第1章 项目需求

- 1.有2台web服务器,上面运行了nginx服务
- 2.这两台的nginx服务运行的端口不一样,具体是啥不清楚
- 3.后期可能会继续增加不同端口的服务
- 4.现在需要监控对这两台nginx运行的端口并配置触发器

第2章 web服务端口监控

1.安装nginx

```
cat > /etc/yum.repos.d/nginx.repo << 'EOF'</pre>
   [nginx-stable]
 3 name=nginx stable repo
 4
    baseurl=http://nginx.org/packages/centos/$releasever/$basearch/
    gpgcheck=1
    enabled=1
 6
7
    gpgkey=https://nginx.org/keys/nginx_signing.key
8
9
    [nginx-mainline]
    name=nginx mainline repo
10
    baseurl=http://nginx.org/packages/mainline/centos/$releasever/$basearch/
11
12
    gpgcheck=1
    enabled=0
13
14
    gpgkey=https://nginx.org/keys/nginx_signing.key
15
    yum install nginx -y
```

2.准备 web环境

web-7的步骤

```
1 rm -rf /etc/nginx/conf.d/*
   cat > /etc/nginx/conf.d/web.conf << 'EOF'</pre>
 2
 3
   server {
 4
        listen 8070;
        server_name localhost;
 5
 6
   }
 7
8
   server {
9
        listen 8080;
10
        server_name localhost;
11
    }
12
13
   server {
14
        listen 8090;
        server_name localhost;
15
    }
16
17
    EOF
18
    systemctl restart nginx
```

```
chmod +s /usr/bin/netstat
netstat -lntup|grep nginx
```

web-8的步骤:

```
1 rm -rf /etc/nginx/conf.d/*
    cat > /etc/nginx/conf.d/web.conf << 'EOF'</pre>
   server {
 4
        listen 7000;
        server_name localhost;
 6
 7
8
   server {
        listen 8000;
9
10
        server_name localhost;
11
12
13
  server {
14
        listen 9000;
        server_name localhost;
15
16
17
   EOF
18 | systemctl restart nginx
19 chmod +s /usr/bin/netstat
20 | netstat -lntup|grep nginx
```

3.编写zabbix监控项配置文件

注意,两台服务器都要操作

```
cat /etc/zabbix/zabbix_agentd.d/nginx_status.conf << 'EOF'
UserParameter=nginx.status[*],netstat -antp|grep nginx|awk -F"[: ]+" '{print $5}'|grep -w "$1"|wc -l
EOF
systemctl restart zabbix-agent.service</pre>
```

4.测试是否可以正常访问

注意,在m-61上测试

```
1 | zabbix_get -s 10.0.0.7 -k nginx.status[8080]
2 | zabbix_get -s 10.0.0.8 -k nginx.status[7000]
```

第3章 配置低级自动发现

1.创建自定义LLD规则

编写脚本

```
1 cat > /etc/zabbix/zabbix_agentd.d/nginx_discovery.sh << 'EOF'</pre>
 2 #!/bin/bash
 3
   num=$(netstat -antp|grep nginx|wc -1)
 4
   echo '{"data": ['
    netstat -antp|grep nginx|awk -F"[: ]+" '{print $5}'|sed -rn 's@(.*)@{"
    {#NGINXPORT}": "\1"},@g'p|sed "${num}s#,##g"
 6
    echo ']}'
 7
    EOF
8
9
    chmod +x /etc/zabbix/zabbix_agentd.d/nginx_discovery.sh
10
   bash /etc/zabbix/zabbix_agentd.d/nginx_discovery.sh
```

