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How Create Your Own Private Storage Cloud in Your Garage



Google Cloud Free Tri

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Google Cloud Platform

OwnCloud is a free open-source cloud storage which enables you to create a private cloud. ownCloud is a personal cloud storage solution similar to Dropbox, or Microsoft OneDrive.

The difference is that your files will be stored on your **Ubuntu home cloud server** instead of a server located in an unknown location somewhere in the world.

Advantages: No monthly payments, added security and unlimited files storage.

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How Create Your Own Private Storage Cloud in ...

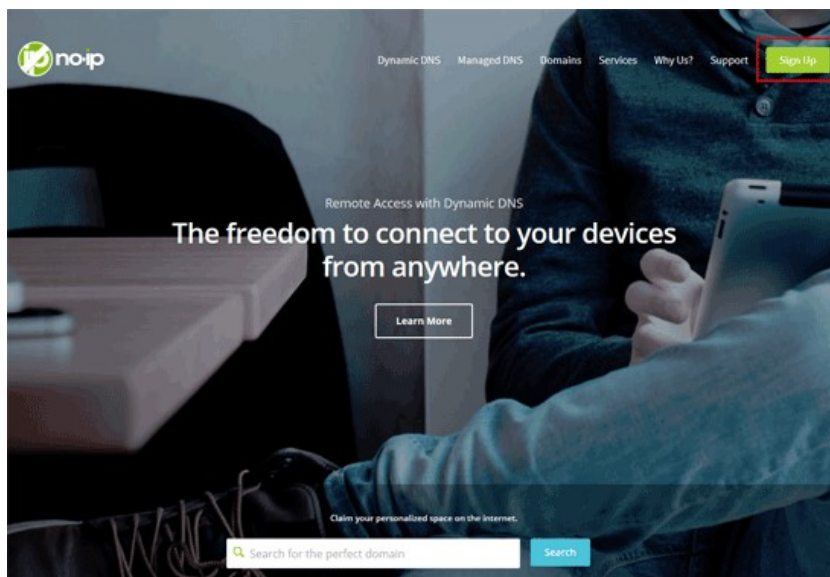


Video Links:

1. [no ip](#)
2. [Dynamic Update Client on Linux](#)
3. [ownCloud](#)

Sign up for a No-IP account

1. Go to www.noip.com website.
2. Then click on the **“Sign Up”** button.

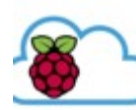


3. Fill out the contact information and click on **“free**

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signup” button at the bottom of the page.

During the set up process, choose a **hostname** without special characters. This **hostname** will become the web address that will be associated with your account. You'll be sent an email confirmation to activate your account.

Create Your No-IP Account

avoid-errors

AVOIDERRORS.NET

.....

avoid-errors@gmail.com

avoiderrors@gmail.com

avoid-errors

.ddns.net

▼

☐ Create my hostname later

Did you know that avoiderrors.net is available?

[Check the avoiderrors.net & Free DDNS settings](#)

Why not upgrade?

Upgrade to No-IP Enhanced Today. Learn more about the benefits of upgrading below.

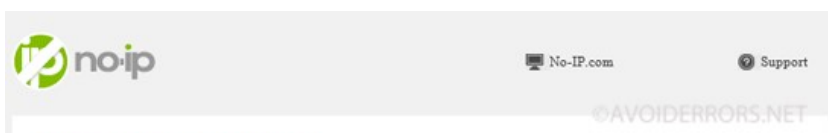
	Enhanced DDNS	Free DDNS
Domain Choices	80+	1
Hostnames	25+	3
No Ads	✓	✗
No 30 Day Account Confirmation	✓	✗
Phone Support	✓	✗
	\$19.95 a year	\$0

AVOIDERRORS.NET

Get Enhanced

Free Sign Up

4. Open your email to **activate** your account.



Activate Your No-IP Account

Congratulations, the No-IP account 'avoiderrors' has been created. To activate your account, please click the button below

