```
ubuntu@ip-172-31-35-167:~/observability-stack-proj2$ docker ps
CONTAINER ID   IMAGE                        COMMAND                  CREATED         STATUS                   PORTS
                                                                                                              NAMES
7efae6c949fd   grafana/promtail:3.2.1       "/usr/bin/promtail -…"   3 minutes ago   Up 3 minutes
                                                                                                              obs-promtail-1
1dd6a841a007   sample-app:latest            "uvicorn app:app --h…"   3 minutes ago   Up 3 minutes (unhealthy)   0.0.0.0:5000->5000/tcp, :::5000->5000/tcp
                                                                                                              obs-app-1
e4e4ed2b46b6   jaegertracing/all-in-one:1.58   "/go/bin/all-in-one-…"   3 minutes ago   Up 3 minutes            5775/udp, 5778/tcp, 9411/tcp, 0.0.0.0:4317-4318->4317-4318/tcp, :::4317-4318->4317-4318/tcp, 0.
0.0.0:14268->14268/tcp, :::14268->14268/tcp, 0.0.0.0:16686->16686/tcp, :::16686->16686/tcp, 6831-6832/udp, 14250/tcp   obs-jaeger-1
ubuntu@ip-172-31-35-167:~/observability-stack-proj2$
```

```
ubuntu@ip-172-31-35-167:~/observability-stacks docker ps -a
CONTAINER ID   IMAGE                          COMMAND                  CREATED          STATUS                     PORTS
                                                                                                                  NAMES
0c4b97ac45c3   grafana/grafana:11.1.3         "/run.sh"                26 minutes ago   Exited (1) 23 minutes ago
                                                                                                                  obs-grafana-1
7efae6c949fd   grafana/promtail:3.2.1         "/usr/bin/promtail -…"   26 minutes ago   Up 26 minutes
                                                                                                                  obs-promtail-1
cf5a3ad6e682   grafana/loki:3.2.1             "/usr/bin/loki -conf…"   26 minutes ago   Exited (1) 23 minutes ago
                                                                                                                  obs-loki-1
c76505357a6e   prom/prometheus:v2.54.1        "/bin/prometheus --c…"   26 minutes ago   Exited (2) 23 minutes ago
                                                                                                                  obs-prometheus-1
1dd6a841a007   sample-app:latest              "uvicorn app:app --h…"   26 minutes ago   Up 26 minutes (unhealthy)
                                                                                                                  obs-app-1
e4e4ed2b46b6   jaegertracing/all-in-one:1.58  "/go/bin/all-in-one-…"   26 minutes ago   Up 26 minutes              5775/udp, 5778/tcp, 9411/tcp, 0.0.0.0:4317-4318->4317-4318/tcp, :::4317-4318->4317-4318/tcp,
0.0.0.0:14268->14268/tcp, :::14268->14268/tcp, 0.0.0.0:16686->16686/tcp, :::16686->16686/tcp, 6831-6832/udp, 14250/tcp   obs-jaeger-1
```

Project st... × | Instances × | 13.201.12... × | 13.201.12... × | Promethe... × | App: Full × | Alerting - × | Jaeger UI × | 13.201.12... × | observabi... × | +

← → C | ⚠ Not secure | 13.201.122.248:5000/metrics | ☆ ⤢ | s | ⋮

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```
python_gc_objects_collected_total{generation="2"} 0.0
# HELP python_gc_objects_uncollectable_total Uncollectable objects found during GC
# TYPE python_gc_objects_uncollectable_total counter
python_gc_objects_uncollectable_total{generation="0"} 0.0
python_gc_objects_uncollectable_total{generation="1"} 0.0
python_gc_objects_uncollectable_total{generation="2"} 0.0
# HELP python_gc_collections_total Number of times this generation was collected
# TYPE python_gc_collections_total counter
python_gc_collections_total{generation="0"} 172.0
python_gc_collections_total{generation="1"} 15.0
python_gc_collections_total{generation="2"} 1.0
# HELP python_info Python platform information
# TYPE python_info gauge
python_info{implementation="CPython",major="3",minor="11",patchlevel="13",version="3.11.13"} 1.0
# HELP process_virtual_memory_bytes Virtual memory size in bytes.
# TYPE process_virtual_memory_bytes gauge
process_virtual_memory_bytes 3.0615552e+08
# HELP process_resident_memory_bytes Resident memory size in bytes.
# TYPE process_resident_memory_bytes gauge
process_resident_memory_bytes 5.015552e+07
# HELP process_start_time_seconds Start time of the process since unix epoch in seconds.
# TYPE process_start_time_seconds gauge
process_start_time_seconds 1.75583653251e+09
# HELP process_cpu_seconds_total Total user and system CPU time spent in seconds.
# TYPE process_cpu_seconds_total counter
process_cpu_seconds_total 8.58
# HELP process_open_fds Number of open file descriptors.
# TYPE process_open_fds gauge
process_open_fds 16.0
# HELP process_max_fds Maximum number of open file descriptors.
# TYPE process_max_fds gauge
process_max_fds 1.048576e+06
# HELP http_requests_total Total HTTP requests
# TYPE http_requests_total counter
# HELP http_request_duration_seconds Request latency
# TYPE http_request_duration_seconds histogram
http_request_duration_seconds_bucket{le="0.005"} 0.0
http_request_duration_seconds_bucket{le="0.01"} 0.0
http_request_duration_seconds_bucket{le="0.025"} 0.0
http_request_duration_seconds_bucket{le="0.05"} 0.0
http_request_duration_seconds_bucket{le="0.1"} 0.0
http_request_duration_seconds_bucket{le="0.25"} 0.0
http_request_duration_seconds_bucket{le="0.5"} 0.0
http_request_duration_seconds_bucket{le="1.0"} 0.0
http_request_duration_seconds_bucket{le="2.0"} 0.0
http_request_duration_seconds_bucket{le="5.0"} 0.0
```

Prometheus Alerts Graph Status ▾ Help

☑ Use local time ☐ Enable query history ☑ Enable autocomplete ☑ Enable highlighting ☑ Enable linter

