB/s | 33 MB 00:07  
Running transaction check  
Running transaction test  
Transaction test succeeded  
Running transaction  
  Installing : perl-Data-Dumper-2.145-3.el7.x86_64  
                1/27  
  Installing : 1:mariadb-5.5.35-3.el7.x86_64  
                2/27  
  Installing : perl-Net-Daemon-0.48-5.el7.noarch  
                3/27  
  Installing : zlib-devel-1.2.7-13.el7.x86_64  
                4/27  
  Installing :  
1:perl-Compress-Raw-Zlib-2.061-4.el7.x86_64  
  5/27  
  Installing : perl-Compress-Raw-Bzip2-2.061-3.el7.x86_64  
                6/27  
  Installing : perl-IO-Compress-2.061-2.el7.noarch  
                7/27  
  Installing : perl-PlRPC-0.2020-14.el7.noarch  
                8/27  
  Installing : perl-DBI-1.627-4.el7.x86_64  
                9/27  
  Installing : perl-DBD-MySQL-4.023-5.el7.x86_64  
                10/27  
  Installing : 1:mariadb-server-5.5.35-3.el7.x86_64  
                11/27  
  Installing : libcom_err-devel-1.42.9-4.el7.x86_64  
                12/27
```

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Installing : pcre-devel-8.32-12.el7.x86_64
13/27

Installing : perl-Test-Harness-3.28-2.el7.noarch
14/27

Installing : perl-Test-Simple-0.98-243.el7.noarch
15/27

Installing : libverto-devel-0.2.5-4.el7.x86_64
16/27

Installing : perl-GD-2.49-3.el7.x86_64
17/27

Installing : perl-Env-1.04-2.el7.noarch
18/27

Installing : 4:perl-Time-HiRes-1.9725-3.el7.x86_64
19/27

Installing : libsepol-devel-2.1.9-3.el7.x86_64
20/27

Installing : libselinux-devel-2.2.2-6.el7.x86_64
21/27

Installing : keyutils-libs-devel-1.5.8-3.el7.x86_64
22/27

Installing : krb5-devel-1.11.3-49.el7.x86_64
23/27

Installing : 1:openssl-devel-1.0.1e-34.el7.x86_64
24/27

Installing : 1:mariadb-devel-5.5.35-3.el7.x86_64
25/27

Installing : 1:mariadb-test-5.5.35-3.el7.x86_64
26/27

Installing : 1:mariadb-bench-5.5.35-3.el7.x86_64
27/27

Verifying : keyutils-libs-devel-1.5.8-3.el7.x86_64
1/27

Mariadb

Verifying : libsepol-devel-2.1.9-3.el7.x86_64
2/27

Verifying : 4:perl-Time-HiRes-1.9725-3.el7.x86_64
3/27

Verifying : perl-IO-Compress-2.061-2.el7.noarch
4/27

Verifying : 1:mariadb-devel-5.5.35-3.el7.x86_64
5/27

Verifying : 1:mariadb-5.5.35-3.el7.x86_64
6/27

Verifying : perl-Env-1.04-2.el7.noarch
7/27