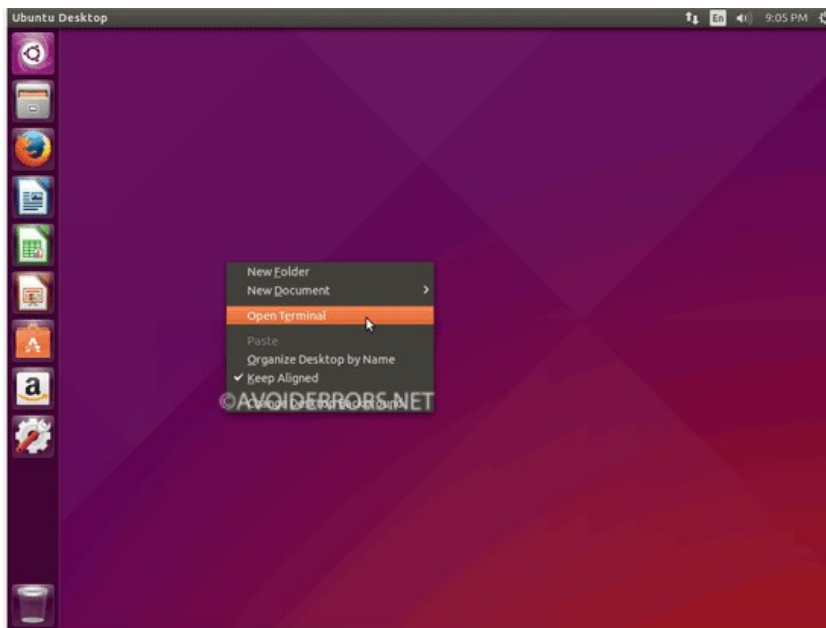
[Activate Account](#)

Have questions or need help? Open a [Support Ticket](#).

Thank you for choosing No-IP! We hope that you enjoy our rock solid services that we have been offering since 1999 to millions of users.

Install the No-IP Client in Ubuntu

1. On your Ubuntu 15.04 open **Terminal**. To do so right click on the desktop and select **Open Terminal**.



2. Copy and paste each command line into terminal in order. Be sure to hit the “**Enter**” key on your keyboard to execute each command.

- “ 1. `sudo -s`
2. `cd /usr/local/src/`
3. `wget http://www.no-ip.com/client/linux/noip-duc-linux.tar.gz`
4. `tar xf noip-duc-linux.tar.gz`
5. `cd noip-2.1.9-1/`
6. `make install`

3. Once you enter the last line you will be prompted for your No-IP username and password. There will also be additional prompts, hit the “**Enter**” key on your keyboard



to leave the default settings.

```

root@avoiderrors-VirtualBox: /usr/local/src/noip-2.1.9-1
noip2.c: In function 'hosts':
noip2.c:1838:20: warning: variable 'y' set but not used [-Wunused-but-set-variable]
    @AVOIDER
    ^
if [ ! -d /usr/local/bin ]; then mkdir -p /usr/local/bin;fi
if [ ! -d /usr/local/etc ]; then mkdir -p /usr/local/etc;fi
cp noip2 /usr/local/bin/noip2
/usr/local/bin/noip2 -C -c /tmp/no-ip2.conf

Auto configuration for Linux client of no-ip.com.

Please enter the login/email string for no-ip.com avoiderrors
Please enter the password for user 'avoiderrors' *****

Only one host [avoiderrors.ddns.net] is registered to this account.
It will be used.
Please enter an update interval:[30]
Do you wish to run something at successful update?[N] (y/N) ^M

New configuration file '/tmp/no-ip2.conf' created.

mv /tmp/no-ip2.conf /usr/local/etc/no-ip2.conf
root@avoiderrors-VirtualBox: /usr/local/src/noip-2.1.9-1#
  
```

Setup Port forward on your Router

We need to setup a Port forwarding rule so that when you are accessing your server from outside your home, your router can direct your connection to the right computer.

