

一、zabbix 自动发现并监控redis多实例

1.1 编写脚本

1.1.1 ipanel_redis_low_discovery.sh

用于发现redis多实例

```

[root@redis02 homed]# cat /usr/local/zabbix/ipanel_redis_low_discovery.sh
#!/bin/bash
# line:          V1.0
# mail:          zhenggc@ipanel.cn
# data:          2018-08-06
# script_name:   ipanel_redis_low_discovery.sh
# Fucation:      redis Low-Level discovery

redis() {
    port=$(sudo netstat -tln | awk -F "[:]+" '/redis-serv*/ && /0.0.0.0/ {print $5}')
    printf '{\n'
    printf '\t"data":{\n'
        for key in ${!port[@]}
        do
            if [[ "${#port[@]}" -gt 1 && "${key}" -ne "$((${#port[@]}-1))" ]];then
                socket=`ps aux|grep ${port[${key}]}|grep -v grep|awk -F '=' '{print $10}'|cut -d ' ' -f`
                printf '\t {\n'
                printf "\t\t\t\t\"#REDISPORT\":\":\"${port[${key}]}\":\":\n"
            else [[ "${key}" -eq "$((${#port[@]}-1))" ]]
                socket=`ps aux|grep ${port[${key}]}|grep -v grep|awk -F '=' '{print $10}'|cut -d ' ' -f`
                printf '\t {\n'
                printf "\t\t\t\t\"#REDISPORT\":\":\"${port[${key}]}\":\":\n"
            fi
        done
        printf '\t ]\n'
        printf '}\n'
}

sentinel() {
    port=$(sudo netstat -tln | awk -F "[:]+" '/redis-sent*/ && /0.0.0.0/ {print $5}')
    printf '{\n'
    printf '\t"data":{\n'
        for key in ${!port[@]}
        do
            if [[ "${#port[@]}" -gt 1 && "${key}" -ne "$((${#port[@]}-1))" ]];then
                socket=`ps aux|grep ${port[${key}]}|grep -v grep|awk -F '=' '{print $10}'|cut -d ' ' -f`
                printf '\t {\n'
                printf "\t\t\t\t\"#REDISPORT\":\":\"${port[${key}]}\":\":\n"
            else [[ "${key}" -eq "$((${#port[@]}-1))" ]]
                socket=`ps aux|grep ${port[${key}]}|grep -v grep|awk -F '=' '{print $10}'|cut -d ' ' -f`
                printf '\t {\n'
                printf "\t\t\t\t\"#REDISPORT\":\":\"${port[${key}]}\":\":\n"
            fi
        done
        printf '\t ]\n'
        printf '}\n'
}

$1

[root@redis02 homed]#

```

1.1.2 ipanel_check_redis.sh

用于获取redis值

```

[root@redis02 ~]# vim /usr/local/zabbix/ipanel_redis_check_port.sh
#!/bin/sh
# line:          V1.0
# mail:          zhenggc@ipanel.cn
# data:          2018-08-06
# script_name:   ipanel_redis_check_port.sh

REDIS_CLI=/homed/redis/bin/redis-cli.exe

while getopts "p:k:P:" opt
do
    case $opt in
        p ) redis_port=$OPTARG;;
        k ) redis_info_key=$OPTARG;;
        P ) redis_passwd=$OPTARG;;
        ? )
            echo '参数错误!'
            exit 1;;
    esac
done

#判断redis端口和info键值是否存在
if [ ! "${redis_port}" ] || [ ! "${redis_info_key}" ];then
    echo "参数不存在"
    exit 1
fi

function chk_result_status()
{
    #判断result值是否存在
    if [ ! "$result" ] ;then
        echo 0
    else
        echo $result
    fi
}

##判断是否使用密码远程登陆
if [ "${redis_passwd}" ];then
    REDIS_COMM="${REDIS_CLI} -a ${redis_passwd} -p ${redis_port} info"
else
    REDIS_COMM="${REDIS_CLI} -p ${redis_port} info"
fi

function get_values()
{
    if [ "master_link_status" == "${redis_info_key}" ];then
        result=`$REDIS_COMM|/bin/grep -w "master_link_status"|awk -F':' '{print $2}'|/bin/grep -c up`
        chk_result_status
    elif [ "role" == "${redis_info_key}" ];then
        result=`$REDIS_COMM|/bin/grep -w "role"|awk -F':' '{print $2}'|/bin/grep -c master`
        chk_result_status
    elif [ "rdb_last_bgsave_status" == "${redis_info_key}" ];then
        result=`$REDIS_COMM|/bin/grep -w "rdb_last_bgsave_status" | awk -F':' '{print $2}' | /bin/grep -c ok`
        chk_result_status
    elif [ "aof_last_bgrewrite_status" == "${redis_info_key}" ];then
        result=`$REDIS_COMM|/bin/grep -w "aof_last_bgrewrite_status" | awk -F':' '{print $2}' | /bin/grep -c ok`
        chk_result_status
    elif [ `echo "${redis_info_key}" |egrep -cw`