Verifying : perl-Test-Simple-0.98-243.el7.noarch
8/27

Verifying : perl-GD-2.49-3.el7.x86_64
9/27

Verifying : libverto-devel-0.2.5-4.el7.x86_64
10/27

Verifying : perl-Test-Harness-3.28-2.el7.noarch
11/27

Verifying : 1:mariadb-test-5.5.35-3.el7.x86_64
12/27

Verifying : pcre-devel-8.32-12.el7.x86_64
13/27

Verifying : perl-DBI-1.627-4.el7.x86_64
14/27

Verifying : libcom_err-devel-1.42.9-4.el7.x86_64
15/27

Verifying : libselinux-devel-2.2.2-6.el7.x86_64
16/27

Verifying : perl-Data-Dumper-2.145-3.el7.x86_64
17/27

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Verifying : 1:mariadb-server-5.5.35-3.el7.x86_64
18/27

Verifying : perl-Compress-Raw-Bzip2-2.061-3.el7.x86_64
19/27

Verifying : perl-DBD-MySQL-4.023-5.el7.x86_64
20/27

Verifying :

1:perl-Compress-Raw-Zlib-2.061-4.el7.x86_64
21/27

Verifying : zlib-devel-1.2.7-13.el7.x86_64
22/27

Verifying : perl-Net-Daemon-0.48-5.el7.noarch
23/27

Verifying : perl-PlRPC-0.2020-14.el7.noarch
24/27

Verifying : 1:mariadb-bench-5.5.35-3.el7.x86_64
25/27

Verifying : 1:openssl-devel-1.0.1e-34.el7.x86_64
26/27

Verifying : krb5-devel-1.11.3-49.el7.x86_64
27/27

Installed:

mariadb.x86_64 1:5.5.35-3.el7
mariadb-bench.x86_64 1:5.5.35-3.el7
mariadb-devel.x86_64 1:5.5.35-3.el7
mariadb-server.x86_64 1:5.5.35-3.el7
mariadb-test.x86_64 1:5.5.35-3.el7

Dependency Installed:

keyutils-libs-devel.x86_64 0:1.5.8-3.el7

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krb5-devel.x86_64 0:1.11.3-49.el7

libcom_err-devel.x86_64 0:1.42.9-4.el7

libselinux-devel.x86_64 0:2.2.2-6.el7

libsepol-devel.x86_64 0:2.1.9-3.el7

libverto-devel.x86_64 0:0.2.5-4.el7

openssl-devel.x86_64 1:1.0.1e-34.el7

pcre-devel.x86_64 0:8.32-12.el7

perl-Compress-Raw-Bzip2.x86_64 0:2.061-3.el7

perl-Compress-Raw-Zlib.x86_64 1:2.061-4.el7

perl-DBD-MySQL.x86_64 0:4.023-5.el7

perl-DBI.x86_64 0:1.627-4.el7

perl-Data-Dumper.x86_64 0:2.145-3.el7

perl-Env.noarch 0:1.04-2.el7

perl-GD.x86_64 0:2.49-3.el7

perl-IO-Compress.noarch 0:2.061-2.el7

perl-Net-Daemon.noarch 0:0.48-5.el7

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perl-PlRPC.noarch 0:0.2020-14.el7

perl-Test-Harness.noarch 0:3.28-2.el7

perl-Test-Simple.noarch 0:0.98-243.el7

perl-Time-HiRes.x86_64 4:1.9725-3.el7

zlib-devel.x86_64 0:1.2.7-13.el7

Complete!

