

Frequently Asked Questions

Django debug

To get to Django framework access of OpenBACH controller, Go to the URL :

http://@IP_controller:8000/

There you can login with openbach controller users and have access to all OpenBACH controller details. Can be useful to clean data of the controller.

Infludb collector : Chronograf access

If you want a more direct access, Chronograf is installed by default with OpenBACH. Go to the URL :

http://@IP_collector:8888/ to access Chronograf interface.

This is really useful to get data not seen on controller, debug, ...

How can I use graphs in my scientific reports

First off, build the graph you wish to use in the “Graphical Analysis” section and select “Export to SVG” in its own menu. After a quick while, you will be prompted to save the generated SVG.

If your report tool cannot deal with SVG by default, you can convert it to bitmap formats using either [Inkscape](#) or [ImageMagick](#). Commands to convert the SVG file are, for instance:

```
$ inkscape -z -e <output_file>.png <input_file>.svg
$ convert <input_file>.svg <output_file>.png
```

Configure NTP when your platform has not external access

If you want your controller to be a standalone NTP server (this is very useful if your platform is isolated without external access), the ntp service of the Controller needs to synchronize with its own clock. This way, the Controller will be considered synchronized and the Agent will be able to synchronize with it. For that, follow the steps below.

On the Controller

Remove external NTP servers in `/etc/ntp.conf` (i.e. comment the lines with “pool ...” or “server ...”) and make NTP use the local time with the following configuration in the `ntp.conf`:

```
server 127.127.1.0
fudge 127.127.1.0 stratum 9
```

Restart the ntp service (`sudo systemctl restart ntp.service`). To check if it works correctly, do “`ntpq -p`” and you will see something like that:

remote	refid	st	t	when	poll	reach	delay	offset	jitter
*LOCAL(0)	.LOCL.	9	l	4	64	377	0.000	0.000	0.000

On the Agents

Go to /etc/ntp.conf and add "prefer" at the end of the server line:

```
server *your_controller_ip* iburst prefer
```

Restart the ntp service (sudo systemctl restart ntp.service). To check if it works correctly, do "ntpq -p" and you will see something like that:

remote	refid	st	t	when	poll	reach	delay	offset	jitter
your_controller_ip	.INIT.	16	u	31	64	0	0.000	0.000	0.000

How to change the IP address of a Collector/Controller

Starting from OpenBACH 2.0, you can easily modify the IP of an Agent from [the administrative screen of the frontend](#). If the Agent is on a collector, you should see it's updated address in the list of collectors.

Otherwise, before OpenBACH 2.0, we consider herein that the controller and the collector (and their Agent) are on the same host.

- Launch the script change_collector_address of the [Auditorium-scripts](#)

```
./change_collector_address.py old_address new_address --login your_admin_login (by default is openbach)
```

- Change controller IP address on Nginx server. For that, go to "/etc/nginx/sites-available/default" and change the address (e.g. if you use vim, ":%s/old_address/new_address/gc"). And restart Nginx (sudo systemctl restart nginx.service).
- Do not forget to have a default route on your machine (if it is not the case, the controller won't be able to contact its own agent)
- Modify the IP address on the Kibana configuration file ("/etc/kibana/kibana.yml") and restart the service ("sudo systemctl restart kibana.service")
- Modify IP used by rsyslog configuration of their agent. Go to "/etc/rsyslog.d/" and modify the IP address of all openbach files (e.g. sudo sed -i 's/old_address/new_address/g' *)
- In the Grafana dashboard, change IP address of InfluxDB DB on the DataSources sections (except in the case where you specified localhost:8086).

If you want to move only an Agent, you need to:

- Modify Agent IP address on the django database (new_ip_controller:8000/admin/ where login=admin and passwd=admin)). Go to Agents section and modify the IP address of the Agent.

It is also possible to change IP addresses of Controller and Collector if they are on separate hosts

(with some minor differences).

Installing on LXC

OpenBACH agents run seamlessly on ubuntu 16.04 LXC containers. For the controller, check that

- the **acl** packet is installed. If not, it can be installed on the controller lxc by running

```
apt install acl
```

- on the host, set the `vm.max_map_count` to 26214 :

```
sysctl -w vm.max_map_count=262144
```

The rest of the installation process is identical.

From:

<https://wiki.net4sat.org/> - **Net4sat wiki**

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