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Topics

Faraday Server

Faraday Server is the interface between CouchDB and Faraday Client sessions. The server's responsibility is to transmit information between the client and CouchDB, and make sure that they are kept in sync. It also serves the Web UI client, which allows you to handle enormous workspaces from your favorite web browser.

Important: You should keep in mind that the Faraday server must be installed on the same machine as CouchDB. **Also Important:** make sure to use version 1.7.1 of CouchDB, as Faraday doesn't support CouchDB version 2.0.

Unfortunately, in various Debian-based systems (Kali, potentially others), CouchDB 1.7.1 does not work (due to upgrades to a new version of Erlang). If this is the case with your OS, we recommend use Couchdb through a [Docker container](#).

Because of this, we are currently working on migrating to another database engine.

Downloading

Download the [latest tarball](#) or clone the [Faraday Git Project](#) repository:

```
$ git clone https://github.com/infobyte/faraday.git faraday-dev
$ cd faraday-dev
```

After doing so, make sure to [install system dependencies](#), [install Python dependencies](#) and [configure the Server](#).

Requirements

Faraday Server is built with minimum requirements. This is by design, so you can install it even on the most bare-bones machine you can possibly imagine.

The Python requirements for the server are stored in the [requirements_server.txt file](#).

Dependency	Version
CouchDB	1.6
Python	2.6 or 2.7
flask	>= 0.10.1
twisted	>= 16.1.1

Dependency	Version
sqlalchemy	>=1.0.12
pyopenssl	>16.0.0
couchdbkit	>=0.6.5
restkit	>=4.2.2
requests	>=2.10.0
flask	>=0.10.1
twisted	>=16.1.1
sqlalchemy	>=1.0.12
pyopenssl	>=16.0.0
service_identity	>=16.0.0

Installing system dependencies

Debian based distributions (Debian, Ubuntu, Backtrack, etc)

You can run the following command to install the required dependencies on any Debian based distribution.

```
$ sudo apt-get update
$ sudo apt-get install build-essential ipython python-setuptools \
    python-pip python-dev libssl-dev libffi-dev couchdb \
    pkg-config libssl-dev libffi-dev libxml2-dev \
    libxslt1-dev libfreetype6-dev libpng12-dev
```

Kali Linux

If you are running Kali, please run the following commands:

```
$ sudo apt-get update
$ sudo apt-get install build-essential ipython python-setuptools \
    python-pip python-dev libssl-dev libffi-dev couchdb \
    pkg-config libssl-dev libffi-dev libxml2-dev \
    libxslt1-dev libfreetype6-dev libpng-dev
```

Gentoo

If you are running Gentoo, this are the dependencies with Emerge:

```
dev-db/couchdb dev-python/flask-sqlalchemy dev-python/service_identity
dev-python/twisted \
dev-python/pyopenssl dev-python/couchdbkit dev-java/mockito dev-python/Whoosh \
dev-python/configargparse dev-python/restkit dev-python/requests
www-servers/tornado \
dev-python/flask dev-python/colorama dev-python/setuptools dev-python/pip
dev-libs/libpqqx \
libffi-dev
```

Others

Please consult with your distribution documentation to install the dependencies listed above.

Installing Python 2 dependencies

Once you have the required system dependencies, you just have to install the Python modules needed to run the server using `pip`:

```
$ pip2 install -r requirements_server.txt
```

Configuration

Faraday Server needs to communicate to Couch Databases to function. By default, the server will listen on port **5985**. You may need to edit `user` and `password` on `~/.faraday/config/server.ini` in case you have set up an admin account on your CouchDB.

Authentication

You can use the CouchDB `_utils` interface (located in `http://127.0.0.1:5984/_utils/`) to create administrator users, and then edit the CouchDB url in your instance with the users credentials. For example: `http://faraday:changeme@192.168.1.254:5985/`

Exposing the Server

If you wish to access the Server from a different box you need to expose the service. In order to do so, edit the server configuration file and set the `bind_address` param to `0.0.0.0`.

Edit the file located in `~/.faraday/config/server.ini` and under the section `[faraday-server]` set the param, it should look something like this:

```
[faraday-server]
...
bind_address=0.0.0.0
```

Then restart the server if you had it running and reload your browser in case you were already trying to access the Web UI from a different IP.

Running

Once everything is installed you need to configure your server properly. Read about [Server Configuration](#).

After configuring, you can proceed to run the Faraday Server script:

```
$ python2 faraday-server.py
```

If you want to run the server in background mode, you should use the `--start` option:

```
$ python2 faraday-server.py --start
```

This is the recommended way to do this. Other methods like using the bash `&` could cause unexpected IOErrors and other related exceptions.

Web UI

Once the server is running, you can access Faraday's Web UI using any browser: just point it to `http://SERVER_IP:SERVER_PORT/_ui` and you can start playing with Faraday.

Faraday Client

Faraday Client is the software which will allow you to work with your favorite security tools and capture their output in an organized manner. It works under a GTK+3 interface with the popular VTE terminal with a custom ZSH shell that respects the user's configuration (yes, that means you get to keep your exact ZSH terminal inside Faraday, even if you use ZPrezto or Oh My ZSH).