```
[root@server0 ~]#
```

```
[root@server0 ~]#
```

```
[root@server0 ~]#
```

```
[root@server0 ~]#
```

```
[root@server0 ~]# systemctl start mariadb
```

```
[root@server0 ~]#
```

```
[root@server0 ~]# systemctl enable mariadb
```

```
ln -s '/usr/lib/systemd/system/mariadb.service'
```

```
'/etc/systemd/system/multi-user.target.wants/mariadb.serv  
ice'
```

```
[root@server0 ~]#
```

```
[root@server0 ~]#
```

```
[root@server0 ~]# netstat -tunlp | grep 3306
```

```
tcp          0      0 0.0.0.0:3306          0.0.0.0:*
```

```
LISTEN      2841/mysqld
```

```
[root@server0 ~]#
```

```
[root@server0 ~]#
```

```
[root@server0 ~]# systemctl status iptables
```

```
iptables.service - IPv4 firewall with iptables
```

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```
Loaded: loaded
(/usr/lib/systemd/system/iptables.service; disabled)
Active: inactive (dead)
```

```
[root@server0 ~]#
[root@server0 ~]# systemctl status firewalld
firewalld.service - firewalld - dynamic firewall daemon
  Loaded: loaded
  (/usr/lib/systemd/system/firewalld.service; enabled)
  Active: active (running) since Fri 2018-05-11 01:47:20
IST; 22min ago
    Main PID: 470 (firewalld)
      CGroup: /system.slice/firewalld.service
              └─470 /usr/bin/python -Es /usr/sbin/firewalld
--nofork --nopid
```

```
May 11 01:47:20 localhost systemd[1]: Started firewalld -
dynamic firewall ...n.
```

```
Hint: Some lines were ellipsized, use -l to show in full.
```

```
[root@server0 ~]#
[root@server0 ~]# firewall-cmd --list-services
dhcpv6-client ssh
```

```
[root@server0 ~]#
[root@server0 ~]# firewall-cmd --permanent
--add-service=mysql
success
[root@server0 ~]#
[root@server0 ~]# firewall-cmd --reload
success
[root@server0 ~]#
[root@server0 ~]# firewall-cmd --list-services
```


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```
dhcpv6-client mysql ssh
[root@server0 ~]# cat /etc/my.cnf

[root@server0 ~]# which mysql
/usr/bin/mysql
[root@server0 ~]#
[root@server0 ~]# rpm -qa mariadb
mariadb-5.5.35-3.el7.x86_64
[root@server0 ~]#
```

How to login in Database ?

```
[root@server0 ~]#
[root@server0 ~]# mysql -u root
Welcome to the MariaDB monitor.  Commands end with ; or
\g.
Your MariaDB connection id is 2
Server version: 5.5.35-MariaDB MariaDB Server
```

Copyright (c) 2000, 2013, Oracle, Monty Program Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
MariaDB [(none)]>
MariaDB [(none)]> exit;
Bye
[root@server0 ~]# mysql
Welcome to the MariaDB monitor.  Commands end with ; or
\g.
```

Mariadb

Your MariaDB connection id is 3

Server version: 5.5.35-MariaDB MariaDB Server

Copyright (c) 2000, 2013, Oracle, Monty Program Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> exit

Bye

[root@server0 ~]#

How to set database password for super user ?

```
[root@server0 ~]# mysql_secure_installation
/usr/bin/mysql_secure_installation: line 379:
find_mysql_client: command not found
```

NOTE: RUNNING ALL PARTS OF THIS SCRIPT IS RECOMMENDED FOR ALL MariaDB

SERVICES IN PRODUCTION USE! PLEASE READ EACH STEP CAREFULLY!

In order to log into MariaDB to secure it, we'll need the current

password for the root user. If you've just installed MariaDB, and

you haven't set the root password yet, the password will be blank,

so you should just press enter here.

Mariadb

Enter current password for root (enter for none):
OK, successfully used password, moving on...

Setting the root password ensures that nobody can log into the MariaDB root user without the proper authorisation.

Set root password? [Y/n] y
New password:
Re-enter new password:
Password updated successfully!
Reloading privilege tables..
... Success!

By default, a MariaDB installation has an anonymous user, allowing anyone to log into MariaDB without having to have a user account created for them. This is intended only for testing, and to make the installation go a bit smoother. You should remove them before moving into a production environment.

Remove anonymous users? [Y/n] y
... Success!

Normally, root should only be allowed to connect from 'localhost'. This ensures that someone cannot guess at the root password

Mariadb

from the network.

```
Disallow root login remotely? [Y/n] y
... Success!
```

By default, MariaDB comes with a database named 'test' that anyone can access. This is also intended only for testing, and should be removed before moving into a production environment.

```
Remove test database and access to it? [Y/n] y
- Dropping test database...
... Success!
- Removing privileges on test database...
... Success!
```

Reloading the privilege tables will ensure that all changes made so far will take effect immediately.

```
Reload privilege tables now? [Y/n] y
... Success!
```

Cleaning up...

All done! If you've completed all of the above steps, your MariaDB installation should now be secure.

