copy the random generate key

save ppk username@example on desk top

mkdir .ssh

echo “ paste random generate keys copying from putty key generator” >> .ssh/authorized\_keys

sudo apt-get update

sudo apt-get upgrade -y

sudo apt-get install build-essential virtualbox-dkms nano zip unzip curl man-db acpid git module-assistant

sudo reboot

man mount

[press enter to skip pages, press h to see the list , press q and again q to exit]

ls -la /dev

ls -la /dev | grep cdrom

ls -la /media/cdrom

sudo mount /dev/cdrom /media/cdrom

ls -la /media/cdrom

sudo sh /media/cdrom/vboxlinuxadditions.run --nox11

or sudo bash /media/cdrom/VBoxLinuxAdditions.run –nox11

For imported appliances Example:

/media/cdrom/VBoxLinuxAdditions.run install

[found at <https://unix.stackexchange.com/questions/231579/why-is-it-impossible-to-run-virtual-box-additions-run-file>

--edited cdrom0 to cdrom]

sudo reboot

lsmod

lsmod | grep vbox

ls -la /media

0 1777617249

cd /media/sf\_sandbox

-bash: cd: /media/sf\_sandbox: permission denied

id

uid=1000(masum) gid=1000(masum) groups=1000(masum),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),113(lpadmin),114(sambashare)

uid=1000(masum) gid=1000(masum) groups=1000(masum),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),113(lpadmin),114(sambashare)

getent group vboxsf

vboxsf:x:999:

sudo usermod -a -G vboxsf masum

or

sudo usermod -aG vboxsf masum

cd /media/sf\_sandbox

-bash: cd: /media/sf\_sandbox: permission denied

logout

cd /media/sf\_sandbox

masum@sandbox:/media/sf\_sandbox$

id www-data

uid=33(www-data) gid=33(www-data) groups=33(www-data)

[the apache user only in the www-data roup]

sudo usermod -a -G vboxsf www-data

masum@sandbox:/media/sf\_sandbox$ cd /etc

masum@sandbox:/etc$

ls -1

masum@sandbox:/etc$ ls -1 | grep apache

masum@sandbox:/etc$ cd apache2

ls –la

[copy paste may not work type it manually]]

masum@sandbox:/etc/apache2$ ls -la sites-available

[copy paste may not work type it manually]]

masum@sandbox:/etc/apache2$ ls -la sites-enabled

[copy paste may not work type it manually]]

sudoedit sites-available/vboxsf.conf

<VirtualHost \*:80 \*:8080>

ServerName dspace

ServerAlias \*. dspace

LogLevel info

ErrorLog ${APACHE\_LOG\_DIR}/vboxsf-error.log

CustomLog ${APACHE\_LOG\_DIR}/vboxsf-access.log combined

RewriteEngine On

<Directory />

Options FollowSymLinks

AllowOverride All

</Directory>

<Directory /media/>

Order allow,deny

Allow from all

Require all granted

</Directory>

<Location /server-status>

SetHandler server-status

Order allow,deny

Allow from all

Require all granted

</Location>

UseCanonicalName Off

VirtualDocumentRoot /media/sf\_%1

</VirtualHost>

sudoedit ports.conf

Listen 8080

masum@sandbox:/etc/apache2$ sudo a2ensite vboxsf

masum@sandbox:/etc/apache2$ sudo a2dissite 000-default

masum@sandbox:/etc/apache2$ sudo a2enmod rewrite vhost\_alias

sudo service apache2 restart

test server <http://sandbox.dev:8080/server-status>

Using username "masum".

masum@sandbox.dev's password:

Welcome to Ubuntu 16.04.7 LTS (GNU/Linux 4.4.0-194-generic x86\_64)

\* Documentation: https://help.ubuntu.com

\* Management: https://landscape.canonical.com

\* Support: https://ubuntu.com/advantage

Last login: Wed Dec 2 11:52:35 2020 from 127.0.0.1

masum@sandbox:~$ ssh sandbox.dev

masum@sandbox.dev's password:

