

itemprototype.get

Description

integer/array itemprototype.get(object **parameters**)

The method allows to retrieve item prototypes according to the given parameters.

Parameters

(object) Parameters defining the desired output.

The method supports the following parameters.

Parameter	Type	Description
discoveryids	string/array	Return only item prototypes that belong to the given LLD rules.
graphids	string/array	Return only item prototypes that are used in the given graph prototypes.
hostids	string/array	Return only item prototypes that belong to the given hosts.
inherited	boolean	If set to <code>true</code> return only item prototypes inherited from a template.
itemids	string/array	Return only item prototypes with the given IDs.
monitored	boolean	If set to <code>true</code> return only enabled item prototypes that belong to monitored hosts.
templated	boolean	If set to <code>true</code> return only item prototypes that belong to templates.
templateids	string/array	Return only item prototypes that belong to the given templates.
triggerids	string/array	Return only item prototypes that are used in the given trigger prototypes.
selectApplications	query	Return applications that the item prototype belongs to in the <code>applications</code> property.
selectApplicationPrototypes	query	Return application prototypes linked to item prototype in <code>applicationPrototypes</code> property.
selectDiscoveryRule	query	Return the low-level discovery rule that the graph prototype belongs to in the <code>discoveryRule</code> property.
selectGraphs	query	Return graph prototypes that the item prototype is used in in the <code>graphs</code> property. Supports count.
selectHosts	query	Returns the host that the item prototype belongs to as an array in the <code>hosts</code> property.
selectTriggers	query	Return trigger prototypes that the item prototype is used in in the <code>triggers</code> property. Supports count.

Parameter	Type	Description
selectPreprocessing	query	<p>Return item preprocessing options in the preprocessing property.</p> <p>It has the following properties:</p> <p>type - (string) The preprocessing option type:</p> <ul style="list-style-type: none"> 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; 11 - XML XPath; 12 - JSONPath; 13 - In range; 14 - Matches regular expression; 15 - Does not match regular expression; 16 - Check for error in JSON; 17 - Check for error in XML; 18 - Check for error using regular expression; 19 - Discard unchanged; 20 - Discard unchanged with heartbeat; 21 - JavaScript; 22 - Prometheus pattern; 23 - Prometheus to JSON. <p>params - (string) Additional parameters used by preprocessing option. Multiple parameters are separated by LF (\n) character.</p> <p>error_handler - (string) Action type used in case of preprocessing step failure:</p> <ul style="list-style-type: none"> 0 - Error message is set by Zabbix server; 1 - Discard value; 2 - Set custom value; 3 - Set custom error message. <p>error_handler_params - (string) Error handler parameters.</p>
filter	object	<p>Return only those results that exactly match the given filter.</p> <p>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.</p> <p>Supports additional filters:</p> <p>host - technical name of the host that the item prototype belongs to.</p>

Parameter	Type	Description
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, type and status.
countOutput	boolean	These parameters being common for all get methods are described in detail in the reference commentary .
editable	boolean	
excludeSearch	boolean	
limit	integer	
output	query	
preservekeys	boolean	
search	object	
searchByAny	boolean	
searchWildcardsEnabled	boolean	
sortorder	string/array	
startSearch	boolean	

Return values

(integer/array) Returns either:

- an array of objects;
- the count of retrieved objects, if the countOutput parameter has been used.

Examples

Retrieving item prototypes from an LLD rule

Retrieve all item prototypes from an LLD rule.

Request:

```
{
  "jsonrpc": "2.0",
  "method": "itemprototype.get",
  "params": {
    "output": "extend",
    "discoveryids": "27426"
  },
  "auth": "038e1d7b1735c6a5436ee9eae095879e",
  "id": 1
}
```