From the client you can also create and delete workspaces, specify plugin configuration, view information about your hosts, resolve conflicts that may arise and much more.

It's also a responsibility of the client to send all of the collected information to the server, which will then process it and format it in an friendly way for you to view, edit, and confirm.

The client is bundled in the same package as the server, so if you have already downloaded Faraday, you can skip the next step.

Downloading

Download the [latest tarball](#) or clone the [Faraday Git Project](#) repository:

```
$ git clone https://github.com/infobyte/faraday.git faraday-dev
$ cd faraday-dev
```

Requirements

Faraday Client works under any modern Linux distribution or Mac OS X, and needs the following dependencies:

Dependency	Version
CouchDB	1.6

Dependency Version

Python 2.6 or 2.7

GTK3

PyGobject 3.12.0

Vte API >= 2.90

zsh

CURL

couchdbkit

mockito

whoosh

argparse

IPy

restkit

requests

tornado

flask

colorama

The Python requirements for the client are stored in the [requirements.txt](#) file. Some additional requirements are necessary for specific features to work, these are stored in the [requirements_extras.txt](#) file.

Our tests include [Debian](#), [Ubuntu](#), [Kali](#), [Backtrack](#) and [OSX Sierra](#).

If instead of installing you want to take a quick look at Faraday you can also use [Docker](#).

Installing system dependencies

Debian and derivatives

You can run the following command to install the required dependencies on any Debian based distribution.

```
$ sudo apt-get update
```

If you are running Ubuntu 12.04 LTS, or Ubuntu 14.04 LTS, please execute this command:

```
$ sudo apt-get install libpq-dev python-pip python-dev gir1.2-gtk-3.0  
gir1.2-vte-2.90 python-gobject zsh curl
```

If you are any other version, please execute the following command:

```
$ sudo apt-get install libpq-dev python-pip python-dev gir1.2-gtk-3.0
```

```
gir1.2-vte-2.91 python-gobject zsh curl
```

Gentoo

This are the dependencies for Gentoo with Emerge:

```
dev-libs/gobject-introspection net-libs/webkit-gtk x11-libs/gtk+ \  
x11-libs/vte dev-python/pygobject app-shells/zsh net-misc/curl dev-python/ipython
```

Extras dependencies:

```
dev-python/beautifulsoup dev-python/gevent-psycopg2
```

ArchLinux

Before installing Faraday you will need to get some user-contributed packages. In order to do this quickly we need an [AUR](#) wrapper, in this case we will use [Yaourt](#). After installing Yaourt run:

```
$ yaourt -S python2-dateutil python2-pip mime-types python2-gobject gtk3 vte3  
postgresql-libs
```

Installing Python 2 dependencies

Once you have the required system dependencies, you just have to install the Python modules needed to run the client using `pip`:


```
$ pip2 install -r requirements.txt
```

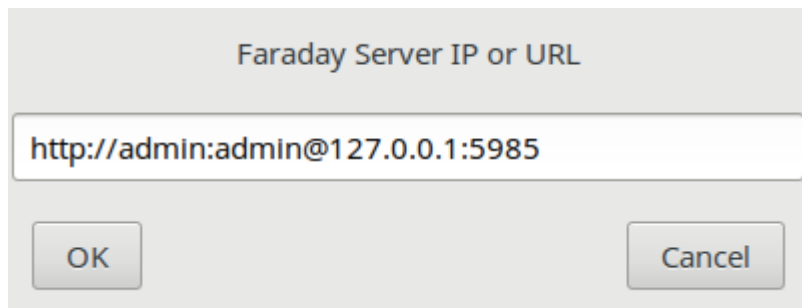
If you are working inside a Virtual Machine you need to follow this extra steps for GTK to work:

```
pip2 install vext  
pip2 install vext.pygtk
```

Configuration

Now you need to configure every Faraday instance so it can connect to the server.

-  and fill in the server URL, for example **http://127.0.0.1:5985**



- If you are using the `--gui=no-gui` option

Edit the file: `~/.faraday/config/user.xml` And search for the following `couch_uri` tag and set it to the server URL, for example:

```
<couch_uri>http://127.0.0.1:5985</couch_uri>
```

Running

Once you have already configured the client and have Faraday Server running, you simply have to run:

```
$ python2 faraday.py
```

Some distributions or installations require additional steps, so look down below if you are using something different than Debian or Ubuntu, or if you need to apply some configuration to the client.

Kali

Faraday comes pre-installed in Kali Rolling. The package name is **python-faraday**. Keep in mind that this package can only be used for the **Community edition**, if you've purchased a **Commercial license** please refer to our documentation for [Pro](#) or [Corp](#) installation.

In order to run Faraday in Kali:

```
$ systemctl start couchdb
$ cd /usr/share/python-faraday
$ python2 faraday-server.py
$ python2 faraday.py
```

Due to Kali's package updates the pre-installed package may not be the last version. If you want the latest updates use the [Debian install steps](#).

Docker

[You can find instructions on how to run the client inside a Docker container here.](#)

OSX

You can find instructions on how to run the client under Mac OSX [here](#).

Chef

If you want to deploy Faraday using Chef, [Sliim](#) made a cookbook for it! You can find it [here](#).