```
rate(http_requests_total[1m])
```

🔍

Execute

Table Graph

Load time: 104ms Resolution: 14s Result series: 2

‹ Evaluation time ›

{app="sample-app", instance="app:5000", job="sample-app", method="GET", path="/work", status="500"}   2.8888888888888884

{app="sample-app", instance="app:5000", job="sample-app", method="GET", path="/work", status="200"}   25.066666666666663

Remove Panel

Add Panel

ready
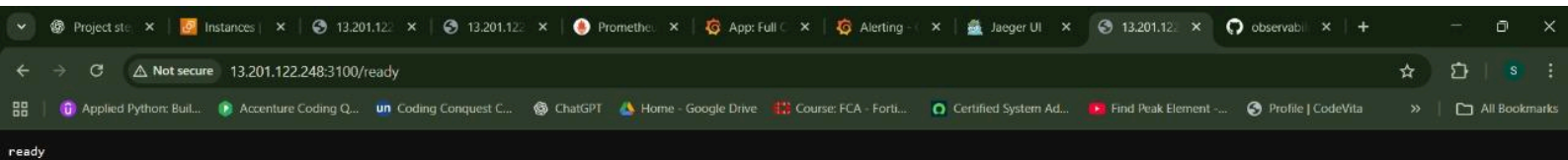
```
498: 200
499: 200
ubuntu@ip-172-31-35-167:~/observability-stack-proj2$ docker ps -a
CONTAINER ID    IMAGE                         COMMAND                 CREATED           STATUS                  PORTS
                                                                                                                NAMES
4af301f75920    grafana/grafana:11.1.3        "/run.sh"               About an hour ago Up About an hour        0.0.0.0:3000->3000/tcp, :::3000->3000/tcp
                                                                                                                obs-grafana-1
7efae6c949fd    grafana/promtail:3.2.1        "/usr/bin/promtail -…"  3 hours ago       Up 3 hours
                                                                                                                obs-promtail-1
cf5a3ad6e682    grafana/loki:3.2.1            "/usr/bin/loki -conf…"  3 hours ago       Up 57 minutes           0.0.0.0:3100->3100/tcp, :::3100->3100/tcp
                                                                                                                obs-loki-1
c76505357a6e    prom/prometheus:v2.54.1       "/bin/prometheus --c…"  3 hours ago       Up About an hour        0.0.0.0:9090->9090/tcp, :::9090->9090/tcp
                                                                                                                obs-prometheus-1
1dd6a841a007    sample-app:latest             "uvicorn app:app --h…"  3 hours ago       Up 3 hours (unhealthy)  0.0.0.0:5000->5000/tcp, :::5000->5000/tcp
                                                                                                                obs-app-1
e4e4ed2b46b6    jaegertracing/all-in-one:1.58 "/go/bin/all-in-one-…"  3 hours ago       Up 3 hours              5775/udp, 5778/tcp, 9411/tcp, 0.0.0.0:4317-4318->4317-4318/tcp, :::4317-4318->4317-4318/tcp,
0.0.0.0:14268->14268/tcp, :::14268->14268/tcp, 0.0.0.0:16686->16686/tcp, :::16686->16686/tcp, 6831-6832/udp, 14250/tcp    obs-jaeger-1
ubuntu@ip-172-31-35-167:~/observability-stack-proj2$
```

{"status":"ok"}
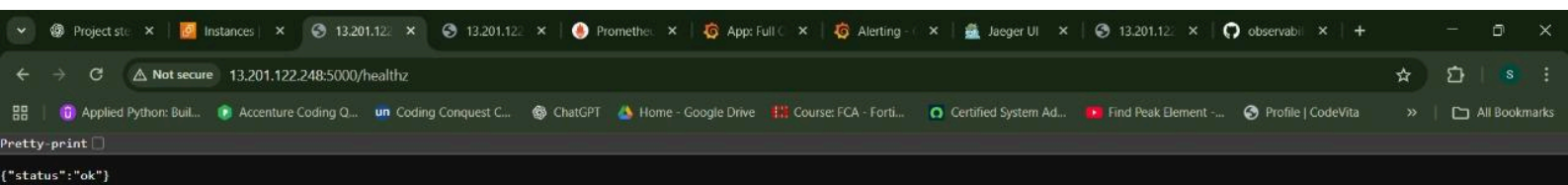
```
ubuntu@ip-172-31-35-167:~/observability-stack-proj2$ python3 traffic.py
0: 200
1: 200
2: 200
3: 200
4: 500
5: 200
6: 200
7: 200
8: 200
9: 200
10: 200
11: 200
12: 200
13: 500
14: 200
15: 500
16: 200
17: 200
18: 200
19: 500
20: 200
21: 200
22: 200
23: 200
24: 200
25: 200
26: 200
27: 200
28: 500
29: 200
30: 200
31: 500
32: 200
33: 200
34: 500
35: 200
36: 200
37: 500
38: 500
39: 200
40: 200
41: 200
42: 200
43: 500
44: 200
45: 200
46: 200
47: 200
48: 200
49: 200
50: 200
51: 200
52: 200
53: 200
54: 200
55: 200
56: 200
```