

GERHARD PEGEL

PROMBIX



LET ME INTRODUCE MYSELF:

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AGE : 43

COMPANY: WEHKAMP

TITLE: CLOUD & MONITORING ENGINEER

FIRST THINGS FIRST

- ▶ Goal
- ▶ Why?
- ▶ How?
- ▶ What's the status?
- ▶ Now what?



GOAL

- ▶ Create a tool to combine best of 2 worlds like monitoring Cloud services and On-Prem systems.
- ▶ Automatically discover Prometheus end-points to collect metrics.
- ▶ Code this in Python so anyone should be able to use it.
- ▶ Make it open source so anyone is able to contribute to it.

WHY?

- ▶ One tool to rule them all!
- ▶ Level-up my basic Python coding skills.
- ▶ Because it is fun to do.

HOW?

- ▶ Combine tools like:

- Zabbix
- Prometheus
- Grafana
- Consul
- Jenkins
- ...

- ▶ While using:

- Git
- Docker
- Python3
- ...

WHAT'S THAT STATUS?

- ▶ Silly question, it's never done.
- ▶ Show a live demo

NOW WHAT?

- ▶ It's still 'Work In Progress'
- ▶ Feel free to contribute

ANY QUESTIONS?


```

client = docker.from_env()

print('Hello, ' + os.getlogin() + '! Please wait while all c

zabbix = client.containers.run("zabbix/zabbix-appliance:late
    name="zabbix-monitoring",
    ports={'80/tcp': 81},
    detach=True)

zabbix_agent = client.containers.run("zabbix/zabbix-agent:la
    name="zabbix-agent",
    links={'zabbix-monitoring': 'zabbix-server'},
    volumes={'/Users/gpegel/Git/prombix/config/zabbix_config
    detach=True)

grafana = client.containers.run("grafana/grafana:latest",
    name="grafana",
    ports={'3000/tcp': 3000},
    environment=["GF_INSTALL_PLUGINS=grafana-clock-panel,gra
    links={'zabbix-monitoring': 'zabbix-server'},
    detach=True)

prometheus = client.containers.run("prom/prometheus:latest",
    name="prometheus",
    ports={'9090/tcp': 9090},
    volumes={'/Users/gpegel/Git/prombix/config/prometheus_co
    detach=True)

def get_ip(container, network_name="bridge"):
    nw = client.networks.get(network_name)
    ip = [_.attrs['NetworkSettings']['Networks']['bridge']['
    return ip

zabbix_ip = get_ip(zabbix)
zabbix_agent_ip = get_ip(zabbix_agent)
grafana_ip = get_ip(grafana)
prometheus_ip = get_ip(prometheus)

print("IP of Zabbix Server in Docker network is : " + zabbix
print("IP of Zabbix Agent in Docker network is : " + zabbix_
print("IP of Grafana in Docker network is : " + grafana_ip +
print("IP of Prometheus in Docker network is : " + prometheu

print("Containers started. have a nice day!\n")

```

GITHUB REPO:

[HTTPS://GITHUB.COM/GPEGEL/PROMBIX](https://github.com/gpegel/prombix)

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