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Tutorial Info

Author: howtoforge
Tags: linux, apache, suse, web server

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How To Install ownCloud 7 Server and Client on OpenSuse 13.1

Version 1.0

Author: Srijan Kishore

This document describes how to install and configure ownCloud 7 on OpenSuse 13.1. I will also connect to the ownCloud Server's



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data with OpenSuse 13.1 Desktop, Ubuntu 14.04 desktop and windows 7 machine. ownCloud provides access to your data through a web interface or WebDAV while providing a platform to easily view, sync and share across devices—all under your control. ownCloud's open architecture is extensible via a simple but powerful API for applications and plugins and works with any storage.

1 Preliminary Note

This tutorial is based on OpenSuse 13.1 server, so you should set up a basic OpenSuse 13.1 server installation before you continue with this tutorial. The system should have a static IP address. I use `192.168.0.100` as my IP address in this tutorial and `server1.example.com` as the

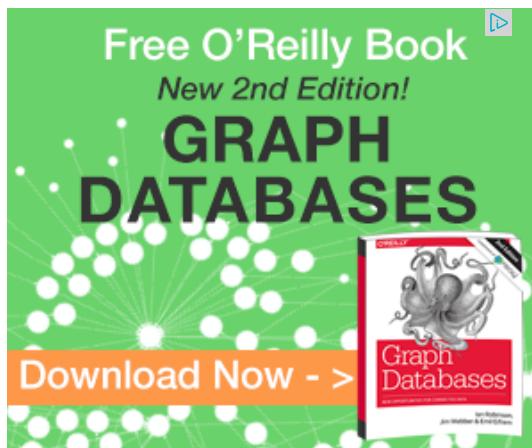
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as IP address of Ubuntu 14.04 Desktop and `desktop2.example.com` as the hostname. I will be using the `user=srijan` for the installation and configuration in both OpenSuse Desktop and Ubuntu Desktop. I will also show the ownCloud sharing options with windows machine, so I have working Windows 7 machine too.

2 Installation of ownCloud 7

ownCloud is a web application that can store and serve content from a centralized location, much like Dropbox. The difference is that ownCloud 7 allows you to host the serving software on your own machines, taking the trust issues out of putting your personal data someone else's server.



We will first download the release key associated with the ownCloud software:

```
zypper addrepo  
http://download.opensuse.org  
/repositories/isv:ownCloud:community  
/openSUSE_13.1  
/isv:ownCloud:community.repo  
zypper refresh
```

Finally, update the package database and install ownCloud:

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```
server1: ~ # zypper install  
owncloud  
Loading repository data...  
Reading installed packages...  
Resolving package  
dependencies...  
  
Problem: owncloud-  
7.0.1-8.1.noarch requires php5,  
but this requirement cannot be  
provided  
    uninsinstallable providers:  
php5-5.4.20-1.2.x86_64[openSUSE-  
13.1-1.10]  
  
php5-5.4.20-1.2.i586[repo-oss]  
  
php5-5.4.20-1.2.x86_64[repo-oss]  
  
php5-5.4.20-12.1.i586[repo-  
update]  
  
php5-5.4.20-16.1.i586[repo-  
update]  
  
php5-5.4.20-21.1.i586[repo-  
update]  
  
php5-5.4.20-4.1.i586[repo-  
update]  
  
php5-5.4.20-8.2.i586[repo-  
update]  
  
php5-5.4.20-12.1.x86_64[repo-  
update]  
  
php5-5.4.20-16.1.x86_64[repo-  
update]  
  
php5-5.4.20-21.1.x86_64[repo-  
update]  
  
php5-5.4.20-4.1.x86_64[repo-  
update]  
  
php5-5.4.20-8.2.x86_64[repo-  
update]  
Solution 1: deinstallation of  
patterns-openSUSE-minimal_base-
```


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```
owncloud-7.0.1-8.1.noarch
Solution 4: break owncloud-
7.0.1-8.1.noarch by ignoring
some of its dependencies
```

*Choose from above solutions by
number or cancel [1/2/3/4/c]
(c): <-1*

ownCloud will install Apache2 with its dependency, if it doesn't get installed automatically manually install apache2:

```
zypper install apache2
```