编写监控配置

```
cat > /etc/zabbix/zabbix_agentd.d/nginx_discovery.conf << 'EOF'
UserParameter=nginx.discovery,/bin/bash
/etc/zabbix/zabbix_agentd.d/nginx_discovery.sh

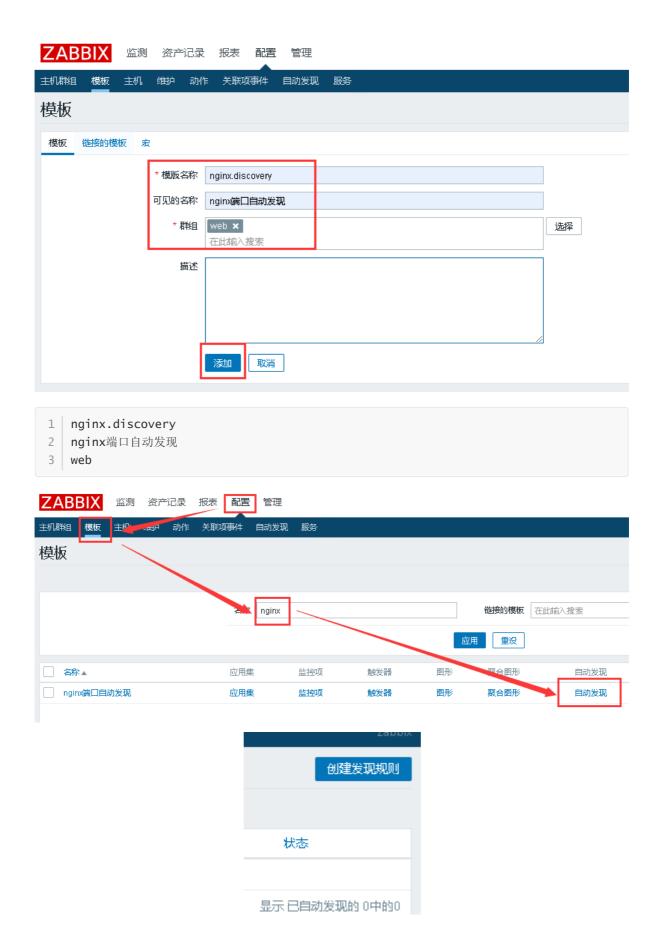
EOF
systemctl restart zabbix-agent.service</pre>
```