```

```
'dict_keys|dict_expires|intdict_keysi|intdict_expires|sentinel_status|sentinel_slaves|sentinel_nums'`
== "1" ];then
    #cn=`echo "${redis_info_key}" |awk -F " " '{print $2}'`
    cn=`echo "${redis_info_key}"`
    case $cn in
        dict_keys)
            result=`$REDIS_COMM| /bin/grep -w "db0"|/bin/grep -w "dict"|/bin/grep -w "keys" | awk -F'=',`
            '{print $3}'`
            chk_result_status
            ;;
        dict_expires)
            result=`$REDIS_COMM| /bin/grep -w "db0"|/bin/grep -w "dict"|/bin/grep -w "expires" | awk
            -F'=',' '{print $5}'`
            chk_result_status
            ;;
        intdict_keys)
            result=`$REDIS_COMM|/bin/grep -w "db0"|/bin/grep -w "intdict" |/bin/grep -w "keys" | awk
            -F'=',' '{print $3}'`
            chk_result_status
            ;;
        intdict_expires)
            result=`$REDIS_COMM|/bin/grep -w "db0"|/bin/grep -w "intdict" |/bin/grep -w "expites" |
            awk -F'=',' '{print $5}'`
            chk_result_status
            ;;
        sentinel_status)
            result=`$REDIS_COMM|/bin/grep -w "master0"|awk -F'=',' '{print $4}'| /bin/grep -c ok`
            chk_result_status
            ;;
        sentinel_slaves)
            result=`$REDIS_COMM|/bin/grep -w "master0"|awk -F'=',' '{print $8}'`
            chk_result_status
            ;;
        sentinel_nums)
            result=`$REDIS_COMM|/bin/grep -w "master0"|awk -F'=',' '{print $10}'`
            chk_result_status
            ;;
    esac
else
    result=`$REDIS_COMM|/bin/grep -w "${redis_info_key}"|cut -d: -f2`
    chk_result_status
fi
}

get_values
```

二、授权zabbix使用netstat

允许 zabbix 用户无密码运行 netstat 及 Disable requiretty

```
[root@redis02 homed]# echo "zabbix ALL=(root) NOPASSWD:/bin/netstat">>/etc/sudoers
[root@redis02 homed]# sed -i 's/^Defaults.*requiretty/#Defaults requiretty/' /etc/sudoers
```

三、配置zabbix UserParameter

修改/etc/zabbix/zabbix_agentd.conf

```
[root@redis02 homed]# grep -Ev "^$|^#" /etc/zabbix/zabbix_agentd.conf
```

```
PidFile=/var/run/zabbix/zabbix_agentd.pid
LogFile=/var/log/zabbix/zabbix_agentd.log
LogFileSize=0
Server=192.168.49.245
ServerActive=127.0.0.1
Hostname=Zabbix server
Include=/etc/zabbix/zabbix_agentd.d/*.conf
```

#添加以下内容

```
UnsafeUserParameters=1
UserParameter=redis_discovery[*],/bin/bash /usr/local/zabbix/ipanel_redis_low_discovery.sh $1
UserParameter=redis_items[*],/bin/bash /usr/local/zabbix/ipanel_redis_check_port.sh -p $1 -k $2
UserParameter=sentinel_items[*],/bin/bash /usr/local/zabbix/ipanel_redis_check_port.sh -p $1 -k $2
```

四、重启agent并尝试获取值

重启zabbix-agent

```
[root@redis02 homed]# systemctl restart zabbix-agent.service
[root@redis02 homed]# systemctl status zabbix-agent.service
```

zabbix server主机上用zabbix_get 获取值

```
[root@node01 /]# zabbix_get -s 192.168.49.252 -k redis_discovery[redis]
{
  "data":[
    {
      "#{REDISPORT}":"17035"},
    {
      "#{REDISPORT}":"6379"},
    {
      "#{REDISPORT}":"13135"},
    {
      "#{REDISPORT}":"7379"},
    {
      "#{REDISPORT}":"11835"},
    {
      "#{REDISPORT}":"12635"},
    {
      "#{REDISPORT}":"13635"}
  ]
}
```

```
[root@node01 /]# zabbix_get -s 192.168.49.252 -k redis_discovery[sentinel]
{
  "data":[
    {
      "#{REDISPORT}":"17034"},
    {
      "#{REDISPORT}":"13134"},
    {
      "#{REDISPORT}":"7378"},
    {
      "#{REDISPORT}":"11834"},
    {
      "#{REDISPORT}":"12634"},
    {
      "#{REDISPORT}":"13634"}
  ]
}
```

```
[root@node01 ~]# zabbix_get -s 192.168.49.252 -p 10050 -k redis_items[7379,role]
slave
```

```
[root@node01 ~]# zabbix_get -s 192.168.49.252 -p 10050 -k redis_items[7379,uptime_in_seconds]
173728
```

```
[root@node01 ~]# zabbix_get -s 192.168.49.252 -p 10050 -k sentinel_items[7378,sentinel_status]
0
```

```
[root@node01 ~]# zabbix_get -s 192.168.49.252 -p 10050 -k sentinel_items[7378,sentinel_nums]
1
```

五、导入模板

导入zbx_export_templates，并连接监控主机

图形展示

