

一、启动flask 。提供metrics 页面（ 监控类型程序实现，内容为标红字段 ） push_metrics.py

```
#-----
#!/usr/bin/env python
# coding: utf-8
import commands
import prometheus_client
from flask import Response, Flask
from prometheus_client import Gauge
from prometheus_client.core import CollectorRegistry
import os

app = Flask(__name__)

registry = CollectorRegistry()

kafka_ok = Gauge("kafka_ok", "kafka_ok", registry=registry)
kafka_notok = Gauge("kafka_not_ok", "kafka_not_ok", registry=registry)
uic_ok = Gauge("uic_ok", "uic_ok", registry=registry)
uic_notok = Gauge("uic_not_ok", "uic_not_ok", registry=registry)
notice_ok = Gauge("notice_ok", "notice_ok", registry=registry)
notice_notok = Gauge("notice_not_ok", "notice_not_ok", registry=registry)

key_list = {
    "kafka_ok": "HLEN act:present:mobile_phone:add_vip_success",
    "kafka_notok": "GET act:present:mobile_phone:add_vip_failure",
    "uic_ok": "GET act:present:mobile_phone:update_uic_success",
    "uic_notok": "GET act:present:mobile_phone:update_uic_failure",
    "notice_ok": "GET act:present:mobile_phone:notice_success",
    "notice_notok": "GET act:present:mobile_phone:notice_failure",
}
```

```

def get_value(comm):
    command = "/app/scripts/redis-cli -h 主机ip -p 8080 -a 密码 -c %s" % comm
    #resp = commands.getoutput(command)
    a=os.popen(command)
    resp=a.read()
    if not resp:
        resp = 0
    return resp

@app.route("/metrics")
def requests_count():
    for name, key in key_list.items():
        globals().get(name).set(get_value(key))
    return Response(prometheus_client.generate_latest(registry),
        mimetype="text/plain")

if __name__ == "__main__":
    app.run(host="0.0.0.0",port="8090")

```

#-----

二、配置k8s ep (监控主要依赖ep) push_count.yaml

```

apiVersion: v1
kind: Endpoints
metadata:
  name: push-count
  labels:
    k8s-app: push-count #用于关联serviceMonitor
  namespace: kube-system
subsets:
- addresses:
  - ip: python falask服务IP : 端口
  nodeName: push-count

```

ports:

- name: port

port: 8090

三、配置serviceMonitor (selector ep 的 matchLabels) push_count-serviceMonitor.yaml

apiVersion: monitoring.coreos.com/v1

kind: ServiceMonitor

metadata:

name: push-count

labels:

k8s-app: push-count

namespace: kube-system

spec:

endpoints:

- port: port

interval: 5s #采集频率

jobLabel: k8s-app

namespaceSelector:

matchNames:

- kube-system

selector:

matchLabels:

k8s-app: push-count