1. Open the terminal and enter the following command:

“ ifconfig

2. Locate the IP address of the Ubuntu server, it should look something like: **192.x.x.x** or **10.x.x.x**

```

avoiderrors@avoiderrors-VirtualBox: ~
avoiderrors@avoiderrors-VirtualBox:~$ ifconfig
eth0      Link encap:Ethernet  HWaddr 08:00:27:b2:80:5e
          inet addr:10.0.0.11  Bcast:10.0.0.255  Mask:255.255.0
          inet6 addr: fe80::a00:27ff:feb2:805e/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:89 errors:0 dropped:0 overruns:0 frame:0
          TX packets:105 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:23567 (23.5 KB)  TX bytes:14224 (14.2 KB)

lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING  MTU:65536  Metric:1
          RX packets:271 errors:0 dropped:0 overruns:0 frame:0
          TX packets:271 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:26245 (26.2 KB)  TX bytes:26245 (26.2 KB)

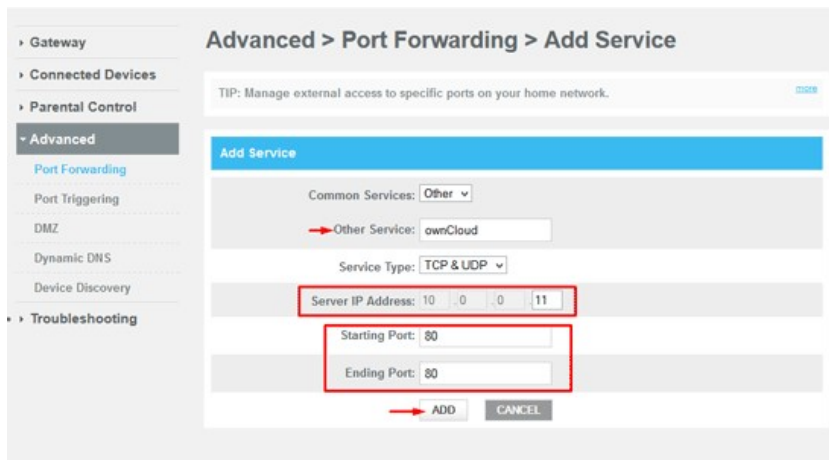
avoiderrors@avoiderrors-VirtualBox:~$
  
```

3. Log in to your [Router](#). Port forward port 80 to the



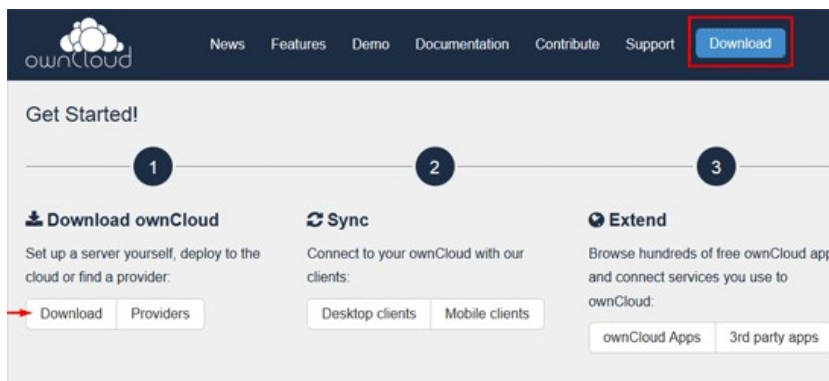
Ubuntu server. In my tutorial my IP address 10.0.0.11 so the configuration is as follows:

Note: The Port forward feature is found on all routers.

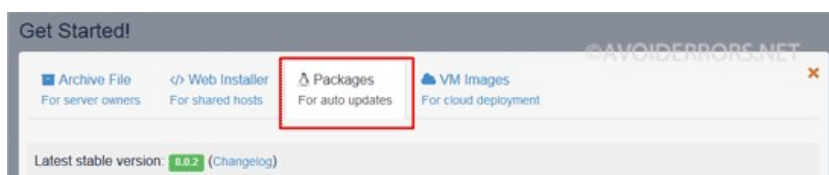


Install ownCloud 8 on Ubuntu 15.04

1. On the Ubuntu server, open a web browser and visit ownCloud.org
2. Click on the “**Download**” button on the top right corner of the page.



3. In the “**Get Started**” section, click on the “**Packages For auto updates**” tab. The one with the penguin icon on it.
4. Then click on “**Continue**” button at the bottom corner.



ownCloud can be installed on Linux operating systems, and is available via packages, sources, virtual images or a one file php installer.

ownCloud provides ready-to-deploy **packages** for popular Linux distributions such as Debian, Ubuntu, Fedora, RedHat Enterprise Linux, CentOS and openSUSE.

Clicking on "Continue" will forward you to the ownCloud community page at the [openSUSE Build Service](#), which hosts the repositories for all distributions. Further instructions on how to install ownCloud for your distribution are also provided there.