Thanks for using MariaDB!
[root@server0 ~]#

Mariadb

```
[root@server0 ~]# mysql -u root
ERROR 1045 (28000): Access denied for user
'root'@'localhost' (using password: NO)
[root@server0 ~]# mysql
ERROR 1045 (28000): Access denied for user
'root'@'localhost' (using password: NO)
[root@server0 ~]#
[root@server0 ~]# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or
\g.
Your MariaDB connection id is 14
Server version: 5.5.35-MariaDB MariaDB Server
```

Copyright (c) 2000, 2013, Oracle, Monty Program Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
MariaDB [(none)]>
MariaDB [(none)]> show databases;
```

```
+-----+
| Database                |
+-----+
| information_schema      |
| mysql                   |
| performance_schema     |
+-----+
3 rows in set (0.00 sec)
```

```
MariaDB [(none)]> create database inventory;
```

Mariadb

Query OK, 1 row affected (0.00 sec)

MariaDB [(none)]>

MariaDB [(none)]> create database redhat;

Query OK, 1 row affected (0.00 sec)

MariaDB [(none)]>

MariaDB [(none)]> show databases;

Database
information_schema
inventory
mysql
performance_schema
redhat

5 rows in set (0.00 sec)

MariaDB [(none)]> drop database redhat;

Query OK, 0 rows affected (0.00 sec)

MariaDB [(none)]> show databases;

Database
information_schema
inventory
mysql
performance_schema

4 rows in set (0.00 sec)

Mariadb

```
MariaDB [(none)]> exit;  
Bye  
[root@server0 ~]#  
[root@server0 ~]#
```

How to download any dump file and import it into any database ?

```
[root@server0 ~]# wget  
http://classroom.example.com/mariadb.dump  
  
--2018-05-11 02:34:11--  
http://classroom.example.com/mariadb.dump  
Resolving classroom.example.com  
(classroom.example.com)... 172.25.254.254  
Connecting to classroom.example.com  
(classroom.example.com)|172.25.254.254|:80... connected.  
HTTP request sent, awaiting response... 200 OK  
Length: 3785 (3.7K)  
Saving to: 'mariadb.dump'  
  
100%[=====>] 3,785  
--.-K/s in 0s  
  
2018-05-11 02:34:11 (745 MB/s) - 'mariadb.dump' saved  
[3785/3785]  
  
[root@server0 ~]#  
[root@server0 ~]# ls
```

```

                                Mariadb
anaconda-ks.cfg Documents mariadb.dump Pictures
Templates
Desktop Downloads Music Public
Videos
[root@server0 ~]#
```

```

[root@server0 ~]# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or
\g.
Your MariaDB connection id is 16
Server version: 5.5.35-MariaDB MariaDB Server
```

Copyright (c) 2000, 2013, Oracle, Monty Program Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```

MariaDB [(none)]>
MariaDB [(none)]> show databases;
+-----+
| Database                |
+-----+
| information_schema      |
| inventory               |
| mysql                   |
| performance_schema     |
+-----+
4 rows in set (0.00 sec)
```


Mariadb

```
MariaDB [(none)]>
MariaDB [(none)]>
MariaDB [(none)]> use    inventory;
Database changed
MariaDB [inventory]>
MariaDB [inventory]> source    /root/mariadb.dump;
Query OK, 0 rows affected (0.00 sec)
```

Query OK, 0 rows affected (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

.....

.....

.....

```
MariaDB [inventory]>
MariaDB [inventory]> show tables;
```

```
+-----+
| Tables_in_inventory |
```

```
+-----+
| category             |
| manufacturer         |
| product              |
```

```
+-----+
```

3 rows in set (0.00 sec)

```
MariaDB [inventory]>
MariaDB [inventory]>
MariaDB [inventory]> select *    from    category;
```

```
+----+-----+
| id | name      |
```

Mariadb

```
+-----+-----+
|  1 | Networking |
|  2 | Servers    |
|  3 | Ssd        |
+-----+-----+
```

3 rows in set (0.00 sec)

