



链滴

# prometheus 监控 zookeeper

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原文链接: <https://ld246.com/article/1575868724409>

来源网站: [链滴](#)

许可协议: [署名-相同方式共享 4.0 国际 \(CC BY-SA 4.0\)](#)

# zookeeper 监控

git项目地址: [https://github.com/jiankunking/zookeeper\\_exporter](https://github.com/jiankunking/zookeeper_exporter)

exporter下载地址: [https://github.com/carlpett/zookeeper\\_exporter/releases/download/v1.0.2/zookeeper\\_exporter](https://github.com/carlpett/zookeeper_exporter/releases/download/v1.0.2/zookeeper_exporter)

注意: export适合zookeeper3.4+

①下载zookeeper\_export

wget [https://github.com/carlpett/zookeeper\\_exporter/releases/download/v1.0.2/zookeeper\\_exporter](https://github.com/carlpett/zookeeper_exporter/releases/download/v1.0.2/zookeeper_exporter)

②启动zookeeper\_export

nohup /usr/local/bin/zookeeper\_exporter >>/dev/null 2>&1 &

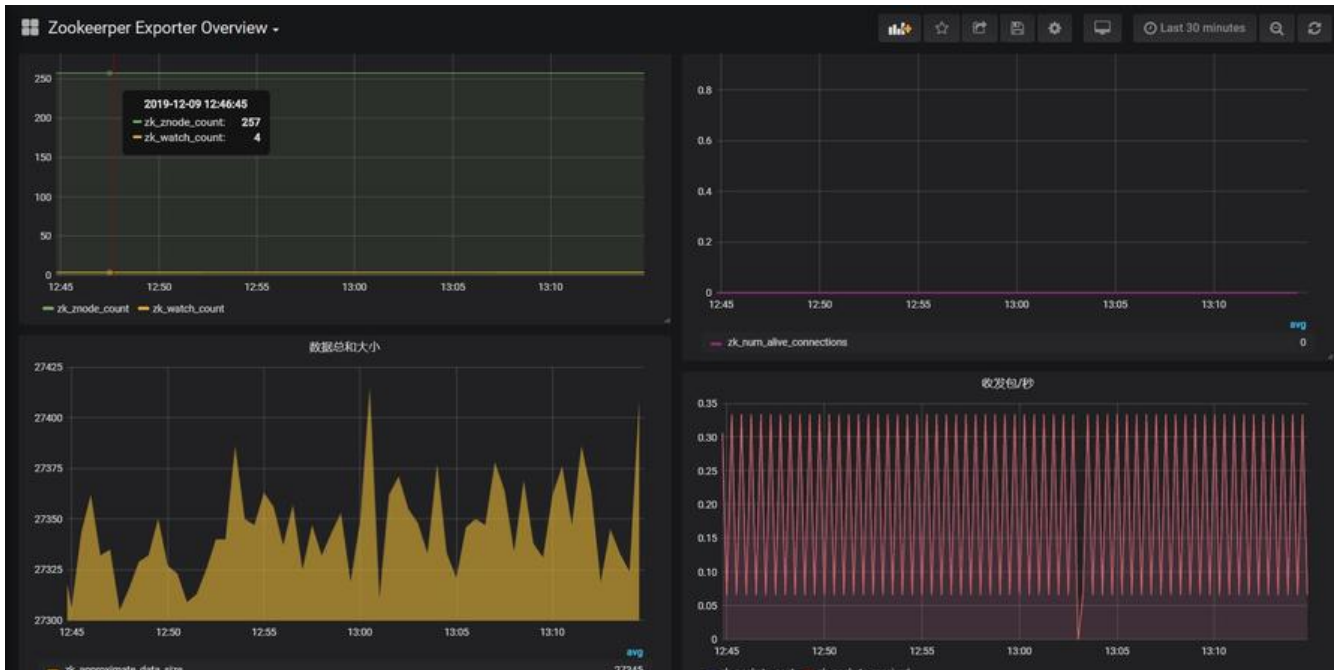
③查看是否正常

```
curl localhost:9141/metrics
# HELP go_gc_duration_seconds A summary of the GC invocation durations.
# TYPE go_gc_duration_seconds summary
go_gc_duration_seconds{quantile="0"} 8.3976e-05
go_gc_duration_seconds{quantile="0.25"} 0.00013299
go_gc_duration_seconds{quantile="0.5"} 0.000187604
go_gc_duration_seconds{quantile="0.75"} 0.000313127
go_gc_duration_seconds{quantile="1"} 0.043468175
go_gc_duration_seconds_sum 0.191737449
go_gc_duration_seconds_count 222
# HELP go_goroutines Number of goroutines that currently exist.
# TYPE go_goroutines gauge
go_goroutines 13
# HELP go_memstats_alloc_bytes Number of bytes allocated and still in use.
# TYPE go_memstats_alloc_bytes gauge
go_memstats_alloc_bytes 2.878024e+06
# HELP go_memstats_alloc_bytes_total Total number of bytes allocated, even if freed.
# TYPE go_memstats_alloc_bytes_total counter
go_memstats_alloc_bytes_total 5.82449592e+08
# HELP go_memstats_buck_hash_sys_bytes Number of bytes used by the profiling bucket hash table.
# TYPE go_memstats_buck_hash_sys_bytes gauge
go_memstats_buck_hash_sys_bytes 1.464262e+06
# HELP go_memstats_frees_total Total number of frees.
# TYPE go_memstats_frees_total counter
go_memstats_frees_total 1.210059e+06
# HELP go_memstats_gc_sys_bytes Number of bytes used for garbage collection system metadata.
# TYPE go_memstats_gc_sys_bytes gauge
```