Welcome to Ubuntu 16.04.7 LTS (GNU/Linux 4.4.0-194-generic x86\_64)

\* Documentation: https://help.ubuntu.com

\* Management: https://landscape.canonical.com

\* Support: https://ubuntu.com/advantage

Last login: Wed Dec 2 16:42:06 2020 from 10.0.2.2

masum@sandbox:~$ cd /etc/php/7.0

masum@sandbox:/etc/php/7.0$ sudo apt-get update

[sudo] password for masum:

Hit:1 http://bd.archive.ubuntu.com/ubuntu xenial InRelease

Get:2 http://bd.archive.ubuntu.com/ubuntu xenial-updates InRelease [109 kB]

Get:3 http://bd.archive.ubuntu.com/ubuntu xenial-backports InRelease [107 kB]

Get:4 http://bd.archive.ubuntu.com/ubuntu xenial-updates/main amd64 Packages [1,907 kB]

Get:5 http://bd.archive.ubuntu.com/ubuntu xenial-updates/main i386 Packages [1,459 kB]

Get:6 http://security.ubuntu.com/ubuntu xenial-security InRelease [109 kB]

Get:7 http://bd.archive.ubuntu.com/ubuntu xenial-updates/main Translation-en [459 kB]

Get:8 http://security.ubuntu.com/ubuntu xenial-security/universe amd64 Packages [777 kB]

Get:9 http://bd.archive.ubuntu.com/ubuntu xenial-updates/universe amd64 Packages [1,208 kB]

Get:10 http://security.ubuntu.com/ubuntu xenial-security/universe i386 Packages [657 kB]

Get:11 http://bd.archive.ubuntu.com/ubuntu xenial-updates/universe i386 Packages [1,076 kB]

Get:12 http://bd.archive.ubuntu.com/ubuntu xenial-updates/universe Translation-en [352 kB]

Fetched 8,222 kB in 57s (142 kB/s)

Reading package lists... Done

masum@sandbox:/etc/php/7.0$ sudo apt-get install mysql-server

Reading package lists... Done

Building dependency tree

Reading state information... Done

mysql-server is already the newest version (5.7.32-0ubuntu0.16.04.1).

0 upgraded, 0 newly installed, 0 to remove and 7 not upgraded.

masum@sandbox:/etc/php/7.0$ sudo mysql\_secure\_installation

Securing the MySQL server deployment.

Enter password for user root:

VALIDATE PASSWORD PLUGIN can be used to test passwords

and improve security. It checks the strength of password

and allows the users to set only those passwords which are

secure enough. Would you like to setup VALIDATE PASSWORD plugin?

Press y|Y for Yes, any other key for No: y

There are three levels of password validation policy:

LOW Length >= 8

MEDIUM Length >= 8, numeric, mixed case, and special characters

STRONG Length >= 8, numeric, mixed case, special characters and dictionary file

Please enter 0 = LOW, 1 = MEDIUM and 2 = STRONG: 0

Using existing password for root.

Estimated strength of the password: 25

Change the password for root ? ((Press y|Y for Yes, any other key for No) :

... skipping.

By default, a MySQL installation has an anonymous user,

allowing anyone to log into MySQL 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? (Press y|Y for Yes, any other key for No) :

... skipping.

Normally, root should only be allowed to connect from

'localhost'. This ensures that someone cannot guess at

the root password from the network.

Disallow root login remotely? (Press y|Y for Yes, any other key for No) :

... skipping.

By default, MySQL 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? (Press y|Y for Yes, any other key for No) :

... skipping.

Reloading the privilege tables will ensure that all changes

made so far will take effect immediately.

Reload privilege tables now? (Press y|Y for Yes, any other key for No) :

... skipping.

