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## Seafire + Raspberry PI

### Ce este Seafire ?

Seafire este un sistem open source de stocare a fisierelor cu suport avansat pentru sincronizarea acestora si protectie. Seafire este destinat echipelor de programatori deoarece permite utilizatorilor sa creeze grupuri cu fisiere, wiki si discutii. Mai apoi utilizatorii pot discuta pe baza fisierelor. Cu alte cuvinte, Seafire permite o colaborare intre membrii unei echipe.

Fisierele sunt stocate sub forma de librarii, fiecare librerie se poate sincroniza separat si pot fi protejate prin parole. Avantajul aplicatiei Seafire este ca nu stocheaza parolele pe server asa ca nici administratorul nu are acces la fisiere.

Citeste mai multe detalii despre Seafire:

<http://manual.seafire.com/>

### Cum se instaleaza Seafire pe Raspberry PI ?

Raspberry PI este o alegere buna pentru instalarea aplicatiei Seafire deoarece are un consum redus de energie si ruleaza Debian GNU/Linux (Raspbian). Pentru ca Debian este utilizat la scara larga, majoritatea problemelor se pot rezolva rapid prin cautarea solutiilor pe Internet.

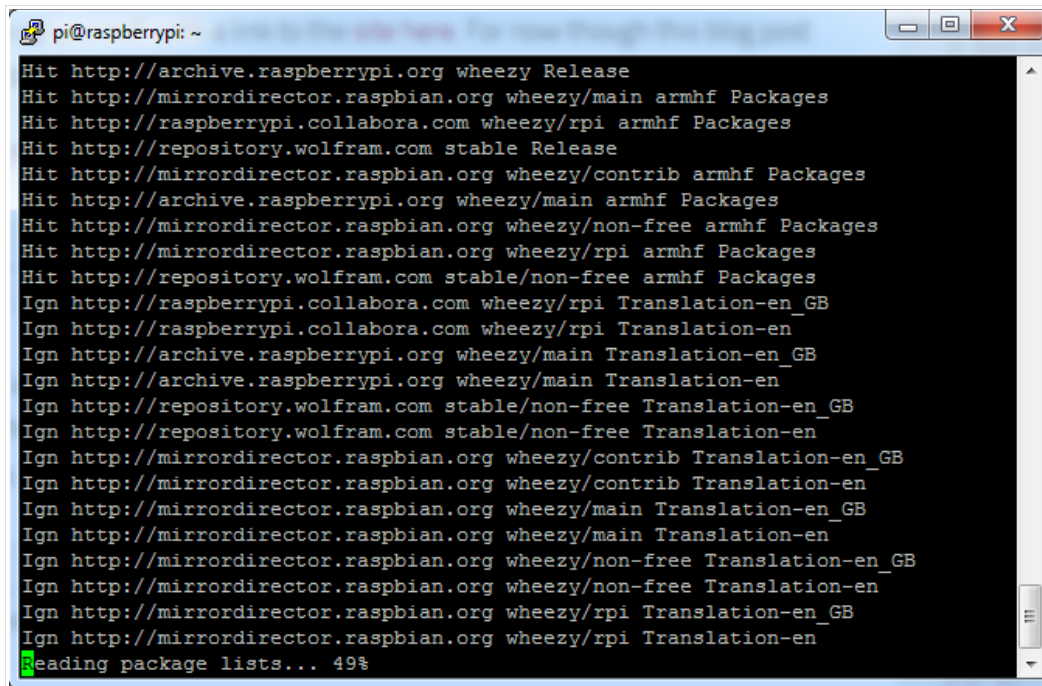
Pentru a instala Seafire vei avea nevoie de o placa Raspberry PI conectata la reseaua de Internet si de un card SD instalat cu sistemul de operare Raspbian. Vei avea nevoie de aplicatia Putty pentru accesarea placii prin SSH.

