

How to install rxncon – Linux edition



Installing rxncon on Linux

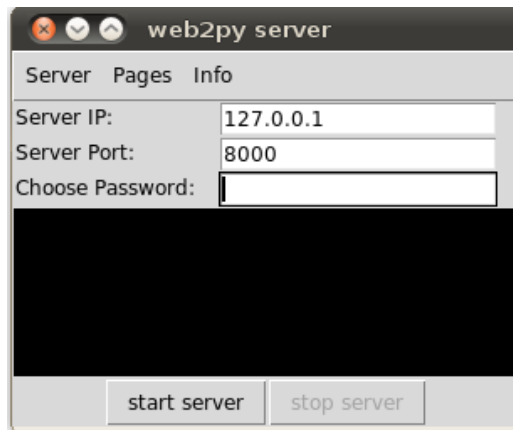
- Download rxncon here: http://www.rxncon.org/rxncon/plugin_release/download and save it on your computer
- Open a terminal window and move to the directory where you have saved the rxncon archive
- Extract the files

```
tar -xzf rxncon_src.tar.gz
```
- Move to the *web2py* directory

- You may now start rxncon:

```
python web2py.py
```

- The *web2py* window opens



- Choose a temporary password and click on "Start server"
- Your browser will automatically open and start the rxncon application
- As a first time user you will be asked to create a user-id

Additional programmes and configuration

To be able to use rxncon, make sure you have done the following things:

Install and Configure BioNetGen

- Download BioNetGen here: http://bionetgen.org/index.php/BioNetGen_Distributions
- Extract the files from the archive
- BioNetGen should be installed now
- Specify the BioNetGen path. You may try:

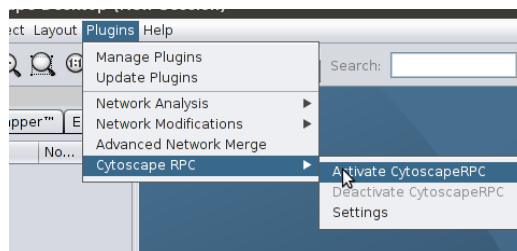
```
dpkg -S BNG2.pl
```
- Copy the line that ends with *BNG2.pl* and paste it into the field for the BNG path (go to the *Configure* page at rxncon)

- Copy the default path for Perl and paste it into the specified field in the configuration menu

`/usr/bin/perl`

Install Cytoscape

- Download cytoscape here <http://www.cytoscape.org/download.html>
- Start Cytoscape
- Install the XMLRPC plugin by selecting: Plugins >Manage Plugins extgreater Available for Install >Communication/Scripting >CytoscapeRPC 1.2
- Start the XMLRPC plugin by selecting: Plugins >Cytoscape RPC >Activate CytoscapeRPC >OK (default options are fine; XML-RPC, Port 9000)



Configure the Biographer path

- Copy and paste the following link into the field for the Biographer path
`http://biographer.biologie.hu-berlin.de/`

Python

- You should use a python version ≥ 2.5

Updating rxncon

- If there is a new version of rxncon available use the *Update* link in the header menu. (A restart of rxncon might be required.)
- The update process will download a web2py application package (*.w2p) and overwrite your current web2py application. All your data will still be available and ready to use with the new rxncon version.
- Some updates may require web2py to be updated. You can update the web2py server by going to `http://127.0.0.1:8000/admin/default/site` and using the *Update now* button.

First test

The installation and configuration is now finished. You may now test the example provided on the rxncon website. By clicking on *Simple example.xls* you will upload a small network. It is the Sho1 branch of the HOG pathway in the yeast *S. cerevisiae*. You can now choose the visualization format by pushing the Graph button. Try SBGN-PD. A new tab should open where you can edit the layout of the network.