MariaDB [inventory]> select * from product;

```
+-----+-----+-----+-----+-----+
+-----+
| id | name                | price  | stock | id_category |
| id_manufacturer |
+-----+-----+-----+-----+-----+
+-----+
|  1 | ThinkServer TS140 4 | 539.88 | 20    | 2           |
|  2 | ThinkServer RD630 4 | 2379.14 | 20    | 2           |
|  3 | RT-AC68U          3 | 219.99 | 10    | 1           |
|  4 | X110 64GB         1 | 73.84  | 100   | 3           |
+-----+-----+-----+-----+-----+
```

4 rows in set (0.00 sec)

MariaDB [inventory]> select name from product;

```
+-----+
| name                |
+-----+
| ThinkServer TS140 4 |
| ThinkServer RD630 4 |
| RT-AC68U          3 |
+-----+
```

Mariadb

```
| X110 64GB |
```

```
+-----+
```

4 rows in set (0.00 sec)

MariaDB [inventory]>

MariaDB [inventory]> select name,price from
product;

```
+-----+-----+
```

```
| name | price |
```

```
+-----+-----+
```

```
| ThinkServer TS140 | 539.88 |
```

```
| ThinkServer RD630 | 2379.14 |
```

```
| RT-AC68U | 219.99 |
```

```
| X110 64GB | 73.84 |
```

```
+-----+-----+
```

4 rows in set (0.00 sec)

MariaDB [inventory]>

MariaDB [inventory]> select * from product where id
= 4;

```
+---+-----+-----+-----+-----+-----+
```

```
-----+
```

```
| id | name | price | stock | id_category |
```

```
id_manufacturer |
```

```
+---+-----+-----+-----+-----+-----+
```

```
-----+
```

```
| 4 | X110 64GB | 73.84 | 100 | 3 |
```

```
1 |
```

```
+---+-----+-----+-----+-----+-----+
```

```
-----+
```

1 row in set (0.00 sec)

Mariadb

MariaDB [inventory]>

MariaDB [inventory]> select * from product where
price > 2000;

```
+-----+-----+-----+-----+
+-----+
| id | name                | price  | stock | id_category |
| id_manufacturer |
+-----+-----+-----+-----+
+-----+
|  2 | ThinkServer RD630 | 2379.14 |    20 |           2 |
|           4 |
+-----+-----+-----+-----+
+-----+
1 row in set (0.00 sec)
```

MariaDB [inventory]> select * from product where
price < 2000;

```
+-----+-----+-----+-----+-----+
+-----+
| id | name                | price  | stock | id_category |
| id_manufacturer |
+-----+-----+-----+-----+-----+
+-----+
|  1 | ThinkServer TS140 | 539.88 |    20 |           2 |
|           4 |
|  3 | RT-AC68U          | 219.99 |    10 |           1 |
|           3 |
|  4 | X110 64GB         |  73.84 |   100 |           3 |
|           1 |
+-----+-----+-----+-----+-----+
+-----+
3 rows in set (0.00 sec)
```

Mariadb

```
MariaDB [inventory]>  
MariaDB [inventory]> update    product set price=3000,=4  
stock where id = 4;
```

```
Query OK, 1 row affected (0.00 sec)  
Rows matched: 1  Changed: 1  Warnings: 0
```

```
MariaDB [inventory]>  
MariaDB [inventory]> select *      from product;
```

```
+-----+-----+-----+-----+  
+-----+  
| id | name                | price  | stock | id_category  
| id_manufacturer |  
+-----+-----+-----+-----+  
+-----+  
|  1 | ThinkServer TS140  |  539.88 |    20 |           2  
|      4 |  
|  2 | ThinkServer RD630  | 2379.14 |    20 |           2  
|      4 |  
|  3 | RT-AC68U           |   219.99 |    10 |           1  
|      3 |  
|  4 | X110 64GB          |    3000 |     4 |           3  
|      1 |  
+-----+-----+-----+-----+
```

```
+-----+  
4 rows in set (0.00 sec)
```

```
MariaDB [inventory]>
```

```
MariaDB [inventory]> insert into product  
(name,price,stock,id_category,id_manufacturer)
```

```
Mariadb
values ('dell server',2000,20,1,2);
```