Pasii necesari instalarii:

1. Realizeaza un update:

<http://www.robofun.ro/forum>

**sudo apt-get update**



```
pi@raspberrypi: ~
Hit http://archive.raspberrypi.org wheezy Release
Hit http://mirrordirector.raspbian.org wheezy/main armhf Packages
Hit http://raspberrypi.collabora.com wheezy/rpi armhf Packages
Hit http://repository.wolfram.com stable Release
Hit http://mirrordirector.raspbian.org wheezy/contrib armhf Packages
Hit http://archive.raspberrypi.org wheezy/main armhf Packages
Hit http://mirrordirector.raspbian.org wheezy/non-free armhf Packages
Hit http://mirrordirector.raspbian.org wheezy/rpi armhf Packages
Hit http://repository.wolfram.com stable/non-free armhf Packages
Ign http://raspberrypi.collabora.com wheezy/rpi Translation-en_GB
Ign http://raspberrypi.collabora.com wheezy/rpi Translation-en
Ign http://archive.raspberrypi.org wheezy/main Translation-en_GB
Ign http://repository.wolfram.com stable/non-free Translation-en_GB
Ign http://repository.wolfram.com stable/non-free Translation-en
Ign http://mirrordirector.raspbian.org wheezy/contrib Translation-en_GB
Ign http://mirrordirector.raspbian.org wheezy/contrib Translation-en
Ign http://mirrordirector.raspbian.org wheezy/main Translation-en_GB
Ign http://mirrordirector.raspbian.org wheezy/main Translation-en
Ign http://mirrordirector.raspbian.org wheezy/non-free Translation-en_GB
Ign http://mirrordirector.raspbian.org wheezy/non-free Translation-en
Ign http://mirrordirector.raspbian.org wheezy/rpi Translation-en_GB
Ign http://mirrordirector.raspbian.org wheezy/rpi Translation-en
Reading package lists... 49%
```

2. Instaleaza dependentele Python si sqlite3:

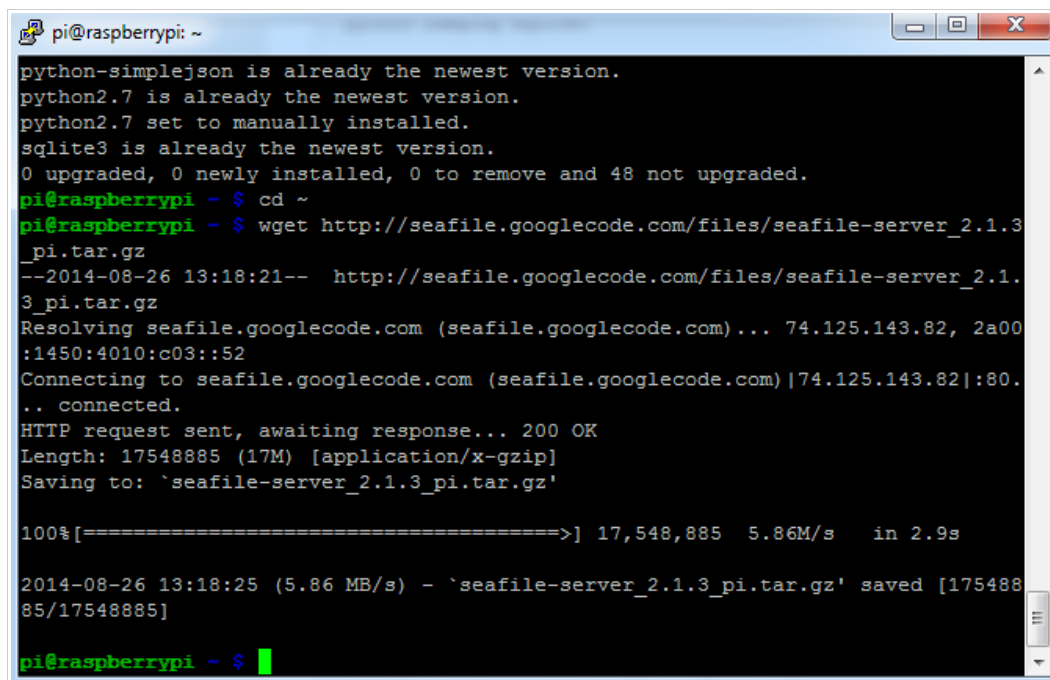
```
sudo apt-get install python2.7 python-setuptools python-simplejson  
python-imaging sqlite3
```

3. Acum este momentul sa descarci Seafile cu wget. Este bine sa verifici versiunea aplicatiei si sa descarci ultima varianta. Poti verifica versiunile aici:

<http://www.seafile.com/en/download/>

```
cd ~
```

```
wget http://seafile.googlecode.com/files/seafile-  
server_2.1.3_pi.tar.gz
```



```
pi@raspberrypi: ~
python-simplejson is already the newest version.
python2.7 is already the newest version.
python2.7 set to manually installed.
sqlite3 is already the newest version.
0 upgraded, 0 newly installed, 0 to remove and 48 not upgraded.
pi@raspberrypi ~ $ cd ~
pi@raspberrypi ~ $ wget http://seafile.googlecode.com/files/seafile-server_2.1.3_pi.tar.gz
--2014-08-26 13:18:21--  http://seafile.googlecode.com/files/seafile-server_2.1.3_pi.tar.gz
Resolving seafile.googlecode.com (seafile.googlecode.com)... 74.125.143.82, 2a00:1450:4010:c03::52
Connecting to seafile.googlecode.com (seafile.googlecode.com)|74.125.143.82|:80.. connected.
HTTP request sent, awaiting response... 200 OK
Length: 17548885 (17M) [application/x-gzip]
Saving to: `seafile-server_2.1.3_pi.tar.gz'

100%[=====>] 17,548,885  5.86M/s  in 2.9s

2014-08-26 13:18:25 (5.86 MB/s) - `seafile-server_2.1.3_pi.tar.gz' saved [17548885/17548885]

pi@raspberrypi ~ $
```

4. Extrage arhiva (prima comanda), creeaza un director (a doua comanda), muta fisierul extras in directorul creat (a treia comanda):

```
tar -xzf seafile-server_*

sudo mkdir seafile_installed

sudo mv seafile-server-2.0.3 seafile_installed
```

5. Executa scriptul de instalare prin urmatoarele 2 comenzi:

```
cd seafile_installed/

./setup-seafile.sh
```

```
pi@raspberrypi: ~/seafile_installed
drwxr-xr-x 2 pi pi 4096 Jan 1 1970 Desktop
-rw-r--r-- 1 pi pi 5781 Feb 3 2013 ocr_pi.png
drwxr-xr-x 7 pi pi 4096 Aug 14 14:09 pyserial-2.6
-rw-r--r-- 1 root root 116289 Nov 2 2011 pyserial-2.6.tar.gz
drwxrwxr-x 2 pi pi 4096 Jan 1 1970 python_games
drwxr-xr-x 6 pi pi 4096 Jan 13 2014 seafile-server-2.1.3
-rw-r--r-- 1 pi pi 17548885 Jan 13 2014 seafile-server_2.1.3_pi.tar.gz
pi@raspberrypi ~ $ sudo mv seafile-server-2.1.3 seafile_installed
pi@raspberrypi ~ $ cd seafile_installed/
pi@raspberrypi ~/seafile_installed $ ./setup-seafile.sh
-----
This script will guide you to config and setup your seafile server.

Make sure you have read seafile server manual at

    https://github.com/haiwen/seafile/wiki

Note: This script will guide your to setup seafile server using sqlite3,
which may have problems if your disk is on a NFS/CIFS/USB.
In these cases, we suggest you setup seafile server using MySQL.

Press [ENTER] to continue
-----
█
```