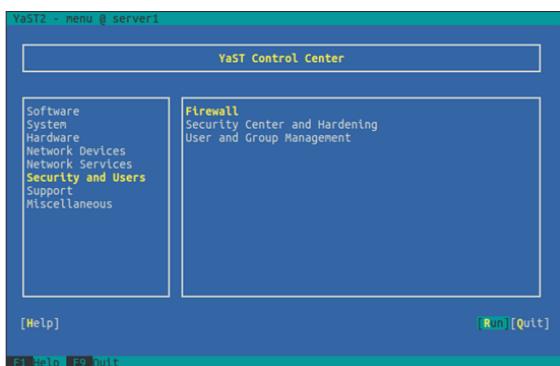
Apache must restart at every boot so we will add it as:

```
systemctl enable apache2.service
systemctl start apache2.service
```

Further we need to allow SELINUX with apache at *http* and *https* as follows:

```
yast2
```

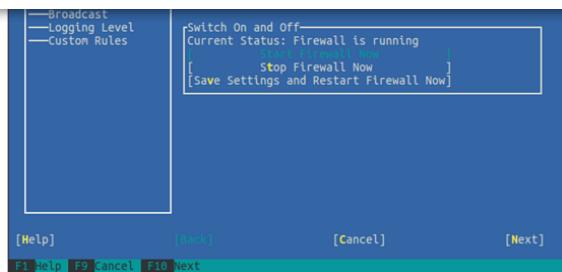
Goto *Security and Users --> Firewall Settings*:



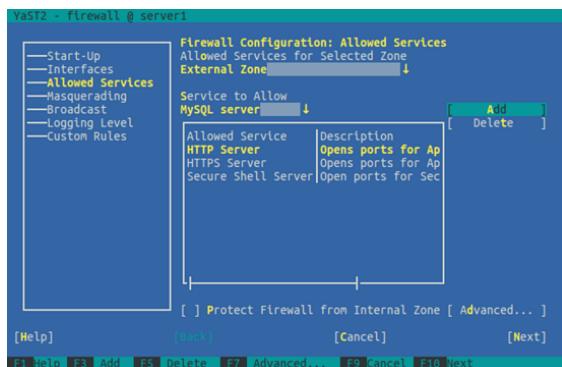
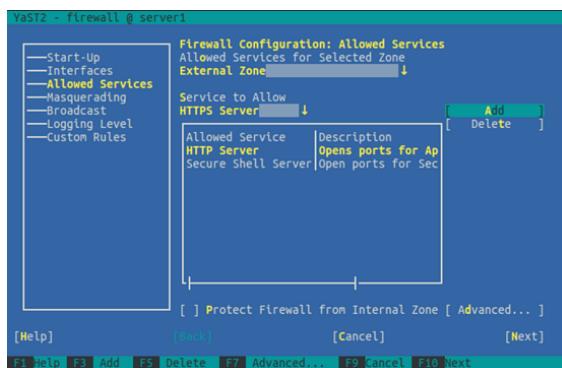
Then goto *Allowed Services*:


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Add two services of apache2 in *External Zone* i.e. *HTTP Server* and *HTTPS Server* in the allowed services for firewall:



After adding the services exit *yast2*.

3 ownCloud 7 configuration on OpenSuse 13.1

Further we need to install Mariadb to get

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```
zypper install mariadb
```

```
systemctl enable mysql.service
systemctl start mysql.service
```

We will be configuring our ownCloud server to take advantage of the more robust MySQL database instead of the SQLite default implementation. To do so, we must configure MySQL first as:

```
mysql_secure_installation
```

```
[root@server1 ~]# 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
SERVERS 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.

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

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authorisation.

```
Set root password? [Y/n]
<--ENTER
New password: <--mariadbpassword>
Re-enter new password:
<--mariadbpassword>
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]
<--ENTER
... Success!
```

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?
[Y/n] <--ENTER
... 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

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```
database...
... Success!
```

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

```
Reload privilege tables now?
[Y/n] <--ENTER
... 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!
server1:~ #
```

Now moving towards the Mysql prompt:

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

Put the Mysql password which you selected
before, & create a database for ownCloud in
Mysql prompt:

```
CREATE DATABASE owncloud;
```

Assign privileges to a new MySQL user to
handle database operations for ownCloud:

```
GRANT ALL ON owncloud.* to
'owncloud'@'localhost' IDENTIFIED BY
'database_password';
```

