

Swappy

Fast tools for checking swap memory and remove it in gnu/linux system

Installation

```
$ pip install swappy
```

Usage for programming

```
# create automatic procedure
from swappy.swappy import swapcheck_main
config_pathname = "/path/to/config.yml"
swapcheck_main(config_pathname,
                simulation=False,
                display_stdout=True)

# personnal usage
from swappy.swappy import SwapInfo
swap = SwapInfo()
print(swap.swap_memory().percent) # percentage of swap
print(swap.swap_total)           # total swap taken by system
print(swap.count())              # total process found
print(swap.swap_info_text("pid")) # display text/plain output ordering by pid
print(swap.can_reset())          # can we reset swap with left memories?
```

Usage for scripting

```
$ swappy-check --help
Python script to check linux swap pressure
By Mickael Badet (prog at mickbad dot com)
https://github.com/mickbad/swappy

Usage: swappy-check [options] /path/to/config.yml

Options:
  -h, --help  show this help message and exit
  --info      show in stdout swap files if alert [default=False]
  --simulate  simulate resetting swap [default=False]

$ sudo swappy-check /path/to/swappy.yml
Swap Checker v1.0.0
swap pressure: 0.00%
```

Configuration

```

# -----
# - YaML configuration for swappy checker
# -----

# configuration for swap alerting
swap:
  # percent alerting (float) **default = 50.0**
  alert-limit: 20.0

  # ordering for array in template (name, pid or swap)
  order-by: swap

  # reset swap if alert
  reset-swap: True

  # post process after alert
pre-process-alert:
  enable: True
  commands:
    # command list to before resetting
    - apt update
    - ls -lF /tmp

  # post process after alert
post-process-alert:
  enable: True
  commands:
    # command list to after resetting
    - apt update
    - ls -la /tmp

  # send email to adminsys
email:
  enable: True
  from: Alert Swap <my@email.com>
  subject: Alert swap on this server for {dd}/{mm}/{yyyy} - {H}:{M}:{S}
  to: my@email.com, my_another@email.com
  template: |
    <b>Alert swap detected:</b></br />
    ➔ <u>percent info</u>: {swap_percent} %<br />
    ➔ <u>list of pressure</u>:<br />
    {swap_list}<br />
    <br />
    AdminSys<br />

# SMTP Configuraiton
smtp:
  host: localhost
  port: 25
  tls: False
  login:
  password:

```