## jetScan Api调用说明

可以使用远程HTTP请求来调用API。为此，需要向 api\_jsonrpc.php 位于前端目录中的文件发送HTTP POST请求，它允许你通过JSON RPC协议来创建、更新和获取Zabbix对象并且做任何你喜欢的操作。以下列子基于curl调用。

## 登陆系统，获取授权

在访问Zabbix中的任何数据之前，你需要登录并获取身份验证令牌。这可以使用该 user.login 方法完成。让我们假设你想要以标准Zabbix Admin用户身份登录。

### Request

|  |
| --- |
| curl -i -X POST -H 'Content-Type:application/json' -d'{  "jsonrpc": "2.0",  "method": "user.login",  "params": {  "user": "admin",  "password": "888888"  },  "auth": null,  "id": 0  }' http://192.168.12.232/api\_jsonrpc.php |

jsonrpc - API使用的JSON-RPC协议的版本; Zabbix API实现JSON-RPC版本2.0;

method - 调用的API方法;

params - 将被传递给API方法的参数;

id - 请求的任意标识符;

auth -用户认证令牌; 因为我们还没有一个，它的设置null。

### Respone

|  |
| --- |
| {  "jsonrpc": "2.0",  "result": "e22103c89888c4a37dc7e288ccf02a76",  "id": 0  } |

"e22103c89888c4a37dc7e288ccf02a76"是我们需要的访问令牌

jsonrpc - JSON-RPC协议的版本;

result - 方法返回的数据;

id - 相应请求的标识符。

## 获取主机信息

### Request

|  |
| --- |
| curl -i -X POST -H 'Content-Type:application/json' -d'{  "jsonrpc": "2.0",  "method": "host.get",  "params": {  "output": [  "hostid",  "name"  ],  "selectInterfaces": [  "interfaceid",  "ip"  ]  },  "id": 2,  "auth": "e22103c89888c4a37dc7e288ccf02a76"  }' http://192.168.12.232/api\_jsonrpc.php |

### Respone

|  |
| --- |
| {  "jsonrpc": "2.0",  "result": [  {  "hostid": "10084",  "name": "JetScan server",  "interfaces": [  {  "interfaceid": "1",  "ip": "127.0.0.1"  }  ]  },  {  "hostid": "10254",  "name": "centos7",  "interfaces": [  {  "interfaceid": "2",  "ip": "192.168.12.6"  }  ]  },  {  "hostid": "10255",  "name": "centos6",  "interfaces": [  {  "interfaceid": "3",  "ip": "192.168.12.7"  }  ]  },  {  "hostid": "10256",  "name": "NeoKylin6",  "interfaces": [  {  "interfaceid": "4",  "ip": "192.168.12.6"  }  ]  },  {  "hostid": "10257",  "name": "windows server 2008",  "interfaces": [  {  "interfaceid": "5",  "ip": "192.168.10.128"  }  ]  },  {  "hostid": "10259",  "name": "JetScan client host",  "interfaces": [  {  "interfaceid": "6",  "ip": "192.168.12.232"  }  ]  },  {  "hostid": "10260",  "name": "windows server 2012",  "interfaces": [  {  "interfaceid": "7",  "ip": "192.168.12.6"  }  ]  },  {  "hostid": "10261",  "name": "switch",  "interfaces": [  {  "interfaceid": "8",  "ip": "127.0.0.1"  }  ]  },  {  "hostid": "10262",  "name": "NeoKylin6.5",  "interfaces": [  {  "interfaceid": "9",  "ip": "192.168.12.6"  }  ]  }  ],  "id": 0  } |

## 监控项的创建

我们使用从上一个请求host.get中获得的数据在 “centos7” 上创建一个新 监控项

### Request

|  |
| --- |
| curl -i -X POST -H 'Content-Type:application/json' -d'{  "jsonrpc": "2.0",  "method": "item.create",  "params": {  "name": "Total sum of incoming and outgoing network card ",  "key\_": "net.if.total[ens33,bytes]",  "hostid": "10254",  "type": 0,  "value\_type": 3,  "interfaceid": "2",  "applications": [  "1060"  ],  "delay": "30s"  },  "auth": "e22103c89888c4a37dc7e288ccf02a76",  "id": 1  }' http://192.168.12.232/api\_jsonrpc.php |