Query OK, 1 row affected (0.00 sec)

```
MariaDB [inventory]> select * from product;
```

```
+----+-----+-----+-----+-----+
+-----+
| id | name                | price  | stock | id_category |
| id_manufacturer |
+----+-----+-----+-----+-----+
+-----+
| 1 | ThinkServer TS140 | 539.88 | 20 | 2 |
| 4 |
| 2 | ThinkServer RD630 | 2379.14 | 20 | 2 |
| 4 |
| 3 | RT-AC68U          | 219.99 | 10 | 1 |
| 3 |
| 4 | X110 64GB         | 3000   | 4  | 3 |
| 1 |
| 5 | dell server       | 2000   | 20 | 1 |
| 2 |
+----+-----+-----+-----+-----+
+-----+
```

5 rows in set (0.00 sec)

```
MariaDB [inventory]> delete from product where id = 5;
Query OK, 1 row affected (0.01 sec)
```

```
MariaDB [inventory]>
```

```
MariaDB [inventory]> select * from product;
```

```
+----+-----+-----+-----+-----+
```

Mariadb

id	name	price	stock	id_category
id_manufacturer				
1	ThinkServer TS140 4	539.88	20	2
2	ThinkServer RD630 4	2379.14	20	2
3	RT-AC68U 3	219.99	10	1
4	X110 64GB 1	3000	4	3

4 rows in set (0.00 sec)

MariaDB [inventory]>

MariaDB [inventory]> describe product;

Field	Type	Null	Key	Default
Extra				
id	int(11)	NO	PRI	NULL
auto_increment				
name	varchar(100)	NO		NULL
price	double	NO		NULL
stock	int(11)	NO		NULL

Mariadb

id_category		int(11)	NO		NULL	
id_manufacturer		int(11)	NO		NULL	

```
+-----+-----+-----+-----+
-----+
```

6 rows in set (0.01 sec)

MariaDB [inventory]>

MariaDB [inventory]> select user();

```
+-----+
| user() |
+-----+
| root@localhost |
+-----+
```

1 row in set (0.00 sec)

MariaDB [inventory]>

MariaDB [inventory]> select user();

```
+-----+
| user() |
+-----+
| root@localhost |
+-----+
```

1 row in set (0.00 sec)

MariaDB [inventory]>

MariaDB [inventory]> use mysql;

Reading table information for completion of table and column names

Mariadb

You can turn off this feature to get a quicker startup with -A

Database changed

```
MariaDB [mysql]>
```

```
MariaDB [mysql]> show tables;
```

```
+-----+
| Tables_in_mysql |
+-----+
| columns_priv    |
| db              |
| event           |
| func            |
| general_log     |
| help_category   |
| help_keyword    |
| help_relation   |
| help_topic      |
| host            |
| ndb_binlog_index|
| plugin          |
| proc            |
| procs_priv      |
| proxies_priv    |
| servers         |
| slow_log        |
| tables_priv     |
| time_zone       |
| time_zone_leap_second|
| time_zone_name  |
| time_zone_transition|
```

```

                                Mariadb
| time_zone_transition_type |
| user                      |
+-----+
24 rows in set (0.00 sec)

```

MariaDB [mysql]>

MariaDB [mysql]> select * from user;

MariaDB [mysql]> select user,host from user;

```

+-----+-----+
| user | host      |
+-----+-----+
| root | 127.0.0.1 |
| root | ::1       |
| root | localhost |
+-----+-----+
3 rows in set (0.00 sec)

```

MariaDB [mysql]> create user harry@localhost
identified by 'redhat';

MariaDB [mysql]> select user,host from user;

```

+-----+-----+
| user | host      |
+-----+-----+
| root | 127.0.0.1 |
| root | ::1       |
| harry | localhost |
| root | localhost |
+-----+-----+
4 rows in set (0.00 sec)