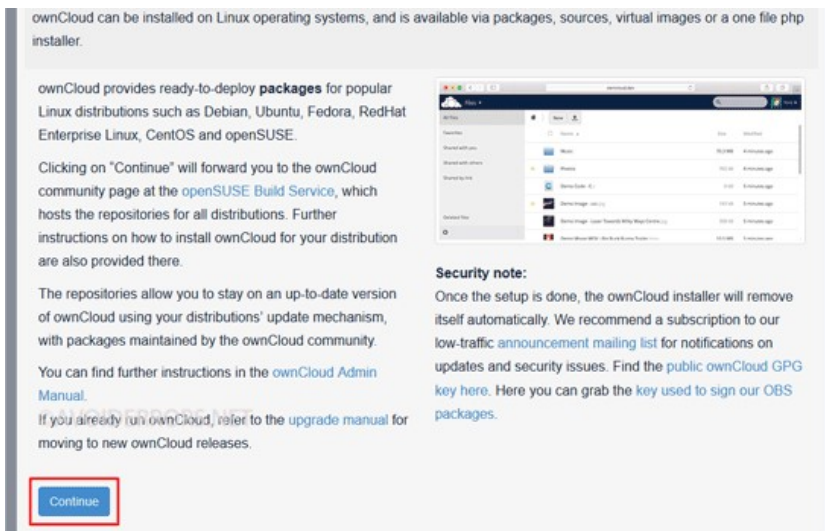
The repositories allow you to stay on an up-to-date version of ownCloud using your distributions' update mechanism, with packages maintained by the ownCloud community.

You can find further instructions in the [ownCloud Admin Manual](#).

If you already (un)ownCloud, refer to the [upgrade manual](#) for moving to new ownCloud releases.

[Continue](#)

Security note:
Once the setup is done, the ownCloud installer will remove itself automatically. We recommend a subscription to our low-traffic [announcement mailing list](#) for notifications on updates and security issues. Find the [public ownCloud GPG key](#) here. Here you can grab the key used to sign our OBS packages.



5. You'll get Install Package screen. Here you'll get the necessary commands to install ownCloud. They are not in order. Execute each command in the order of the numbers I placed to the left. In step seven I placed them in proper order so you can copy and paste it from there if you want.

Install package `lsv:ownCloud:community / owncloud`

Select Your Operating System

CentOS Debian Fedora openSUSE RHEL SLE **Ubuntu**

Add repository and install manually (hide)

For xUbuntu 15.04 run the following:

```
1 sudo sh -c "echo 'deb http://download.opensuse.org/repositories/lsv:/ownCloud:/community/xUbuntu_15.04/ /' >> /etc/apt/sources.list.d/owncloud.list"
2 sudo apt-get update
3 sudo apt-get install owncloud
```

You can add the repository key to apt. Keep in mind that the owner of the key may distribute updates, packages and repositories that your system will trust (more information). To add the key, run:

```
1 wget http://download.opensuse.org/repositories/lsv:/ownCloud:/community/xUbuntu_15.04/Release.key
2 sudo apt-key add - < Release.key
```