All done!

masum@sandbox:/etc/php/7.0$ sudo service mysql start

masum@sandbox:/etc/php/7.0$ sudo service mysql status

● mysql.service - MySQL Community Server

Loaded: loaded (/lib/systemd/system/mysql.service; enabled; vendor preset: en

Active: active (running) since Wed 2020-12-02 16:42:14 +06; 6min ago

Process: 715 ExecStartPost=/usr/share/mysql/mysql-systemd-start post (code=exi

Process: 635 ExecStartPre=/usr/share/mysql/mysql-systemd-start pre (code=exite

Main PID: 714 (mysqld)

CGroup: /system.slice/mysql.service

└─714 /usr/sbin/mysqld

Dec 02 16:41:36 sandbox systemd[1]: Starting MySQL Community Server...

Dec 02 16:42:14 sandbox systemd[1]: Started MySQL Community Server.

Dec 02 16:48:44 sandbox systemd[1]: Started MySQL Community Server.

masum@sandbox:/etc/php/7.0$ mysql

ERROR 1045 (28000): Access denied for user 'masum'@'localhost' (using password: NO)

masum@sandbox:/etc/php/7.0$ mysql -h localhost --port 3306 - u root -p

mysql Ver 14.14 Distrib 5.7.32, for Linux (x86\_64) using EditLine wrapper

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owners.

Usage: mysql [OPTIONS] [database]

-?, --help Display this help and exit.

-I, --help Synonym for -?

--auto-rehash Enable automatic rehashing. One doesn't need to use

'rehash' to get table and field completion, but startup

and reconnecting may take a longer time. Disable with

--disable-auto-rehash.

(Defaults to on; use --skip-auto-rehash to disable.)

-A, --no-auto-rehash

No automatic rehashing. One has to use 'rehash' to get

table and field completion. This gives a quicker start of

mysql and disables rehashing on reconnect.

--auto-vertical-output

Automatically switch to vertical output mode if the

result is wider than the terminal width.

-B, --batch Don't use history file. Disable interactive behavior.

(Enables --silent.)

--bind-address=name IP address to bind to.

--binary-as-hex Print binary data as hex

--character-sets-dir=name

Directory for character set files.

--column-type-info Display column type information.

-c, --comments Preserve comments. Send comments to the server. The

default is --skip-comments (discard comments), enable

with --comments.

-C, --compress Use compression in server/client protocol.

-#, --debug[=#] This is a non-debug version. Catch this and exit.

--debug-check This is a non-debug version. Catch this and exit.

-T, --debug-info This is a non-debug version. Catch this and exit.

-D, --database=name Database to use.

--default-character-set=name

Set the default character set.

--delimiter=name Delimiter to be used.

--enable-cleartext-plugin

Enable/disable the clear text authentication plugin.

-e, --execute=name Execute command and quit. (Disables --force and history

file.)

-E, --vertical Print the output of a query (rows) vertically.

-f, --force Continue even if we get an SQL error.

--histignore=name A colon-separated list of patterns to keep statements

from getting logged into syslog and mysql history.

-G, --named-commands

Enable named commands. Named commands mean this program's

internal commands; see mysql> help . When enabled, the

named commands can be used from any line of the query,

otherwise only from the first line, before an enter.

Disable with --disable-named-commands. This option is

disabled by default.

-i, --ignore-spaces Ignore space after function names.

--init-command=name SQL Command to execute when connecting to MySQL server.

Will automatically be re-executed when reconnecting.

--local-infile Enable/disable LOAD DATA LOCAL INFILE.

-b, --no-beep Turn off beep on error.

-h, --host=name Connect to host.

-H, --html Produce HTML output.

-X, --xml Produce XML output.

--line-numbers Write line numbers for errors.

(Defaults to on; use --skip-line-numbers to disable.)

-L, --skip-line-numbers

Don't write line number for errors.

-n, --unbuffered Flush buffer after each query.

--column-names Write column names in results.

(Defaults to on; use --skip-column-names to disable.)

-N, --skip-column-names

Don't write column names in results.

--sigint-ignore Ignore SIGINT (CTRL-C).

-o, --one-database Ignore statements except those that occur while the

default database is the one named at the command line.