Parameters 的配置项如下：

| **Property** | **Type** | **Description** |
| --- | --- | --- |
| itemid | string | *(readonly)* ID of the item. |
| **delay**  (required) | string | Update interval of the item. Accepts seconds or time unit with suffix and with or without one or more [custom intervals](https://www.zabbix.com/documentation/3.4/manual/config/items/item/custom_intervals) that consist of either flexible intervals and scheduling intervals as serialized strings. Also accepts user macros. Flexible intervals could be written as two macros separated by a forward slash. Intervals are separated by a semicolon.   Optional for Zabbix trapper or Dependent item. |
| **hostid**  (required) | string | ID of the host that the item belongs to.   For update operations this field is *readonly*. |
| **interfaceid**  (required) | string | ID of the item's host interface. Used only for host items.   Optional for Zabbix agent (active), Zabbix internal, Zabbix trapper, Dependent item, Zabbix aggregate, database monitor and calculated items. |
| **key\_**  (required) | string | Item key. |
| **name**  (required) | string | Name of the item. |
| **type**  (required) | integer | Type of the item.   Possible values:  0 - Zabbix agent;  1 - SNMPv1 agent;  2 - Zabbix trapper;  3 - simple check;  4 - SNMPv2 agent;  5 - Zabbix internal;  6 - SNMPv3 agent;  7 - Zabbix agent (active);  8 - Zabbix aggregate;  9 - web item;  10 - external check;  11 - database monitor;  12 - IPMI agent;  13 - SSH agent;  14 - TELNET agent;  15 - calculated;  16 - JMX agent;  17 - SNMP trap;  18 - Dependent item |
| **value\_type**  (required) | integer | Type of information of the item.   Possible values:  0 - numeric float;  1 - character;  2 - log;  3 - numeric unsigned;  4 - text. |
| authtype | integer | SSH authentication method. Used only by SSH agent items.   Possible values:  0 - *(default)* password;  1 - public key. |
| description | string | Description of the item. |
| error | string | *(readonly)* Error text if there are problems updating the item. |
| flags | integer | *(readonly)* Origin of the item.   Possible values:  0 - a plain item;  4 - a discovered item. |
| history | string | A time unit of how long the history data should be stored. Also accepts user macro.   Default: 90d. |
| inventory\_link | integer | ID of the host inventory field that is populated by the item.   Refer to the [host inventory page](https://www.zabbix.com/documentation/3.4/manual/api/reference/host/object#host_inventory) for a list of supported host inventory fields and their IDs.   Default: 0. |
| ipmi\_sensor | string | IPMI sensor. Used only by IPMI items. |
| lastclock | timestamp | *(readonly)* Time when the item was last updated.   This property will only return a value for the period configured in [ZBX\_HISTORY\_PERIOD](https://www.zabbix.com/documentation/3.4/manual/web_interface/definitions). |
| lastns | integer | *(readonly)* Nanoseconds when the item was last updated.   This property will only return a value for the period configured in [ZBX\_HISTORY\_PERIOD](https://www.zabbix.com/documentation/3.4/manual/web_interface/definitions). |
| lastvalue | string | *(readonly)* Last value of the item.   This property will only return a value for the period configured in [ZBX\_HISTORY\_PERIOD](https://www.zabbix.com/documentation/3.4/manual/web_interface/definitions). |
| logtimefmt | string | Format of the time in log entries. Used only by log items. |
| mtime | timestamp | Time when the monitored log file was last updated. Used only by log items. |
| params | string | Additional parameters depending on the type of the item:  - executed script for SSH and Telnet items;  - SQL query for database monitor items;  - formula for calculated items. |
| password | string | Password for authentication. Used by simple check, SSH, Telnet, database monitor and JMX items. |
| port | string | Port monitored by the item. Used only by SNMP items. |
| prevvalue | string | *(readonly)* Previous value of the item.   This property will only return a value for the period configured in [ZBX\_HISTORY\_PERIOD](https://www.zabbix.com/documentation/3.4/manual/web_interface/definitions). |
| privatekey | string | Name of the private key file. |
| publickey | string | Name of the public key file. |
| snmp\_community | string | SNMP community. Used only by SNMPv1 and SNMPv2 items. |
| snmp\_oid | string | SNMP OID. |
| snmpv3\_authpassphrase | string | SNMPv3 auth passphrase. Used only by SNMPv3 items. |
| snmpv3\_authprotocol | integer | SNMPv3 authentication protocol. Used only by SNMPv3 items.   Possible values:  0 - *(default)* MD5;  1 - SHA. |
| snmpv3\_contextname | string | SNMPv3 context name. Used only by SNMPv3 items. |
| snmpv3\_privpassphrase | string | SNMPv3 priv passphrase. Used only by SNMPv3 items. |
| snmpv3\_privprotocol | integer | SNMPv3 privacy protocol. Used only by SNMPv3 items.   Possible values:  0 - *(default)* DES;  1 - AES. |
| snmpv3\_securitylevel | integer | SNMPv3 security level. Used only by SNMPv3 items.   Possible values:  0 - noAuthNoPriv;  1 - authNoPriv;  2 - authPriv. |
| snmpv3\_securityname | string | SNMPv3 security name. Used only by SNMPv3 items. |
| state | integer | *(readonly)* State of the item.   Possible values:  0 - *(default)* normal;  1 - not supported. |
| status | integer | Status of the item.   Possible values:  0 - *(default)* enabled item;  1 - disabled item. |
| templateid | string | (readonly) ID of the parent template item. |
| trapper\_hosts | string | Allowed hosts. Used only by trapper items. |
| trends | string | A time unit of how long the trends data should be stored. Also accepts user macro.   Default: 365d. |
| units | string | Value units. |
| username | string | Username for authentication. Used by simple check, SSH, Telnet, database monitor and JMX items.   Required by SSH and Telnet items. |
| valuemapid | string | ID of the associated value map. |
| jmx\_endpoint | string | JMX agent custom connection string.   Default value:  service:jmx:rmi:///jndi/rmi://{HOST.CONN}:{HOST.PORT}/jmxrmi |
| master\_itemid | integer | Master item ID. Recursion up to 3 dependent items and maximum count of dependent items equal to 999 are allowed.   Required by Dependent items. |