6. On your Ubuntu 15.04 open **Terminal**. To do so right click on the desktop and select Open Terminal.

ubuntu@Ubuntu: ~

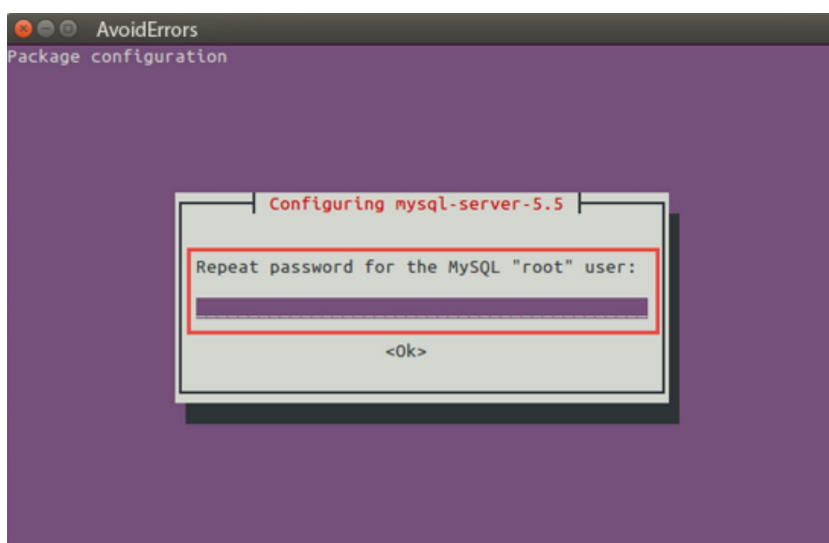
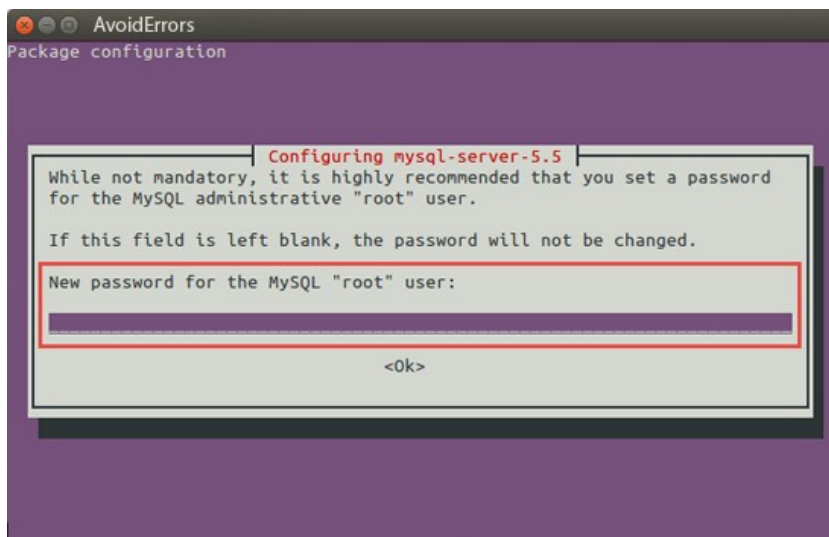
ubuntu@Ubuntu:~\$



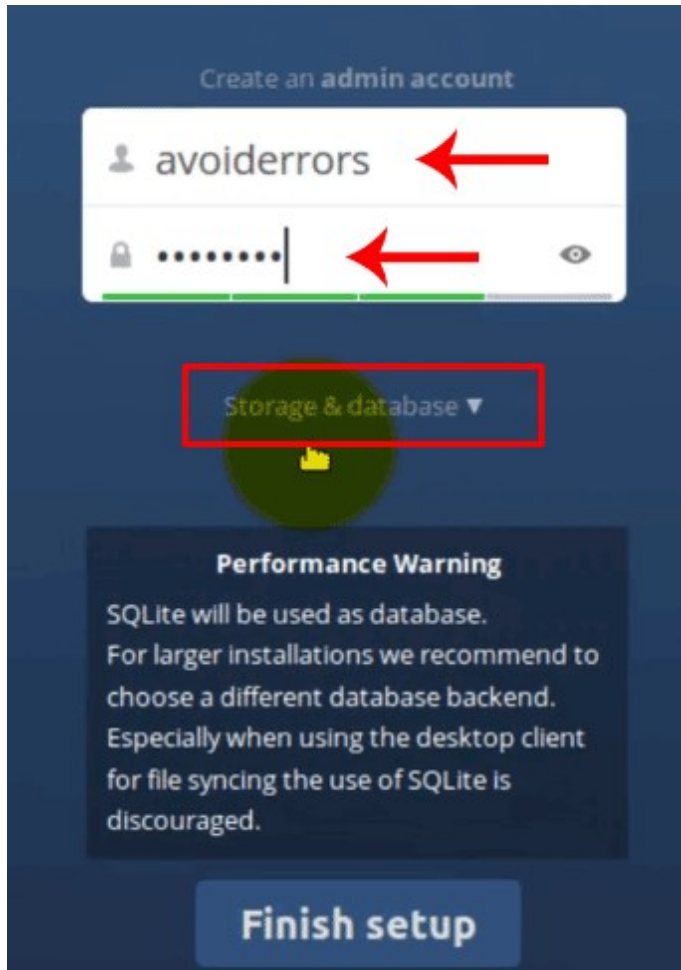
7. Copy and paste the commands into Terminal. Hit the “Enter” key on the keyboard after each command:

```
“ 1. sudo sh -c “echo ‘deb http://download.opensuse.org/repositories/isv:/ownCloud:/community/xUbuntu\_15.04/ /’>> /etc/apt/sources.list.d/owncloud.list”
2. wget http://download.opensuse.org/repositories/isv:ownCloud:community/xUbuntu_15.04/Release.key
3. sudo apt-key add – < Release.key
4. sudo apt-get update
5. sudo apt-get install owncloud
```

8. During the install process, **mySQL** will require to create a “**root**” (admin) user password. Enter a password and confirm re-typing the password on the subsequent screen:



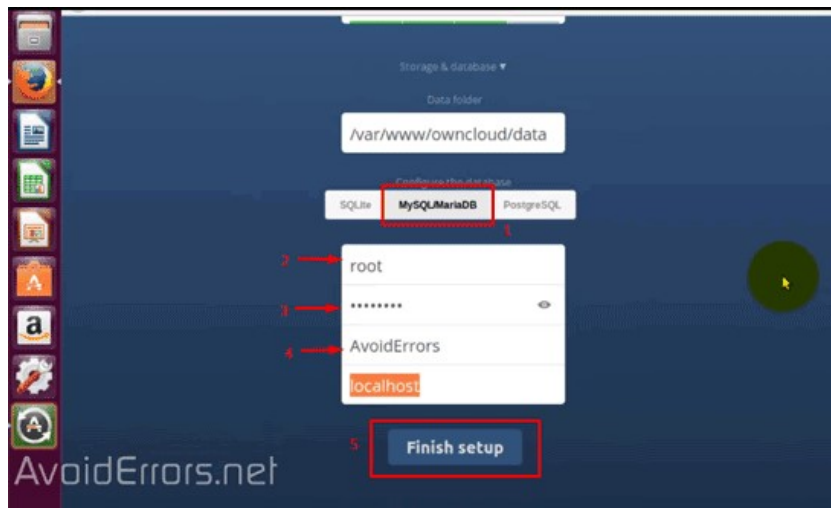
9. Once the text stops moving in Terminal, go to the web browser and enter your hostname address adding **“/owncloud.”** It should look something like this, **“http://avoiderrors.ddns.net/owncloud”**
10. You will be prompted to create admin account and password.
11. Then Click on **Storage & database** drop-down.



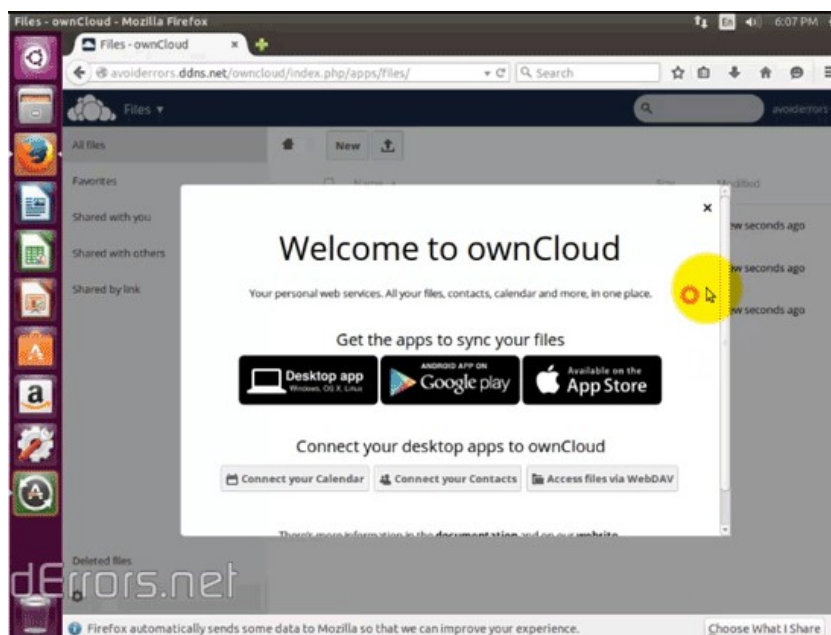
12. From the drop-down options select **“MySQL/MariaDB.”** in the middle for the database.
13. Type **“root”** for the Database user.
14. Enter the password created in **step 8** in the Database password
15. Choose a name for the database in Database name section



16. Then click “**Finish Setup**” button at the bottom.



17. The next page will be an ownCloud popup providing links to different syncing apps for PC, Android and iOS.



18. Your ownCloud installation is now complete!

Now that ownCloud 8 server setup is complete, ownCloud is now accessible from any computer with an internet access. You can also access or sync your mobile devices to ownCloud from any mobile device using the free Android or iOS apps.

Errors

If you encounter the following error:




“ Cannot write into “apps” directory




Then enter the following command in the terminal:

```
“ sudo chown www-data:www-data -R /var/www/owncloud
```

Refresh the web browser and you will be prompted with ownCloud page. Then continue with **step 10**.

 [>](#)

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