--pager[=name] Pager to use to display results. If you don't supply an

option, the default pager is taken from your ENV variable

PAGER. Valid pagers are less, more, cat [> filename],

etc. See interactive help (\h) also. This option does not

work in batch mode. Disable with --disable-pager. This

option is disabled by default.

-p, --password[=name]

Password to use when connecting to server. If password is

not given it's asked from the tty.

-P, --port=# Port number to use for connection or 0 for default to, in

order of preference, my.cnf, $MYSQL\_TCP\_PORT,

/etc/services, built-in default (3306).

--prompt=name Set the mysql prompt to this value.

--protocol=name The protocol to use for connection (tcp, socket, pipe,

memory).

-q, --quick Don't cache result, print it row by row. This may slow

down the server if the output is suspended. Doesn't use

history file.

-r, --raw Write fields without conversion. Used with --batch.

--reconnect Reconnect if the connection is lost. Disable with

--disable-reconnect. This option is enabled by default.

(Defaults to on; use --skip-reconnect to disable.)

-s, --silent Be more silent. Print results with a tab as separator,

each row on new line.

-S, --socket=name The socket file to use for connection.

--ssl-mode=name SSL connection mode.

--ssl Deprecated. Use --ssl-mode instead.

(Defaults to on; use --skip-ssl to disable.)

--ssl-verify-server-cert

Deprecated. Use --ssl-mode=VERIFY\_IDENTITY instead.

--ssl-ca=name CA file in PEM format.

--ssl-capath=name CA directory.

--ssl-cert=name X509 cert in PEM format.

--ssl-cipher=name SSL cipher to use.

--ssl-key=name X509 key in PEM format.

--ssl-crl=name Certificate revocation list.

--ssl-crlpath=name Certificate revocation list path.

--tls-version=name TLS version to use, permitted values are: TLSv1, TLSv1.1,

TLSv1.2

--server-public-key-path=name

File path to the server public RSA key in PEM format.

--get-server-public-key

Get server public key

-t, --table Output in table format.

--tee=name Append everything into outfile. See interactive help (\h)

also. Does not work in batch mode. Disable with

--disable-tee. This option is disabled by default.

-u, --user=name User for login if not current user.

-U, --safe-updates Only allow UPDATE and DELETE that uses keys.

-U, --i-am-a-dummy Synonym for option --safe-updates, -U.

-v, --verbose Write more. (-v -v -v gives the table output format).

-V, --version Output version information and exit.

-w, --wait Wait and retry if connection is down.

--connect-timeout=# Number of seconds before connection timeout.

--max-allowed-packet=#

The maximum packet length to send to or receive from

server.

--net-buffer-length=#

The buffer size for TCP/IP and socket communication.

--select-limit=# Automatic limit for SELECT when using --safe-updates.

--max-join-size=# Automatic limit for rows in a join when using

--safe-updates.

--secure-auth Refuse client connecting to server if it uses old

(pre-4.1.1) protocol. Deprecated. Always TRUE

--server-arg=name Send embedded server this as a parameter.

--show-warnings Show warnings after every statement.

-j, --syslog Log filtered interactive commands to syslog. Filtering of

commands depends on the patterns supplied via histignore

option besides the default patterns.

--plugin-dir=name Directory for client-side plugins.

--default-auth=name Default authentication client-side plugin to use.

--binary-mode By default, ASCII '\0' is disallowed and '\r\n' is

translated to '\n'. This switch turns off both features,

and also turns off parsing of all clientcommands except

\C and DELIMITER, in non-interactive mode (for input

piped to mysql or loaded using the 'source' command).

This is necessary when processing output from mysqlbinlog

that may contain blobs.

--connect-expired-password

Notify the server that this client is prepared to handle

expired password sandbox mode.

Default options are read from the following files in the given order:

/etc/my.cnf /etc/mysql/my.cnf ~/.my.cnf

The following groups are read: mysql client

The following options may be given as the first argument:

--print-defaults Print the program argument list and exit.