```

MariaDB [mysql]>

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```
MariaDB [mysql]> create user natasha@172.25.0.10
identified by 'redhat';
```

Query OK, 0 rows affected (0.00 sec)

```
MariaDB [mysql]>
```

```
MariaDB [mysql]> create user sarah@'%' identified by
'redhat';
```

Query OK, 0 rows affected (0.00 sec)

```
MariaDB [mysql]>
```

```
MariaDB [mysql]> create user krishna@'172.25.0.%'
identified by 'redhat';
```

Query OK, 0 rows affected (0.00 sec)

```
MariaDB [mysql]>
```

```
MariaDB [mysql]> select user,host from user;
```

user	host
sarah	%
root	127.0.0.1
krishna	172.25.0.%
natasha	172.25.0.10
root	::1
harry	localhost
root	localhost

7 rows in set (0.00 sec)

```
MariaDB [mysql]>
```

```
MariaDB [mysql]>
```

Mariadb

```
MariaDB [mysql]> use inventory;
Reading table information for completion of table and
column names
You can turn off this feature to get a quicker startup
with -A
```

Database changed

```
MariaDB [inventory]>
MariaDB [inventory]> grant select,insert on
inventory.product to harry@localhost;
Query OK, 0 rows affected (0.01 sec)
```

```
MariaDB [inventory]>
MariaDB [inventory]> show grants for harry@localhost;
+-----+
| Grants for harry@localhost                                     |
|                                                                 |
+-----+
| GRANT USAGE ON *.* TO 'harry'@'localhost' IDENTIFIED BY      |
PASSWORD '*84BB5DF4823DA319BBF86C99624479A198E6EEE9' |
| GRANT SELECT, INSERT ON `inventory`.`product` TO            |
'harry'@'localhost' |
|                                                                 |
+-----+
2 rows in set (0.00 sec)
```

```
MariaDB [inventory]>
MariaDB [inventory]> grant all on inventory.* to
natasha@172.25.0.10;
```

Mariadb

Query OK, 0 rows affected (0.00 sec)

MariaDB [inventory]>

MariaDB [inventory]> show grants for
natasha@172.25.0.10;

```
+-----+
+-----+
-+
| Grants for natasha@172.25.0.10
|
+-----+
+-----+
-+
| GRANT USAGE ON *.* TO 'natasha'@'172.25.0.10'
IDENTIFIED BY PASSWORD
'*84BB5DF4823DA319BBF86C99624479A198E6EEE9' |
| GRANT ALL PRIVILEGES ON `inventory`.* TO
'natasha'@'172.25.0.10'
|
+-----+
+-----+
-+
2 rows in set (0.00 sec)
```

MariaDB [inventory]> exit;

Bye

[root@server0 ~]#

How to login in mariadb database with normal users ?

Mariadb

```
[root@server0 ~]#  
[root@server0 ~]# mysql -u harry -h localhost -p  
Enter password:  
Welcome to the MariaDB monitor.  Commands end with ; or  
\g.  
Your MariaDB connection id is 17  
Server version: 5.5.35-MariaDB MariaDB Server
```

Copyright (c) 2000, 2013, Oracle, Monty Program Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
MariaDB [(none)]>  
MariaDB [(none)]> show databases;  
+-----+  
| Database                |  
+-----+  
| information_schema      |  
| inventory                |  
+-----+  
2 rows in set (0.00 sec)
```

```
MariaDB [(none)]>  
MariaDB [(none)]> use inventory;  
Reading table information for completion of table and  
column names  
You can turn off this feature to get a quicker startup  
with -A
```

Mariadb

```
Database changed
MariaDB [inventory]>
MariaDB [inventory]> show tables;
+-----+
| Tables_in_inventory |
+-----+
| product              |
+-----+
1 row in set (0.00 sec)
```

```
MariaDB [inventory]>
MariaDB [inventory]> exit;
Bye
[root@server0 ~]#
[root@server0 ~]#
```

