



Circus is a Python program which can be used to monitor and control processes and sockets.

Installation

Prerequisites

```
# apt-get install libzmq-dev libevent-dev python-dev
```

Pip

```
# pip install circus
```

Git

```
# git clone https://github.com/circus-tent/circus.git  
# cd circus  
# python setup.py
```

Ecosystem

Circus-web

```
# pip install circus-web
```

Chaussette

```
# pip install chaussette
```

circusd

```
root@circus:~# circusd --help
usage: circusd [-h]
               [--log-level {info,debug,critical,warning,error}]
               [--log-output LOGOUTPUT] [--logger-config LOGGERCONFIG]
               [--daemon] [--pidfile PIDFILE] [--version]
               [config]
```

Run some watchers.

Configuration ini

[circus]

Section is responsible for defining the circus control endpoints.

[watcher:NAME]

Section defines the program to be run, and attributes to use.

[socket:NAME]

Defines the socket and its properties

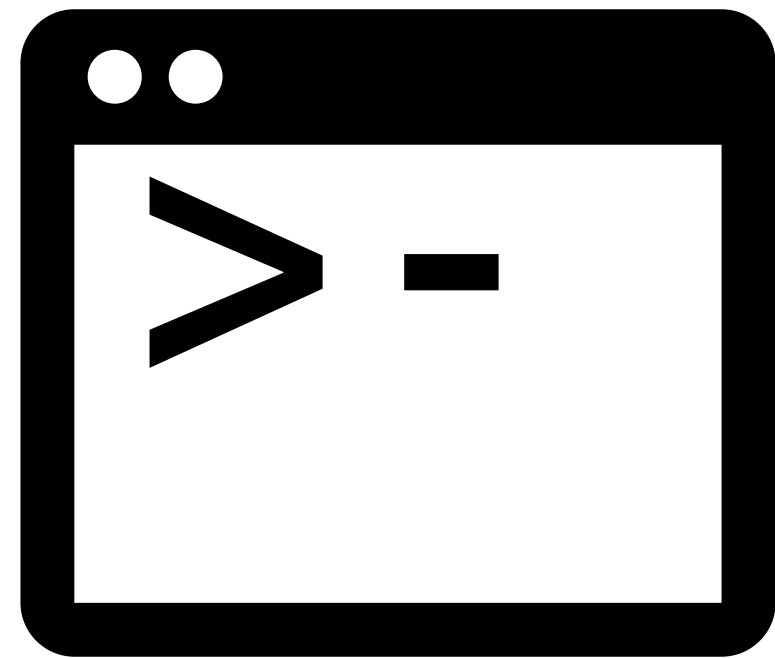
[env:NAME]

This section is responsible for delivering environment variables to running processes.

Interfaces



Browser



Terminal

Terminal tools

circusctl

`circusctl` is a command line interface to control running Circus daemon

circus-top

`circus-top` is a command line tool to see circus daemon stats

Other tools

circusd-stats

```
root@circus:~/circus-breath# circusd-stats --help
usage: circusd-stats [-h] [--endpoint ENDPOINT] [--pubsub PUBSUB]
                    [--statspoint STATSPPOINT] [--log-level LOGLEVEL]
                    [--log-output LOGOUTPUT] [--version] [--ssh SSH]
```