--no-defaults Don't read default options from any option file,

except for login file.

--defaults-file=# Only read default options from the given file #.

--defaults-extra-file=# Read this file after the global files are read.

--defaults-group-suffix=#

Also read groups with concat(group, suffix)

--login-path=# Read this path from the login file.

Variables (--variable-name=value)

and boolean options {FALSE|TRUE} Value (after reading options)

--------------------------------- ----------------------------------------

auto-rehash TRUE

auto-vertical-output FALSE

bind-address (No default value)

binary-as-hex FALSE

character-sets-dir (No default value)

column-type-info FALSE

comments FALSE

compress FALSE

database (No default value)

default-character-set auto

delimiter ;

enable-cleartext-plugin FALSE

vertical FALSE

force FALSE

histignore (No default value)

named-commands FALSE

ignore-spaces FALSE

init-command (No default value)

local-infile FALSE

no-beep FALSE

host localhost

html FALSE

xml FALSE

line-numbers TRUE

unbuffered FALSE

column-names TRUE

sigint-ignore FALSE

port 3306

prompt mysql>

quick FALSE

raw FALSE

reconnect TRUE

socket (No default value)

ssl TRUE

ssl-verify-server-cert FALSE

ssl-ca (No default value)

ssl-capath (No default value)

ssl-cert (No default value)

ssl-cipher (No default value)

ssl-key (No default value)

ssl-crl (No default value)

ssl-crlpath (No default value)

tls-version (No default value)

server-public-key-path (No default value)

get-server-public-key FALSE

table FALSE

user (No default value)

safe-updates FALSE

i-am-a-dummy FALSE

connect-timeout 0

max-allowed-packet 16777216

net-buffer-length 16384

select-limit 1000

max-join-size 1000000

secure-auth TRUE

show-warnings FALSE

plugin-dir (No default value)

default-auth (No default value)

binary-mode FALSE

connect-expired-password FALSE

masum@sandbox:/etc/php/7.0$ sudo apt update

Hit:1 http://bd.archive.ubuntu.com/ubuntu xenial InRelease

Hit:2 http://bd.archive.ubuntu.com/ubuntu xenial-updates InRelease

Hit:3 http://bd.archive.ubuntu.com/ubuntu xenial-backports InRelease

Hit:4 http://security.ubuntu.com/ubuntu xenial-security InRelease

Reading package lists... Done

Building dependency tree

Reading state information... Done

7 packages can be upgraded. Run 'apt list --upgradable' to see them.

masum@sandbox:/etc/php/7.0$ apt list --upgradable

Listing... Done

linux-headers-generic/xenial-updates,xenial-security 4.4.0.197.203 amd64 [upgradable from: 4.4.0.194.200]

linux-headers-virtual/xenial-updates,xenial-security 4.4.0.197.203 amd64 [upgradable from: 4.4.0.194.200]

linux-image-virtual/xenial-updates,xenial-security 4.4.0.197.203 amd64 [upgradable from: 4.4.0.194.200]

linux-libc-dev/xenial-updates,xenial-security 4.4.0-197.229 amd64 [upgradable from: 4.4.0-194.226]

linux-virtual/xenial-updates,xenial-security 4.4.0.197.203 amd64 [upgradable from: 4.4.0.194.200]

ubuntu-minimal/xenial-updates 1.361.6 amd64 [upgradable from: 1.361]

unattended-upgrades/xenial-updates,xenial-updates 1.1ubuntu1.18.04.7~16.04.6 all [upgradable from: 0.90ubuntu0.10]

masum@sandbox:/etc/php/7.0$ sudo apt install mysql-server

Reading package lists... Done

Building dependency tree

Reading state information... Done

mysql-server is already the newest version (5.7.32-0ubuntu0.16.04.1).