### Respone

|  |
| --- |
| {  "jsonrpc": "2.0",  "result": {  "itemids": [  "28557"  ]  },  "id": 1  } |

Itemids ：监控项的ID

## 监控项的更新

### Request

|  |
| --- |
| curl -i -X POST -H 'Content-Type:application/json' -d'{  "jsonrpc": "2.0",  "method": "item.update",  "params": {  "itemid": "28557",  "status": 1  },  "auth": "e22103c89888c4a37dc7e288ccf02a76",  "id": 1  }' http://192.168.12.232/api\_jsonrpc.php |

Parameters

更创建的参数配置相同

### Resopne

|  |
| --- |
| {  "jsonrpc": "2.0",  "result": {  "itemids": [  "28557"  ]  },  "id": 1  } |

## 监控项的获取

### Request

|  |
| --- |
| curl -i -X POST -H 'Content-Type:application/json' -d'{  "jsonrpc": "2.0",  "method": "item.get",  "params": {  "output": "extend",  "hostids": "10254",  "search": {  "key\_": "net.if.total[ens33,bytes]"  },  "sortfield": "name"  },  "auth": "e22103c89888c4a37dc7e288ccf02a76",  "id": 1  }' http://192.168.12.232/api\_jsonrpc.php |

Parameters 参数配置表

| **Parameter** | **Type** | **Description** |
| --- | --- | --- |
| itemids | string/array | Return only items with the given IDs. |
| groupids | string/array | Return only items that belong to the hosts from the given groups. |
| templateids | string/array | Return only items that belong to the given templates. |
| hostids | string/array | Return only items that belong to the given hosts. |
| proxyids | string/array | Return only items that are monitored by the given proxies. |
| interfaceids | string/array | Return only items that use the given host interfaces. |
| graphids | string/array | Return only items that are used in the given graphs. |
| triggerids | string/array | Return only items that are used in the given triggers. |
| applicationids | string/array | Return only items that belong to the given applications. |
| webitems | flag | Include web items in the result. |
| inherited | boolean | If set to true return only items inherited from a template. |
| templated | boolean | If set to true return only items that belong to templates. |
| monitored | boolean | If set to true return only enabled items that belong to monitored hosts. |
| group | string | Return only items that belong to a group with the given name. |
| host | string | Return only items that belong to a host with the given name. |
| application | string | Return only items that belong to an application with the given name. |
| with\_triggers | boolean | If set to true return only items that are used in triggers. |
|  | | |
| selectHosts | query | Returns the host that the item belongs to as an array in the hosts property. |
| selectInterfaces | query | Returns the host interface used by the item as an array in the interfaces property. |
| selectTriggers | query | Return triggers that the item is used in in the triggers property.   Supports count. |
| selectGraphs | query | Return graphs that contain the item in the graphs property.   Supports count. |
| selectApplications | query | Return the applications that the item belongs to in the applications property. |
| selectDiscoveryRule | query | Return the LLD rule that created the item in the discoveryRule property. |
| selectItemDiscovery | query | Return the item discovery object in the itemDiscovery property. The item discovery object links the item to an item prototype from which it was created.   It has the following properties:  itemdiscoveryid - (string) ID of the item discovery;  itemid - (string) ID of the discovered item;  parent\_itemid - (string) ID of the item prototype from which the item has been created;  key\_ - (string) key of the item prototype;  lastcheck - (timestamp) time when the item was last discovered;  ts\_delete - (timestamp) time when an item that is no longer discovered will be deleted. |