```
exit
```

Now we need to enable php5 for apache2


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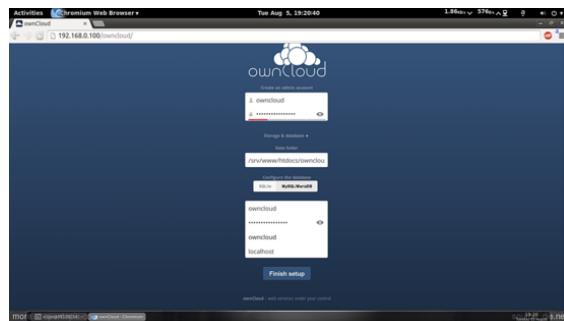
```
vi /srv/www/htdocs/owncloud/.htaccess
```

```
Options +FollowSymLinks  
[...]
```

Now, if you go to your IP address or domain name followed by "/owncloud" in your browser, you will see a page that looks like this:



Click on *Storage & database*:



Now select *MySQL/MariaDB* and create an admin account as in my case I have chosen *owncloud* as my admin account and a desired password for that user:

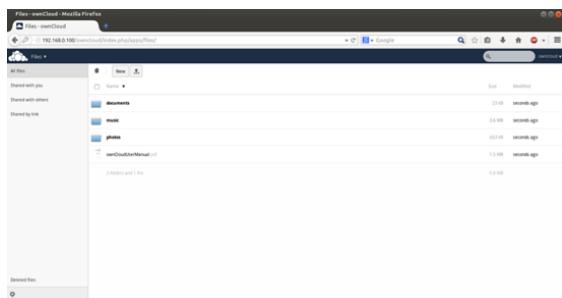
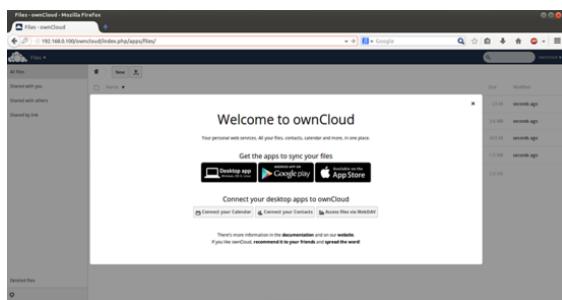


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In the lower tab below the MySQL/MariaDB give the entry of the *username=owncloud*
password=database_password
databasename=owncloud.

Then press *Finish setup*.



4 Mounting the ownCloud 7 share with OpenSuse 13.1 Desktop

We can mount ownCloud-7 share with the OpenSuse 13.1 Desktop through owncloud-client installation. For this run I am running all the commands with the *user=srijan* in my OpenSuse desktop with *desktop1.example.com*:

```
sudo zypper addrepo
http://download.opensuse.org
/repositories/isv:ownCloud:desktop
```

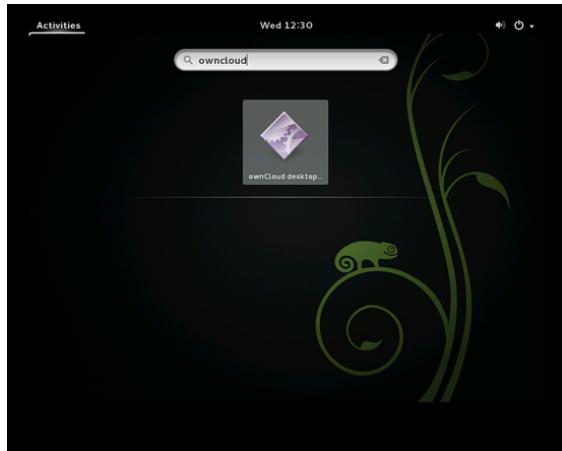
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Check this [link](#) if your OpenSuse Desktop version differs and add your appropriate repository.

Next we need to configure the ownCloud-client as per our OpenSuse ownCloud-server share. Open the ownclient-client:



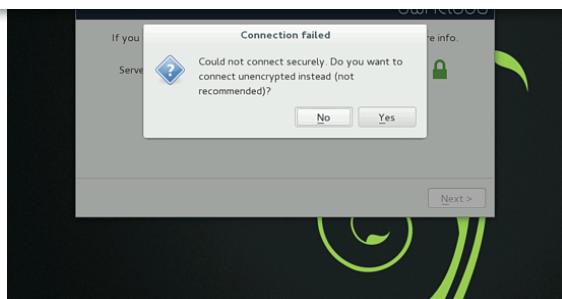
Put the Server Address as
192.168.0.100/owncloud:



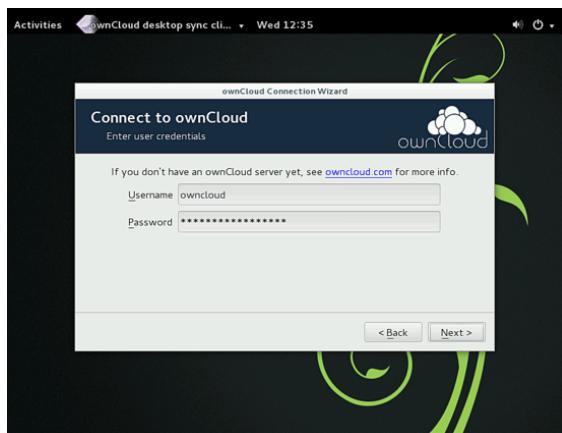
If you have used http then you will get the warning, just press Yes as my connection was not https:

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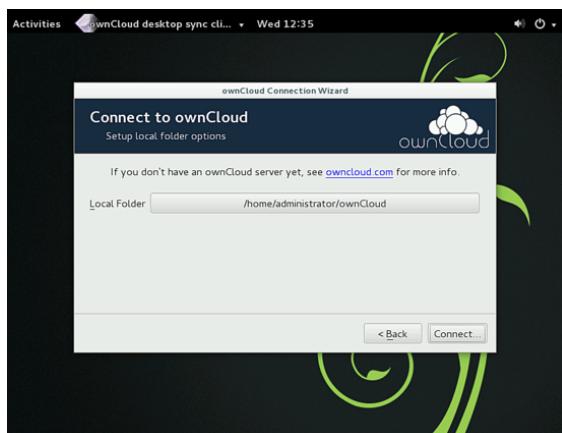
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Put the credentials as in my case it was
Username=owncloud and
password=database_password:



Press *Connect*:



It will connect your system with the OpenSuse server share and the shared data will get synced.


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5 Mounting the ownCloud 7 share with Ubuntu 14.04 Desktop

We can mount the shared point with the other machines, here I will show you the way to process to mount it through WebDAV tools in another Ubuntu Desktop machine. There are two methods to use ownCloud 7 as a client in Ubuntu Desktop.

- Manual mount by giving entries installing davfs2
- By installing ownCloud 7 client

I will explain both of them, you can use any of them to mount.

5.1 Manual mount through davfs2

I am running the command on my second machine `desktop2.example.com`:

```
sudo apt-get update
```

```
sudo apt-get install davfs2
```

We will allow non-root users to mount and unmount the WebDAV shares by typing:

```
sudo dpkg-reconfigure davfs2
```

Should unprivileged users be allowed to mount WebDAV resources?

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```
sudo usermod -aG davfs2 srijan
```

We want to make the permanent mount point in `desktop2.example.com`, so I will give the following entries in the `/etc/fstab`:

```
sudo vi /etc/fstab
```

```
[...]
```

```
192.168.0.100/owncloud/remote.php  
/webdav /home/srijan/owncloud dav  
fs  
user,rw,noauto 0 0
```

Now in `user=srijan`'s home drive I will create directories, one to mount the share point and another to hold the configurations details:



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```
mkdir ~/owncloud
```

```
mkdir ~/.davfs2
```

Further create a file as:

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```
192.168.0.100/owncloud/remote.php  
/webdav owncloud database_password
```

Ensure that the file is writable by only you by using the file manager or by issuing the following command:

```
chmod 600 ~/.davfs2/secrets
```

Now we will mount it as follows:

```
mount owncloud/
```

```
srijan@desktop2:~$ sudo mount  
owncloud/  
Please enter the username to  
authenticate with server  
192.168.0.100/owncloud/remote.php  
/webdav/ or hit enter for none.  
Username: owncloud  
Please enter the password to  
authenticate user owncloud with  
server  
192.168.0.100/owncloud/remote.php  
/webdav/ or hit enter for none.  
Password: database_password  
srijan@desktop2:~$
```

Note: The given credentials will be used further, so please take a note of it:

*Username: **owncloud**
Password: **database_password***

Further if you find any permissions error in the folder then change the folder permission as owner of the user:

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To automatically mount the folder on login at `desktop2.example.com`, add the mount `~/owncloud` command to the `~/.bashrc` file.

```
vi ~/.bashrc
```

```
[...]
```

```
mount ~/owncloud
```