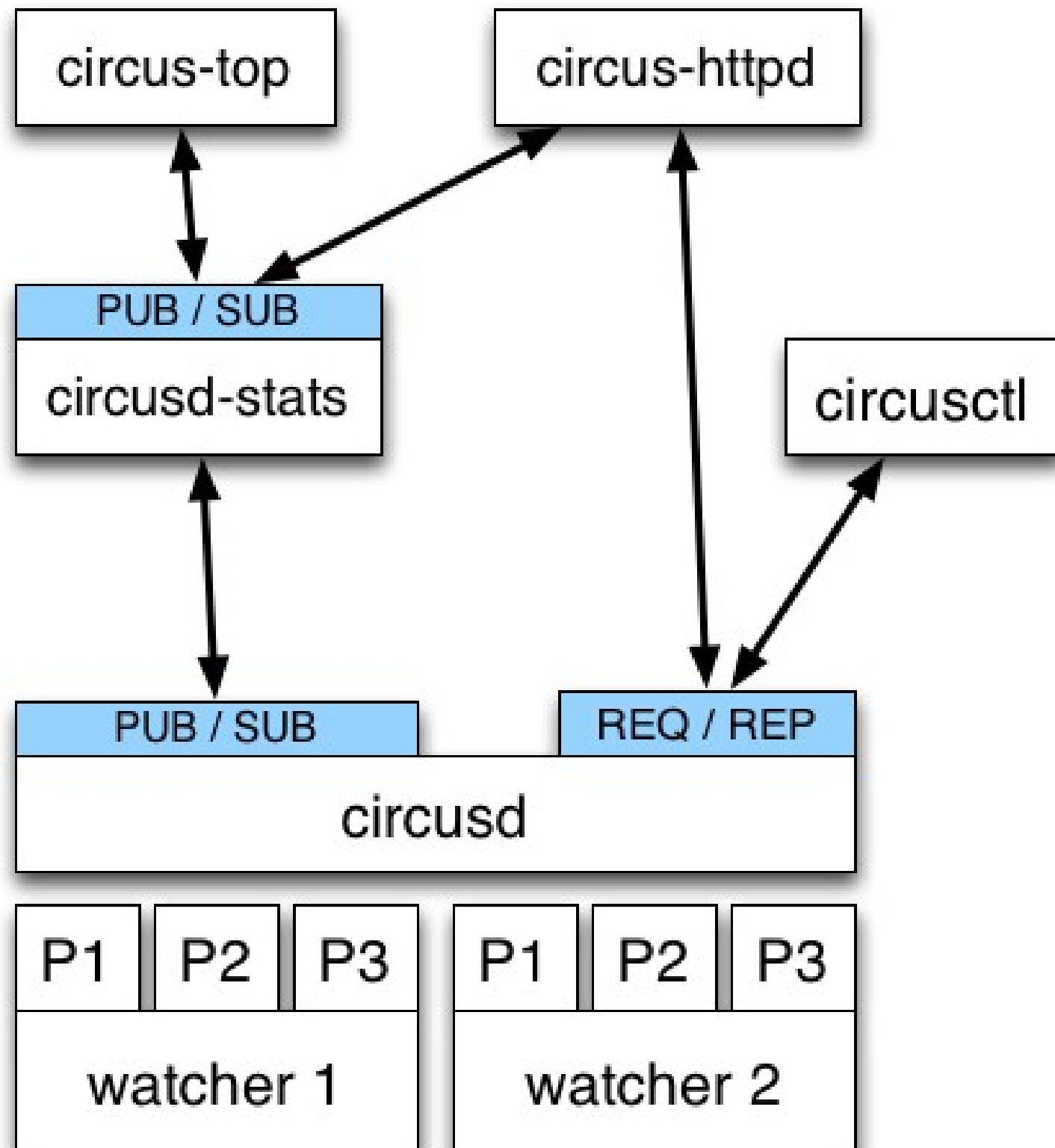
Runs the stats aggregator for Circus

circushttd

```
circushttd --help
usage: circushttd [-h] [--fd FD] [--host HOST] [--port PORT]
                 [--endpoint ENDPOINT] [--version]
                 [--log-level {info,debug,critical,warning,error}]
                 [--log-output LOGOUTPUT] [--ssh SSH]
                 [--multicast MULTICAST]
```