| selectPreprocessing | query | Return item preprocessing options in preprocessing property.   It has the following properties:  type - (string) The preprocessing option types:  1 - Custom multiplier;  2 - Right trim;  3 - Left trim;  4 - Trim;  5 - Regular expression matching;  6 - Boolean to decimal;  7 - Octal to decimal;  8 - Hexadecimal to decimal;  9 - Simple change;  10 - Change per second.   params - (string) Additional parameters used by preprocessing option. Multiple parameters are separated by LF (\n)character. |
|  | | |
| filter | object | Return only those results that exactly match the given filter.  Accepts an array, where the keys are property names, and the values are either a single value or an array of values to match against.   Supports additional filters:  host - technical name of the host that the item belongs to. |
| limitSelects | integer | Limits the number of records returned by subselects.   Applies to the following subselects:  selectGraphs - results will be sorted by name;  selectTriggers - results will be sorted by description. |
| sortfield | string/array | Sort the result by the given properties.   Possible values are: itemid, name, key\_, delay, history, trends, type and status. |
| countOutput | boolean | These parameters being common for all get methods are described in detail in the [reference commentary](https://www.zabbix.com/documentation/3.4/manual/api/reference_commentary#common_get_method_parameters) page. |
| editable | boolean |
| excludeSearch | boolean |
| limit | integer |
| output | query |
| preservekeys | boolean |
| search | object |
| searchByAny | boolean |
| searchWildcardsEnabled | boolean |
| sortorder | string/array |
| startSearch | boolean |

### Resopne

|  |
| --- |
| {  "jsonrpc": "2.0",  "result": [  {  "itemid": "28557",  "type": "0",  "snmp\_community": "",  "snmp\_oid": "",  "hostid": "10254",  "name": "Total sum of incoming and outgoing network card ",  "key\_": "net.if.total[ens33,bytes]",  "delay": "30s",  "history": "90d",  "trends": "365d",  "status": "1",  "value\_type": "3",  "trapper\_hosts": "",  "units": "",  "snmpv3\_securityname": "",  "snmpv3\_securitylevel": "0",  "snmpv3\_authpassphrase": "",  "snmpv3\_privpassphrase": "",  "formula": "",  "error": "",  "lastlogsize": "0",  "logtimefmt": "",  "templateid": "0",  "valuemapid": "0",  "params": "",  "ipmi\_sensor": "",  "authtype": "0",  "username": "",  "password": "",  "publickey": "",  "privatekey": "",  "mtime": "0",  "flags": "0",  "interfaceid": "2",  "port": "",  "description": "",  "inventory\_link": "0",  "lifetime": "30d",  "snmpv3\_authprotocol": "0",  "snmpv3\_privprotocol": "0",  "state": "0",  "snmpv3\_contextname": "",  "evaltype": "0",  "jmx\_endpoint": "",  "master\_itemid": "0",  "lastclock": "1510297137",  "lastns": "870385189",  "lastvalue": "1952826459",  "prevvalue": "1952708139"  }  ],  "id": 1  } |

## 监控项的删除

### Request

|  |
| --- |
| curl -i -X POST -H 'Content-Type:application/json' -d'{  "jsonrpc": "2.0",  "method": "item.delete",  "params": [  "28557"  ],  "auth": "e22103c89888c4a37dc7e288ccf02a76",  "id": 1  }' http://192.168.12.232/api\_jsonrpc.php |

Parameters

(array) IDs of the items to delete.

### Respone

|  |
| --- |
| {  "jsonrpc": "2.0",  "result": {  "itemids": [  "28557"  ]  },  "id": 1  } |