After mounting successfully you can get some error *Resource temporarily unavailable* and *Certificate warnings* then it can be removed as follows:

- For *Resource temporarily unavailable*:

```
vi /etc/davfs2/davfs2.conf
```

```
[...]
```

```
use_locks 0
```

- For *Certificate warnings*:

If you use a self-signed certificate, you will get a warning. If you are willing to take the risk of a man in the middle attack, run this command instead:

```
echo "y" | mount ~/owncloud > /dev/null  
2>&1
```

5.2 ownCloud 7 client installation by ownCloud

Open [link](#) and select the distribution Ubuntu 14.04, further in your Ubuntu Desktop put the commands:

```
cd /tmp  
wget http://download.opensuse.org  
/repositories/isv:ownCloud:desktop
```


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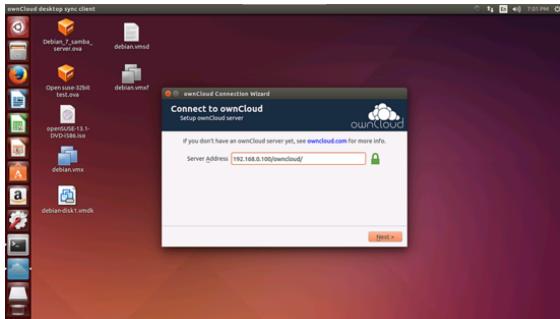
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```
http://download.opensuse.org
/repositories/isv:/ownCloud:/desktop
/xUbuntu_14.04/ /' >> /etc/apt
/sources.list.d/owncloud-client.list"
sudo apt-get update
sudo apt-get install owncloud-client
```

It will install ownCloud-client in the Ubuntu 14.04 Desktop. Thats it open ownCloud-client



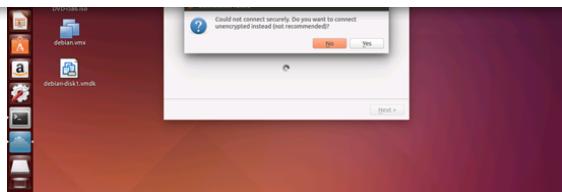
Put the server path as
192.168.0.100/owncloud and then put your credentials of *username=owncloud* and *password=database_password*



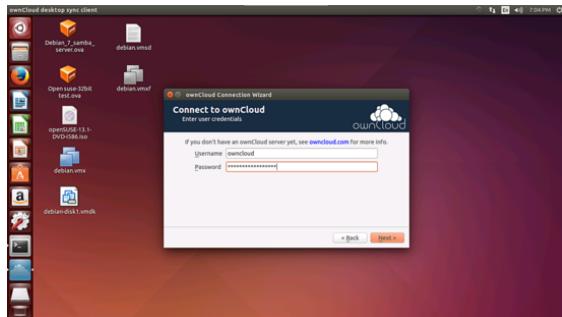
Further if you are using it without *https* then you can ignore the error and move ahead:


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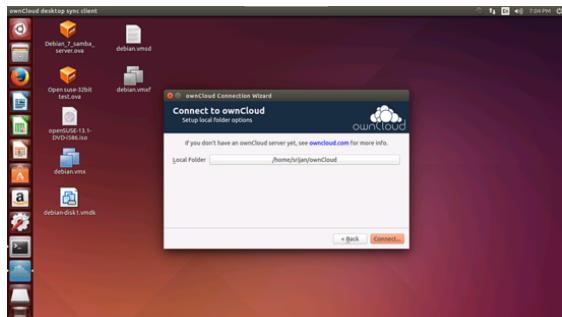
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Again:



Then it will map the ownCloud with your desktop:



And then finally all data will get synced:



6 Mounting the ownCloud 7 share with

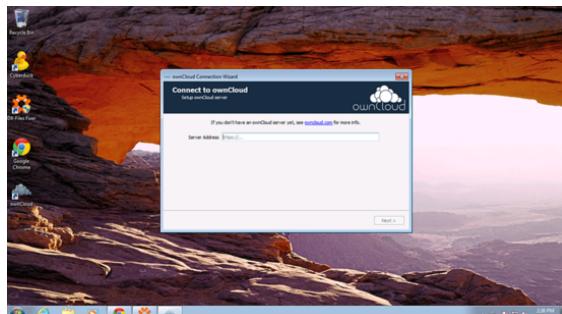
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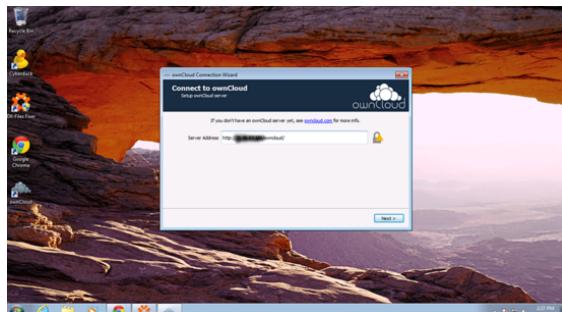
server on a window machine also. There are many methods to this, you can check this [link](#) for them. I will explain two of them.

- I will be using the ownCloud clients for that. Open [link](#) and download the windows client from [here](#)

Simply install the client and it will work for you.



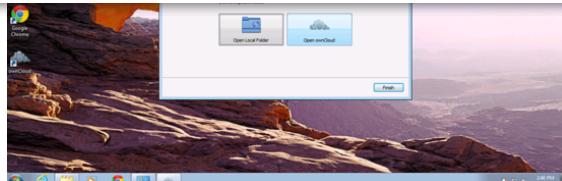
Enter the details `http://192.168.0.100/owncloud`:



Again give your credentials(
`user=owncloud` and `password=database_password`) which we have setup while installing the ownCloud 7 and the window will appear:


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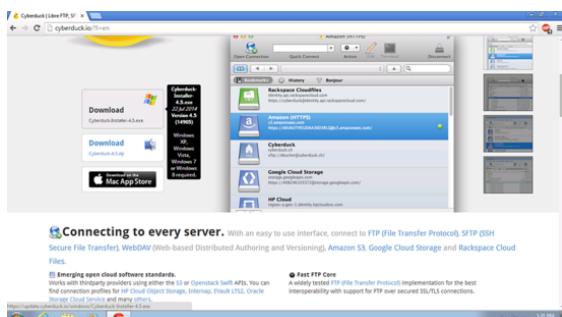


You can open the local folder to access the files locally.

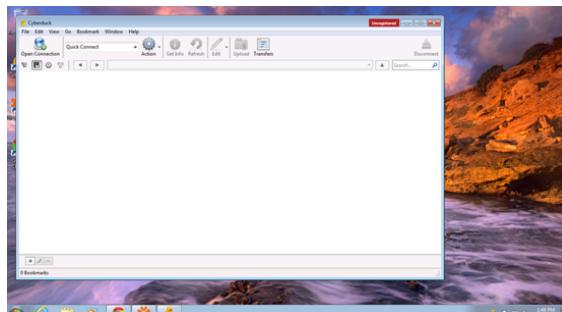
- Cyberduck ver 4.5.

There is another method to access the ownCloud 7 server. I will be using Cyberduck for that. For this you need to install it from this [URL](#).

Download the installer and install it simply by doing next --next.



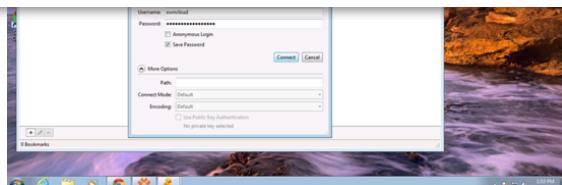
Cyberduck has a very nice user interface.



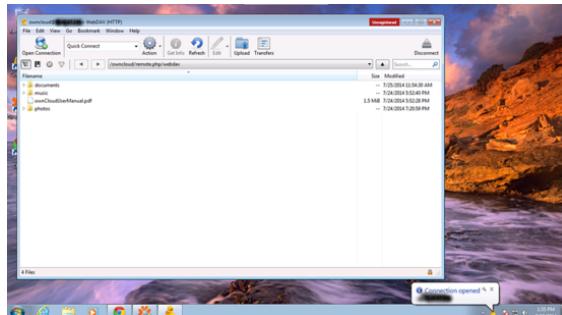
Enter the credentials & connect
192.168.0.100/owncloud
/remote.php/webdav with
user=owncloud and
password=database_password:


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Give the credentials and it will connect.



7 Links

- ownCloud 7 : <https://owncloud.com/>
- Cyberduck : <http://cyberduck.io/?l=en>
- OpenSuse : <http://www.opensuse.org/en/>

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