

## 如何利用Zabbix自动发现(Discover)功能快速添加监控主机

### 如何利用Zabbix自动发现(Discover)功能快速添加监控主机

#### 一、网络发现

#### 二、自动注册

#### 三、应用环境

### 一、网络发现

网络发现是zabbix最具特色的功能之一，它能够根据用户事先定义的规则自动添加监控主机或服务，

Zabbix的网络发现功能基于：IP 范围、网络协议(FTP、SSH、WEB、POP3、IMAP、TCP、Telnet、SNMP)、

Zabbix Agent 等方式进行检查发现。需要大批量添加主机时，是非常高效。

网络发现通常包含两个阶段：discovery和actions

Discovery中的事件：

Service Up

Service Down

Host Up

Host Down

Service Discovered

Service Lost

Host Discovered

Host Lost

Action,网络发现中的事件可以触发action,从而自动执行指定的操作，如：

Sending notifications

Adding/removing hosts

Enabling/disabling hosts

Adding hosts to group

Removing hosts from a group

Linking hosts to/unlinking from a template

Executing remote scripts

## 二、自动注册

Zabbix支持active agent的自动注册（auto-resisitation）功能，通常用于此前故障的agent重新上线的场景，

也可基于active agent的自动注册机制添加被动检测，这会通过active agent注册时提供的“ ListenIP” 和“ ListenPort”

进行，Server端在收到自动注册请求后以接收到的IP和Port为接口属性。

**两者区别：**网络发现是zabbix server主动将在线的主机添加到host列表中去，而自动注册是 Active agent主动联系

zabbix server，最后由zabbix server将这些agent加到host里。部署大型主机时用自动注册可以减少Server去自动发现，减少Server压力。

## 三、应用环境

应用目的：自动发现SNMP网络设备，并应用对应的模板，添加到指定组

**网络设备SNMP开启：**

**Cisco:**

```
1 snmp-server community public ro
```

**H3C/Huawei:**

```
1 snmp-agent community read public
2 snmp-agent sys-info version all
3 snmp-agent target-host trap address udp-domain 172.24.0.177 params securi
tyname maorui v2
```

**环境：Centos7+Zabbix4.0**

**一键安装zabbix脚本**

[https://raw.githubusercontent.com/mrchenbr/Work/master/install\\_zabbix.sh](https://raw.githubusercontent.com/mrchenbr/Work/master/install_zabbix.sh)

### 1、创建发现规则

**ZABBIX** Monitoring Inventory Reports **1 Configuration** Administration **2**

Host groups Templates Hosts Maintenance Actions Event correlation **Discovery** Services

### Discovery rules 3 [Create discovery rule](#)

Filter

Name  Status Any Enabled Disabled

[Apply](#) [Reset](#)

<input type="checkbox"/> Name ▲	IP range	Interval	Checks	Status
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### Discovery rules

\* Name

Discovery by proxy No proxy ▼

\* IP range

\* Update interval

\* Checks

SNMPv2 agent ".1.3.6.1.2.1.1.5.0"	<a href="#">Edit</a> <a href="#">Remove</a>
<a href="#">New</a>	

Check type SNMPv2 agent ▼

\* Port range

\* SNMP community

\* SNMP OID  OID:获取设备名称,严格遵循mib库格式

[Add](#) [Cancel](#)

Device uniqueness criteria

☒ IP address

☐ SNMPv2 agent ".1.3.6.1.2.1.1.5.0"

Enabled ☒

[Add](#) [Cancel](#)

2、对设备执行的动作：主机自动加入主机组并关联模板，当然也可以执行相反的动作，主机离线时，自动从组中删除。

**ZABBIX** Monitoring Inventory Reports **1 Configuration** Administration

Host groups Templates Hosts Maintenance **2 Actions** Event correlation Discovery Services

Actions Event source: Discovery **3 Create action**

Name  Status **Any** Enabled Disabled

**Apply** **Reset**

<input type="checkbox"/> Name ▲	Conditions	Operations	Status
<input type="checkbox"/> Auto discovery. Linux servers.	Received value contains <i>Linux</i> Discovery status equals <i>Up</i> Service type equals <i>Zabbix agent</i>	<b>Add to host groups:</b> Linux servers <b>Link to templates:</b> Template OS Linux	<b>Disabled</b>

Displaying 1 of 1 found

1 selected **Enable** **Disable** **Delete**

**Actions**

**Action** Operations

\* Name

Conditions

Label	Name	Action
A	Host IP equals 192.168.0.1-127,192.168.2.1	<a href="#">Remove</a>

New condition

[Add](#)

Enabled ☒

\* At least one operation must exist.

**Add** **Cancel**

### Actions

[Action](#) [Operations](#)

Default subject

Discovery: {DISCOVERY.DEVICE.STATUS} {DISCOVERY.DEVICE.IPADDRESS}

Default message

Discovery rule: {DISCOVERY.RULE.NAME}  
Device IP: {DISCOVERY.DEVICE.IPADDRESS}  
Device DNS: {DISCOVERY.DEVICE.DNS}  
Device status: {DISCOVERY.DEVICE.STATUS}  
Device uptime: {DISCOVERY.DEVICE.uptime}

Operations

Details

Add host

Add to host groups: Templates/Network devices

Link to templates: Cisco Drivers Discovery

Action

[Edit](#) [Remove](#)

[Edit](#) [Remove](#)

[Edit](#) [Remove](#)

Operation details

Operation type

Send message 1

\* At least one user or user group must be selected.

Send to User groups

User group

Action

[Add](#)

Send to Users

User

Action

[Add](#)

Send only to

- All -

2 Default message ☒

[Add](#) [Cancel](#)

\* At least one operation must exist.

Add

Cancel

以上就创建网络自动发现规则,检查数据

<input type="checkbox"/>	Name ▲	Applications	Items	Triggers	Graphs	Discovery	Web	Interface	Templates	Status	Availability
<input type="checkbox"/>	172.24.1.161	Applications 2	Items 84	Triggers 28	Graphs 28	Discovery 1	Web 172.24.1.161		Cisco Drivers Discovery	Enabled	ZBX SNMP NM

**ZABBIX** Monitoring Inventory Reports Configuration Administration  [Support](#) [Share](#) [?](#) [User](#) [Power](#)

Dashboard Problems Overview Web Latest data Graphs Screens Maps **Discovery** Services

Status of discovery Discovery rule all

Discovered device ▼

Monitored host

Uptime/Downtime

SNMPv2 agent: 1.3.6.1.2.1.1.5.0

Discovery SNMP Drivers (24 devices)

172.24.1.161

F-B02-C2918-24

00:02:08

2m 8s

172.24.1.161

B01-C2960-48

00:02:08

2m 8s

172.24.1.161

F-B02-C2918-24

00:02:08

2m 8s

172.24.1.161

F-B01-C2918-48

00:02:08

2m 8s

172.24.1.161

A03-C2960-48

00:02:24

2m 24s

172.24.1.161

A02-C2960-48

00:02:24

2m 24s