How to take backup of database Server..... ?

```
[root@server0 ~]#
[root@server0 ~]# mysqldump -u root -p inventory >
/tmp/inventory.dump
Enter password:
[root@server0 ~]#
[root@server0 ~]# ls /tmp
inventory.dump      systemd-private-2byIsZ
systemd-private-SN95Gv
rht                 systemd-private-JBy03J
yum_save_tx.2018-05-11.02-03.FE1Yqc.yumtx
```

Mariadb

```
ssh-n9hDGYE9E0vQ systemd-private-Ka9LGg
[root@server0 ~]#
[root@server0 ~]# mysqldump -u root -p --all-databases
> /tmp/alldb.dump
Enter password:
[root@server0 ~]#
[root@server0 ~]# ls /tmp
alldb.dump          ssh-n9hDGYE9E0vQ
systemd-private-Ka9LGg
inventory.dump      systemd-private-2byIsZ
systemd-private-SN95Gv
rht                 systemd-private-JBy03J
yum_save_tx.2018-05-11.02-03.FE1Yqc.yumtx
```

```
[root@server0 ~]#
```

Now go on Machine-2 (Desktop) and access the database server ?

```
[root@desktop0 ~]# ping 172.25.0.11
PING 172.25.0.11 (172.25.0.11) 56(84) bytes of data.
64 bytes from 172.25.0.11: icmp_seq=1 ttl=64 time=0.430
ms
64 bytes from 172.25.0.11: icmp_seq=2 ttl=64 time=1.05 ms
^C
--- 172.25.0.11 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time
1001ms
rtt min/avg/max/mdev = 0.430/0.744/1.059/0.315 ms
```


Mariadb

```
[root@desktop0 ~]#  
[root@desktop0 ~]#  
[root@desktop0 ~]# which mysql  
/usr/bin/which: no mysql in  
(/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/root/  
bin)  
[root@desktop0 ~]#  
[root@desktop0 ~]#  
[root@desktop0 ~]# yum install mariadb -y  
Loaded plugins: langpacks  
rhel_dvd  
    | 4.1 kB  00:00:00  
(1/2): rhel_dvd/group_gz  
    | 134 kB  00:00:00  
(2/2): rhel_dvd/primary_db  
    | 3.4 MB  00:00:00  
Resolving Dependencies  
--> Running transaction check  
---> Package mariadb.x86_64 1:5.5.35-3.el7 will be  
installed  
--> Finished Dependency Resolution
```

Dependencies Resolved

```
=====
```

Package	Arch	Version
Repository	Size	

```
=====
```

Installing:		
mariadb	x86_64	1:5.5.35-3.el7

rhel_dvd

Mariadb
8.9 M

Transaction Summary

=====

Install 1 Package

Total download size: 8.9 M

Installed size: 49 M

Downloading packages:

mariadb-5.5.35-3.el7.x86_64.rpm
| 8.9 MB 00:00:00

Running transaction check

Running transaction test

Transaction test succeeded

Running transaction

Installing : 1:mariadb-5.5.35-3.el7.x86_64
1/1

Verifying : 1:mariadb-5.5.35-3.el7.x86_64
1/1

Installed:

mariadb.x86_64 1:5.5.35-3.el7

Complete!

[root@desktop0 ~]#

[root@desktop0 ~]# which mysql
/usr/bin/mysql

[root@desktop0 ~]#

[root@desktop0 ~]# mysql -u natasha -h 172.25.0.11 -p

Mariadb

Enter password:

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

Your MariaDB connection id is 20

Server version: 5.5.35-MariaDB MariaDB Server

Copyright (c) 2000, 2013, Oracle, Monty Program Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]>

MariaDB [(none)]> show databases;

```
+-----+
| Database          |
+-----+
| information_schema |
| inventory          |
+-----+
```

2 rows in set (0.00 sec)

MariaDB [(none)]> exit

Bye

[root@desktop0 ~]#

***** Complete *****