④将export加入到prometheus服务端。

```
- job_name: zookeeper
  static_configs:
    - targets: [ "192.168.100.100:9141", "192.168.100.101:9141", "192.168.100.102:9141", "192.168.100.103:9141", "192.168.100.104:9141", "192.168.100.105:9141", "192.168.100.106:9141" ]
```

⑤登陆grafana, 导入模板; 搜索Zookeeper Exporer Overview 或者 拷贝pid 9236



zookeeper alter监控参考如下:

groups:

- name: zookeeperStatsAlert

rules:

- alert: 堆积请求数过大

expr: avg(zk\_outstanding\_requests) by (instance) > 10 for: 1m

labels: severity: critical

annotations:

summary: "Instance {{ \$labels.instance }}"

description: "积请求数过大"

- alert: 阻塞中的 sync 过多

expr: avg(zk\_pending\_syncs) by (instance) > 10

for: 1m

labels:

severity: critical

annotations:

summary: "Instance {{ \$labels.instance }}"

description: "塞中的 sync 过多"

- alert: 平均响应延迟过高

expr: avg(zk\_avg\_latency) by (instance) > 10

for: 1m

labels:

severity: critical

annotations:

summary: "Instance {{ \$labels.instance }}"

description: '平均响应延迟过高'

- alert: 打开文件描述符数大于系统设定的大小

expr: zk\_open\_file\_descriptor\_count > zk\_max\_file\_descriptor\_count \* 0.85

for: 1m

labels:

severity: critical

annotations:

summary: "Instance {{ \$labels.instance }}"

description: '打开文件描述符数大于系统设定的大小'

```
- alert: zookeeper服务器宕机
  expr: zk_up == 0
  for: 1m
  labels:
    severity: critical
  annotations:
    summary: "Instance {{ $labels.instance }}"
    description: 'zookeeper服务器宕机'
- alert: zk主节点丢失
  expr: absent(zk_server_state{state="leader"}) != 1
  for: 1m
  labels:
    severity: critical
  annotations:
    summary: "Instance {{ $labels.instance }}"
    description: 'zk主节点丢失'
```

需要指定阈值的指标

zk\_outstanding\_requests 堆积请求数

zk\_pending\_syncs 阻塞中的 sync 操作

zk\_avg\_latency 平均 响应延迟

zk\_open\_file\_descriptor\_count 打开 文件描述符 数

zk\_max\_file\_descriptor\_count 最大 文件描述符 数

zk\_up 1

zk\_server\_state 主从状态

zk\_num\_alive\_connections 活跃连接数