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Docker

Install Docker using EPEL. Now, go to the terminal and run this command-lines:

```
$  wget https://dl.fedoraproject.org/pub/epel/epel-release-latest-6.noarch.rpm

$  rpm -ivh epel-release-latest-6.noarch.rpm
```

Create a folder *docker* with two sub-folders:

1. *data*
2. *conf*

Now you'll need the paths of those folders for the next command.

```
 $ sudo docker run --name couchdb_faraday -v
/home/USER/docker/conf/:/usr/local/etc/couchdb/local.d -v
/home/USER/docker/data/:/usr/local/var/lib/couchdb -d -p 5984:5984 couchdb:1.7.1
```

You'll need to have your RedHat's official credentials for the next step

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```
$  subscription-manager repos --enable=rhel-server-rhscl-6-rpms

$  subscription-manager repos --enable=rhel-6-server-optional-rpms
```

System Dependencies

It's time to install some system dependencies Faraday needs!

```
$  yum install gcc libffi-devel openssl-devel python27-python python27-python-devel
libxml2-devel libxslt-devel

$  yum install freetype-devel libpng-devel libsodium-devel
```

```
$   scl enable python27 bash

$    yum install -y python-pip

$    pip install --upgrade pip
```

Python libraries via PIP

```
$   pip install -r requirements_server.txt

$   pip install -r requirements.txt
```

Faraday

Final step! Now all you need to do is Run the server:

```
$   python faraday-server.py (first run to install missing dependencies)
```

Going for it!

Almost there! Start Faraday's server:

```
$ cd faraday
$ ./faraday-server.py
```

And in another terminal start the client runing:

```
$ cd faraday
$ ./faraday.py
```

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To configure RedHat subscription: https://access.redhat.com/labs/registrationassistant/#!/rhel7/

Enable the following repositories:

```
$ subscription-manager repos --enable=rhel-7-server-rpms

$ subscription-manager repos --enable=rhel-7-server-extras-rpms

$ subscription-manager repos --enable=rhel-7-server-optional-rpms
```

Run the following command to install the requirements:

```
$ sudo yum install python-devel gcc mailcap vte3 xorg-x11-xauth gcc python-devel
zsh

Note: mailcap is for mime types.
```

Installing Docker

Let's install Docker:

```
$ sudo yum install docker
```

Now we need to start Docker:

```
$ systemctl start docker.service
```

If you want to configure Docker to start on boot, run the following command:

```
$ systemctl enable docker.service
```

Use Couchdb in a Docker container

Create a folder *docker* with two sub-folders:

1. *data*
2. *conf*

Now you'll need the paths of those folders for the next command.

```
$ sudo docker run --name couchdb_faraday -v
/home/USER/docker/conf/:/usr/local/etc/couchdb/local.d -v
/home/USER/docker/data/:/usr/local/var/lib/couchdb -d -p 5984:5984 couchdb:1.7.1
```

In case you can't start Couchdb container, type the following command:

```
$ sudo docker logs xxx    (where 'xxx' are the first three characters of the
container's ID)
```

Now check if it shows the following error:

```
Error: chown: cannot read directory '/usr/local/var/lib/couchdb': Permission denied
```

In this case, run the following commands:

```
$ su -c "setenforce 0"

$ chcon -Rt svirt_sandbox_file_t $HOME/docker
```

Create couchdb admin

```
$ curl -s -X PUT http://{IP}:{PORT}/_config/admins/{ADMIN_NAME} -d
'"{ADMIN_PASSWORD}"'
```

Example:

```
$ curl -s -X PUT http://localhost:5984/_config/admins/rob -d '"123456"'
```

Install Epel

We require epel Installing for python-pip. Please run the following commands:

```
$ wget https://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm

$ rpm -ivh epel-release-latest-7.noarch.rpm
```

Python libraries via PIP

```
$ sudo pip install -r requirements_server.txt
```

We're almost there. Let's open firewall's port

```
$ sudo firewall-cmd --zone=public --add-port=5985/tcp --permanent

$ sudo firewall-cmd --reload
```

Faraday

Finally, let's run the server

```
$ python2 faraday-server.pyc (first run to install missing dependencies)
```

If you get the following error:

```
Error : AttributeError: 'module' object has no attribute 'OP_NO_TLSv1_1'
```

Don't worry. All you need to do is to run the following command:

```
$ sudo pip install Twisted==16.4.1
```

Going for it!

Almost there! Start Faraday's server:

```
$ cd faraday
$ python2 faraday-server.pyc
```

And in another terminal start the client runing:

```
$ cd faraday
$ python2 faraday.pyc
```