Run the Web Console

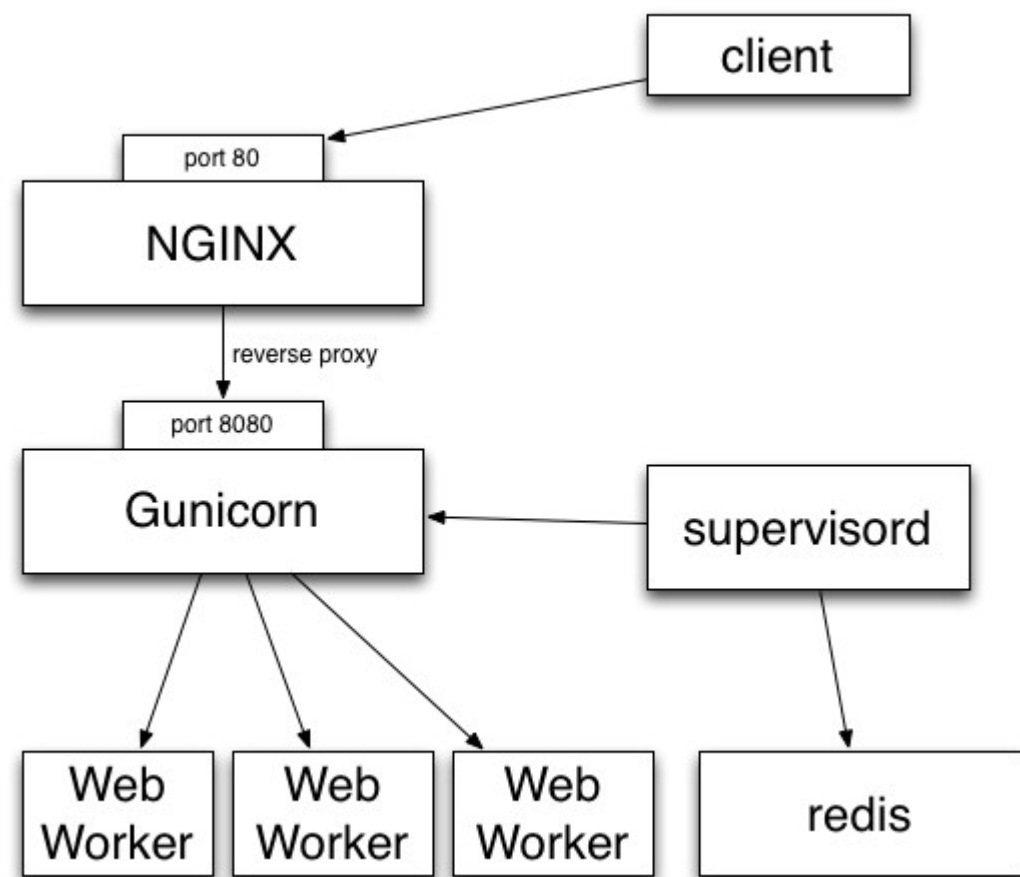
Architecture



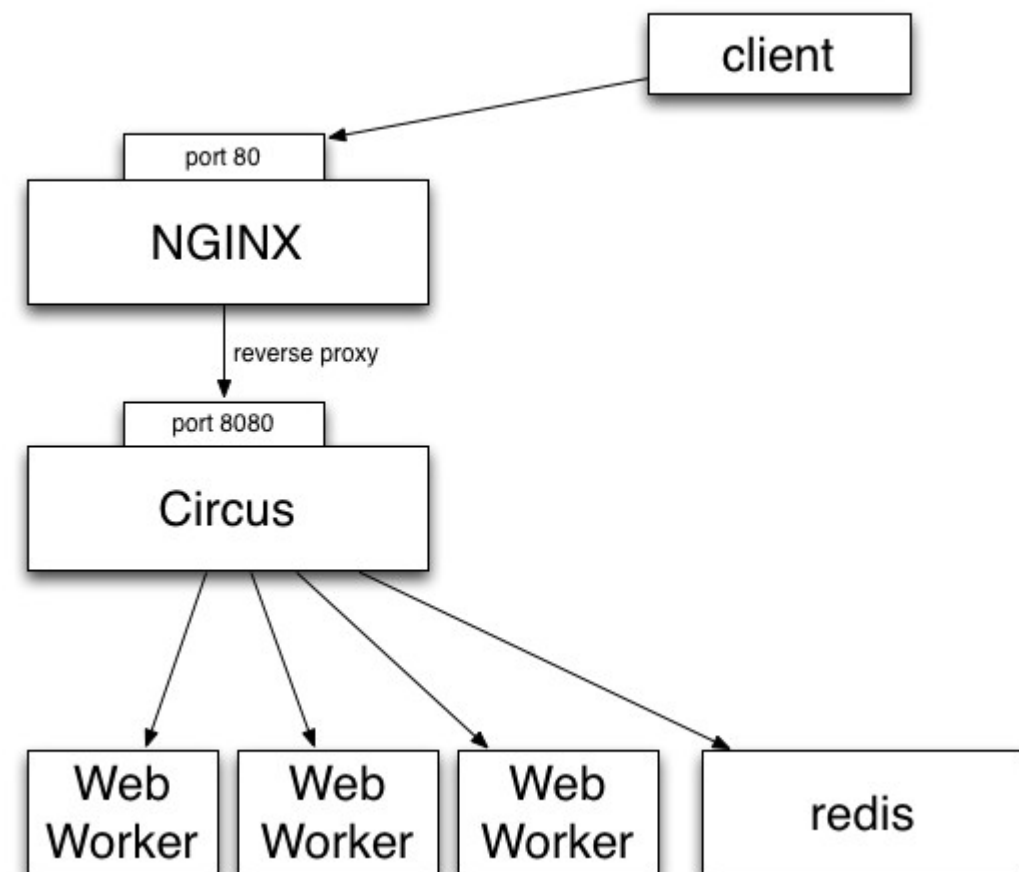
REQ/REP – a socket used to control circusd using json-based commands.

PUB/SUB – a socket where circusd publishes events, like when a process is started or stopped.

vs Supervisord



Supervisor



Circus

Demo time

```
[circus]  
statsd = 1  
httpd = 1  
  
[watcher:webapp]  
cmd = bin/chaussette --fd $(circus.sockets.web)  
numprocesses = 3  
use_sockets = True  
  
[socket:web]  
host = 127.0.0.1  
port = 9999
```