6. Imediat ce ai pornit ghidul de instalare vei fi indrumat sa configurezi aplicatia Seafile. Tot ce trebuie sa faci este sa urmezi instructiunile de instalare:

```
pi@raspberrypi: ~/seafile_installed
drwxr-xr-x 2 pi pi 4096 Jan 1 1970 Desktop
-rw-r--r-- 1 pi pi 5781 Feb 3 2013 ocr_pi.png
drwxr-xr-x 7 pi pi 4096 Aug 14 14:09 pyserial-2.6
-rw-r--r-- 1 root root 116289 Nov 2 2011 pyserial-2.6.tar.gz
drwxrwxr-x 2 pi pi 4096 Jan 1 1970 python_games
drwxr-xr-x 6 pi pi 4096 Jan 13 2014 seafile-server-2.1.3
-rw-r--r-- 1 pi pi 17548885 Jan 13 2014 seafile-server_2.1.3_pi.tar.gz
pi@raspberrypi ~ $ sudo mv seafile-server-2.1.3 seafile_installed
pi@raspberrypi ~ $ cd seafile_installed/
pi@raspberrypi ~/seafile_installed $ ./setup-seafile.sh
-----
This script will guide you to config and setup your seafile server.

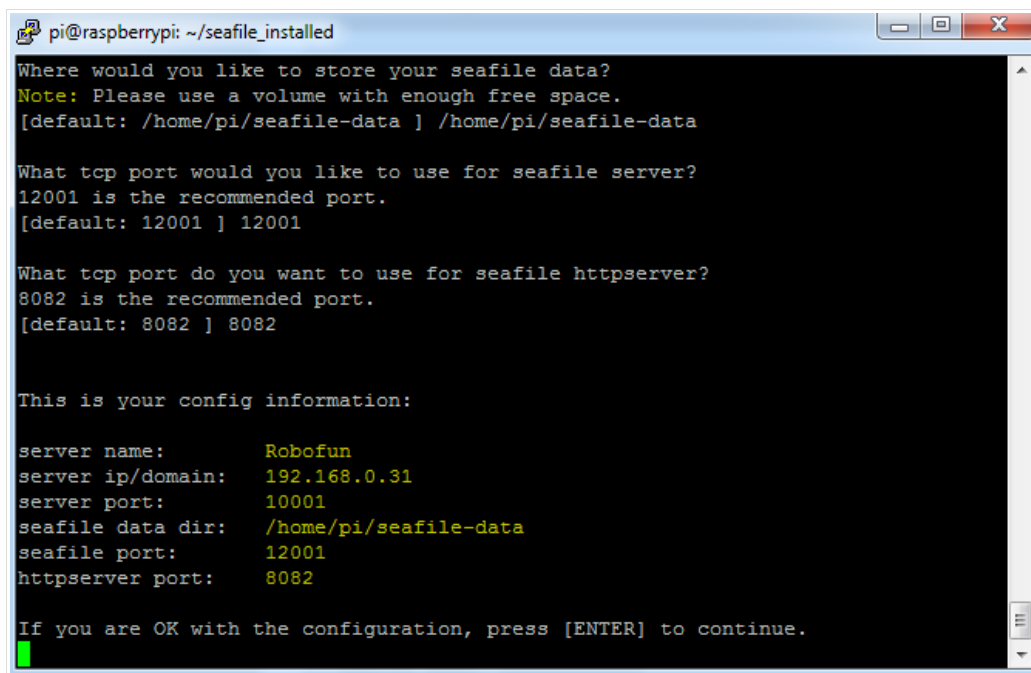
Make sure you have read seafile server manual at

    https://github.com/haiwen/seafile/wiki

Note: This script will guide your to setup seafile server using sqlite3,
which may have problems if your disk is on a NFS/CIFS/USB.
In these cases, we suggest you setup seafile server using MySQL.

Press [ENTER] to continue
-----
█
```

La finalul instructiunilor de configurare vei obtine o imagine asemanatoare:



```
pi@raspberrypi: ~/seafile_installed
Where would you like to store your seafile data?
Note: Please use a volume with enough free space.
[default: /home/pi/seafile-data ] /home/pi/seafile-data

What tcp port would you like to use for seafile server?
12001 is the recommended port.
[default: 12001 ] 12001

What tcp port do you want to use for seafile httpserver?
8082 is the recommended port.
[default: 8082 ] 8082

This is your config information:

server name:      Robofun
server ip/domain: 192.168.0.31
server port:      10001
seafile data dir: /home/pi/seafile-data
seafile port:     12001
httpserver port:  8082

If you are OK with the configuration, press [ENTER] to continue.
█
```

7. Porneste serverul prin comenzile de mai jos:

```
sudo ./seafile.sh start
```


```
sudo ./seahub.sh start
```

8. Acceseaza Seafile tastand adresa de IP a placii:


```
http://192.168.0.31:8000
```


← → ↻ 192.168.0.31:8000/home/my/

System Admin [User] 0 English ↻

 **Seafile** [My Home](#) [Groups](#) [Organization](#) [Help](#)

---

Personal 

 **Libraries**


★ Starred


💬 Messages


💻 Clients


👤 Contacts

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 Links

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Name	Description	Last Update	Operations
 <b>My Library</b>	My Library	26 minutes ago	