

LAMPIRAN

1) *Main Script*

```
import rrdtool, os
from prometheus_client import CollectorRegistry, Gauge, push_to_gateway

hosts = ['cloude', 'local_linux_machine', 'leptop']

services =
['mem_free', 'mem_total', 'mem_buffers', 'proc', 'sscpuser', 'mem_swap', 'load', 'uptime']
def cacti(teks):

    result = rrdtool.fetch("/opt/cacti/rra/" + teks, "AVERAGE")

    start, end, step = result[0]
    ds = result[1]
    rows = result[2]

    AVG = 0
    TOTAL = 0
    datavalid = 0
    for row in rows:
        val = row[0]
        if val:
            TOTAL = TOTAL + val
            datavalid = datavalid + 1

    AVG = (TOTAL/datavalid) if int (datavalid) != 0 else 0
    hasil = '%s = %s' %(teks,AVG)
    print(hasil)
    return(AVG)

registry = CollectorRegistry()
file_rrd = os.listdir('/opt/cacti/rra')
for service in services:
    data = Gauge('cacti_%s'%service, 'Cacti %s'%service, ['hostname'], registry=registry)
    for host in hosts:
        file_name = f'{host}_{service}'
        for rrd in file_rrd:
            if rrd.find(file_name) > -1:
                data.labels(host).set(cacti(rrd))

push_to_gateway('localhost:9091', job='Cacti', registry=registry)
```