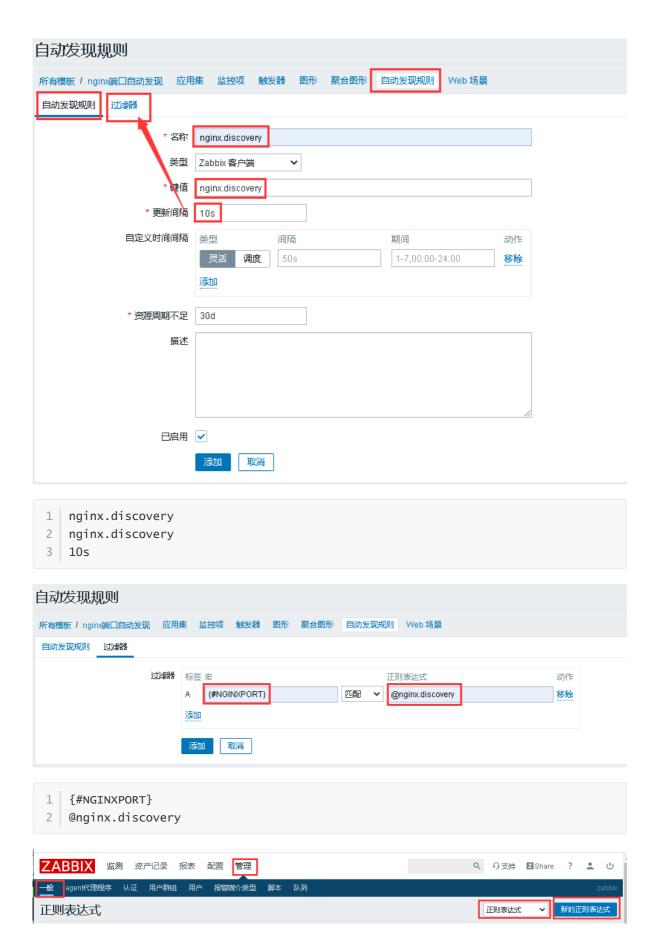
测试监控项是否正常

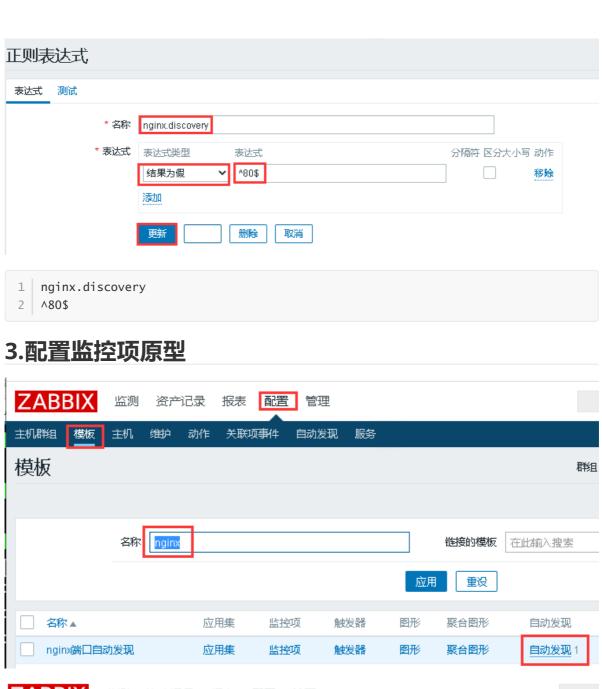
```
[root@m-61 ~]# zabbix_get -s 10.0.0.7 -k nginx.discovery
2
   {"data": [
   {"{#NGINXPORT}": "8070"},
   {"{#NGINXPORT}": "8080"},
5 {"{#NGINXPORT}": "8090"}
6
   ]}
7
8
  [root@m-61 ~]# zabbix_get -s 10.0.0.8 -k nginx.discovery
9
   {"data": [
10 {"{#NGINXPORT}": "9000"},
11
   {"{#NGINXPORT}": "7000"},
   {"{#NGINXPORT}": "8000"}
12
13 ]}
```

2.创建自动发现规则





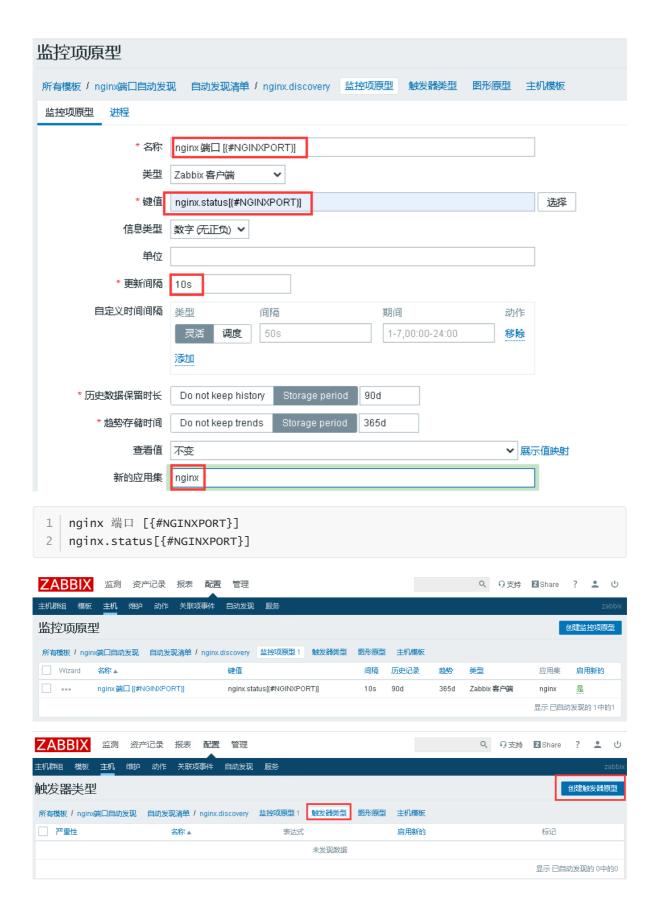






未发现数据

显示 已自动发现的 0中的0





- 1 nginx {#NGINXPORT} 端口失败
- 2 {nginx.discovery:nginx.status[{#NGINXPORT}].last()}=0

4.主机关联模板



