



ZABBIX 2020  
Conference  
CHINA

演讲主题

# HTTP Agent: 原生方式调用API

演讲嘉宾

何星 宏时数据

# 01

## 调用天气接口

Get请求获取指定城市的当前温度

# 获取当前天气信息

Item Preprocessing

\* Name

Type

\* Key

\* URL

Query fields

Name	Value	
key	SRNEmFz6u9v8Cu4f7	<input type="button" value="Remove"/>
location	深圳	<input type="button" value="Remove"/>
language	zh-Hans	<input type="button" value="Remove"/>
unit	c	<input type="button" value="Remove"/>

Request type

Timeout

Request body type

Request body

Headers

Name	Value	
name	value	<input type="button" value="Remove"/>

Required status codes

Follow redirects

Retrieve mode

Convert to JSON

HTTP proxy

HTTP authentication

SSL verify peer

SSL verify host

SSL certificate file

SSL key file

SSL key password

\* Host interface

Type of information

\* Update interval

Http\_monitor: Get Shenzhen weather info

View as

Timestamp	Value
2020-09-18 14:07:08	{"results":[{"location":{"id":"WS10730EM8EV","name":"深圳","country":"CN","path":"深圳,深圳,广东,中国","timezone":"Asia/Shanghai","timezone_offset":"+08:00"},"now":{"text":"多云","code":"4","temperature":"30"},"last_update":"2020-09-18T13:30:08+08:00"}]}

# 获取当前温度

The image shows the Zabbix Preprocessing configuration interface. The main configuration window has the following settings:

- Name: Get Shenzhen weather info
- Type: Dependent item
- Key: weather.api.temperature
- Master item: Http\_monitor: Get Shenzhen weather info
- Type of information: Numeric (float)
- Units: °C
- History storage period: Do not keep history
- Trend storage period: Do not keep trends
- Show value: As is
- New application: (empty)
- Applications: -None- Weather

An inset window shows the Preprocessing steps configuration:

Preprocessing steps	Name	Parameters	Custom on fail	Actions
1:	JSONPath	\$.results[0].now.temperature	<input type="checkbox"/>	<a href="#">Test</a> <a href="#">Remove</a>

Below the steps table are buttons: Update, Clone, Execute now, Test, Clear history and trends, Delete, Cancel.

A 'Test item' dialog box is open, showing the test results:

Value: [{"results":[{"location":{"id":"WS10730EM8EV","name":"深圳","country":"CN"},...}]}

Time: now

Previous value: (empty)

Prev. time: (empty)

End of line sequence: LF CRLF

Preprocessing steps: Name 1: JSONPath

Result: 30

Buttons: Test, Cancel

# 02

## 获取加密的Apache页面信息

获取配置了认证的Apache页面信息

# 配置Apache认证

1. 修改httpd.conf, 对要做认证的目录进行设置

```
<Directory "/var/www/html">  
    Options Indexes FollowSymLinks  
    AllowOverride AuthConfig  
    Require all granted  
</Directory>
```

2. 创建用户

```
htpasswd -bc /var/www/html/members.txt damao 123456
```

3. 到目录/usr/local/www下增加.htaccess文件

```
AuthName "passwd, sir"  
AuthType basic  
AuthUserFile /var/www/html/members.txt  
require valid-user
```

4. 重启apache生效

# 获取Apache页面信息

Item Preprocessing

\* Name Get Shenzhen weather detail

Type HTTP agent

\* Key weather.shenzhen

\* URL `http://192.168.25.210:8080/weather.html`

Query fields

Name	Value
name	value

Add

Request type GET

Timeout 10s

Request body type Raw data JSON data XML data

Request body

Headers

Name	Value
------	-------

Required status codes 200

Follow redirects

Retrieve mode Body Headers Body and headers

Convert to JSON

HTTP proxy [protocol://[user[:password]@]proxy.example.com[:port]]

HTTP authentication Basic

User name damao

Password 123456

Http\_monitor: Get Shenzhen weather detail

Timestamp	Value
2020-09-18 16:16:22	city: "深圳" cityEn: "shenzhen" cityid: "101280601" country: "中国" countryEn: "China" jinghuaqi: "关闭净化器" kaichuang: "适宜开窗" kouzhao: "不用佩戴口罩" air: "27" air_level: "优" air_pm25: "14" air_tips: "空气很好,可以外出活动,呼吸新鲜空气,拥抱大自然!" alarm_content: "深圳市气象台于09月18日00时17分发布深圳市暴雨黄色预警信号,请注意防御。 alarm_level: "黄色" alarm_type: "暴雨" tem: "29" tem1: "29" tem2: "26" update_time: "14:52" visibility: "暂缺" wea: "阴" wea_img: "yin" week: "星期五" win: "东北风" win_meter: "小于12km/h" win_speed: "2级"

# 03

## 调用Zabbix API

调用Zabbix API获取主机相应信息



# 获取认证

Item Preprocessing

### Http\_monitor: Get session of zabbix api

\* Name Get session of zabbix api

Type HTTP agent

Timestamp	Value
2020-09-19 10:02:35	{"jsonrpc": "2.0", "result": "2eae3ead660ce7381146ef0094315e2", "id": 1}

\* Key zbxapi.auth

\* URL `http://192.168.25.210/zabbix/api_jsonrpc.php` Parse

Query fields

Name	Value
name	value

Add Remove

Request type POST

Timeout 10s

Request body type Raw data JSON data XML data

Request body

```
{
  "jsonrpc": "2.0",
  "method": "user.login",
  "params": {
    "user": "Admin",
    "password": "zabbix"
  },
  "id": 1,
  "auth": null
}
```

Headers

Name	Value
Content-Type	application/json-rpc

Add

```
{
  "jsonrpc": "2.0",
  "method": "user.login",
  "params": {
    "user": "Admin",
    "password": "zabbix"
  },
  "id": 1,
  "auth": null
}
```

# 获取主机信息

Item Preprocessing

\* Name

Type

\* Key

\* URL

Query fields

Name	Value
name	value

Request type

Timeout

Request body type

Request body

```
{
  "jsonrpc": "2.0",
  "method": "host.get",
  "params": {
    "output": ["hostid"],
    "selectGroups": "extend",
    "filter": {
      "host": [
        "Zabbix server"
      ]
    }
  },
  "auth": "2eaee3ead660ce7381146ef0094315e2",
  "id": 1
}
```

Headers

Name	Value
Content-Type	application/json-rpc

```
{
  "jsonrpc": "2.0",
  "method": "host.get",
  "params": {
    "output": ["hostid"],
    "selectGroups": "extend",
    "filter": {
      "host": [
        "Zabbix server"
      ]
    }
  },
  "auth": "2eaee3ead660ce7381146ef0094315e2",
  "id": 1
}
```

Timestamp Value

2020-09-19 10:10:45 {"jsonrpc": "2.0", "result": [{"hostid": "10084", "groups": [{"groupid": "4", "name": "Zabbix servers", "internal": "0", "flags": "0"}]}, {"id": 1}

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Zabbix 中国致力于为国内用户提供培训、咨询、以及其他的专业技术支持。也为国内的用户搭建交流学习的平台。



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THANK YOU 😊

Zabbix还有很多功能等待大家发掘。