0 upgraded, 0 newly installed, 0 to remove and 7 not upgraded.

masum@sandbox:/etc/php/7.0$ sudo systemctl status mysql

● mysql.service - MySQL Community Server

Loaded: loaded (/lib/systemd/system/mysql.service; enabled; vendor preset: en

Active: active (running) since Wed 2020-12-02 16:42:14 +06; 9min ago

Process: 715 ExecStartPost=/usr/share/mysql/mysql-systemd-start post (code=exi

Process: 635 ExecStartPre=/usr/share/mysql/mysql-systemd-start pre (code=exite

Main PID: 714 (mysqld)

CGroup: /system.slice/mysql.service

└─714 /usr/sbin/mysqld

Dec 02 16:41:36 sandbox systemd[1]: Starting MySQL Community Server...

Dec 02 16:42:14 sandbox systemd[1]: Started MySQL Community Server.

Dec 02 16:48:44 sandbox systemd[1]: Started MySQL Community Server.

masum@sandbox:/etc/php/7.0$ sudo mysql

ERROR 1045 (28000): Access denied for user 'root'@'localhost' (using password: NO)

masum@sandbox:/etc/php/7.0$ cd /var/log/mysql

masum@sandbox:/var/log/mysql$ cd /var/log/mysql/mysql

-bash: cd: /var/log/mysql/mysql: No such file or directory

masum@sandbox:/var/log/mysql$ cd /var/log/mysql/mysql

-bash: cd: /var/log/mysql/mysql: No such file or directory

masum@sandbox:/var/log/mysql$ cd /var/log/mysql

masum@sandbox:/var/log/mysql$ ls -la

total 188

drwxr-x--- 2 mysql adm 4096 Nov 29 13:12 .

drwxrwxr-x 10 root syslog 4096 Dec 2 16:43 ..

-rw-r----- 1 mysql adm 174226 Dec 2 16:51 error.log

-rw-r----- 1 mysql adm 1638 Dec 2 16:42 slow.log

masum@sandbox:/var/log/mysql$ MySQL username & password

[1] 1470

-bash: MySQL: command not found

-bash: password: command not found

[1]+ Exit 127 MySQL username

masum@sandbox:/var/log/mysql$ MySQL username & password

[1] 1473

-bash: password: command not found

masum@sandbox:/var/log/mysql$ -bash: MySQL: command not found

ls -la

total 188

drwxr-x--- 2 mysql adm 4096 Nov 29 13:12 .

drwxrwxr-x 10 root syslog 4096 Dec 2 16:43 ..

-rw-r----- 1 mysql adm 174226 Dec 2 16:51 error.log

-rw-r----- 1 mysql adm 1638 Dec 2 16:42 slow.log

[1]+ Exit 127 MySQL username

masum@sandbox:/var/log/mysql$ php -a

Interactive mode enabled

php > exit

masum@sandbox:/var/log/mysql$ mysql -a

mysql: [ERROR] mysql: unknown option '-a'

masum@sandbox:/var/log/mysql$ MySQL username & password

[1] 1484

-bash: password: command not found

masum@sandbox:/var/log/mysql$ -bash: MySQL: command not found

cd /var/log/mysql/mysql

-bash: cd: /var/log/mysql/mysql: No such file or directory

[1]+ Exit 127 MySQL username

masum@sandbox:/var/log/mysql$ mysql -uroot -proot

mysql: [Warning] Using a password on the command line interface can be insecure.

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

Your MySQL connection id is 6

Server version: 5.7.32-0ubuntu0.16.04.1-log (Ubuntu)

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affiliates. Other names may be trademarks of their respective

owners.

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

mysql> show table

-> exit

-> q

-> quit

-> show tables;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'exit

q

quit

show tables' at line 2

mysql> exit;

Bye

masum@sandbox:/var/log/mysql$ mysql -uroot -proot

mysql: [Warning] Using a password on the command line interface can be insecure.

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

Your MySQL connection id is 7

Server version: 5.7.32-0ubuntu0.16.04.1-log (Ubuntu)

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owners.

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

mysql>

for laravel installation you will stuck up somewhere

composer global require kylekatarnls/update-helper

composer global require symphony/thanks

these command worked in my case