Response:

```
{
  "jsonrpc": "2.0",
  "result": [
    {
      "itemid": "23077",
      "type": "0",
      "snmp_community": "",
      "snmp_oid": "",
      "hostid": "10079",
      "name": "Incoming network traffic on $1",
      "key_": "net.if.in[en0]",
      "delay": "1m",
      "history": "1w",
      "trends": "365d",
      "status": "0",
      "value_type": "3",
      "trapper_hosts": "",
      "units": "bps",
      "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": "0",
      "port": "",
      "description": "",
      "inventory_link": "0",
      "lifetime": "30d",
      "snmpv3_authprotocol": "0",
      "snmpv3_privprotocol": "0",
      "state": "0",
      "snmpv3_contextname": "",
      "evaltype": "0",
      "jmx_endpoint": ""
    }
  ]
}
```

```
"master_itemid": "0",
"timeout": "3s",
"url": "",
"query_fields": [],
"posts": "",
"status_codes": "200",
"follow_redirects": "1",
"post_type": "0",
"http_proxy": "",
"headers": [],
"retrieve_mode": "0",
"request_method": "0",
"output_format": "0",
"ssl_cert_file": "",
"ssl_key_file": "",
"ssl_key_password": "",
"verify_peer": "0",
"verify_host": "0",
"allow_traps": "0",
"lastclock": "0",
"lastns": "0",
"lastvalue": "0",
"prevvalue": "0"
},
{
  "itemid": "10010",
  "type": "0",
  "snmp_community": "",
  "snmp_oid": "",
  "hostid": "10001",
  "name": "Processor load (1 min average per core)",
  "key_": "system.cpu.load[percpu,avg1]",
  "delay": "1m",
  "history": "1w",
  "trends": "365d",
  "status": "0",
  "value_type": "0",
  "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": "0",
    "port": "",
    "description": "The processor load is calculated as system CPU
load divided by number of CPU cores.",
    "inventory_link": "0",
    "lifetime": "0",
    "snmpv3_authprotocol": "0",
    "snmpv3_privprotocol": "0",
    "state": "0",
    "snmpv3_contextname": "",
    "evaltype": "0",
    "jmx_endpoint": "",
    "master_itemid": "0",
    "timeout": "3s",
    "url": "",
    "query_fields": [],
    "posts": "",
    "status_codes": "200",
    "follow_redirects": "1",
    "post_type": "0",
    "http_proxy": "",
    "headers": [],
    "retrieve_mode": "0",
    "request_method": "0",
    "output_format": "0",
    "ssl_cert_file": "",
    "ssl_key_file": "",
    "ssl_key_password": "",
    "verify_peer": "0",
    "verify_host": "0",
    "allow_traps": "0",
    "lastclock": "0",
    "lastns": "0",
    "lastvalue": "0",
    "prevvalue": "0"
  }
],
  "id": 1
}
```

Finding dependent item

Find one Dependent item for item with ID "25545".

Request:

```
{
  "jsonrpc": "2.0",
  "method": "item.get",
  "params": {
    "output": "extend",
    "filter": {
      "type": "18",
      "master_itemid": "25545"
    },
    "limit": "1"
  },
  "auth": "038e1d7b1735c6a5436ee9eae095879e",
  "id": 1
}
```

Response:

```
{
  "jsonrpc": "2.0",
  "result": [
    {
      "itemid": "25547",
      "type": "18",
      "snmp_community": "",
      "snmp_oid": "",
      "hostid": "10116",
      "name": "Seconds",
      "key_": "apache.status.uptime.seconds",
      "delay": "0",
      "history": "90d",
      "trends": "365d",
      "status": "0",
      "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": "0",
    "port": "",
    "description": "",
    "inventory_link": "0",
    "lifetime": "30d",
    "snmpv3_authprotocol": "0",
    "snmpv3_privprotocol": "0",
    "state": "0",
    "snmpv3_contextname": "",
    "evaltype": "0",
    "master_itemid": "25545",
    "jmx_endpoint": "",
    "master_itemid": "0",
    "timeout": "3s",
    "url": "",
    "query_fields": [],
    "posts": "",
    "status_codes": "200",
    "follow_redirects": "1",
    "post_type": "0",
    "http_proxy": "",
    "headers": [],
    "retrieve_mode": "0",
    "request_method": "0",
    "output_format": "0",
    "ssl_cert_file": "",
    "ssl_key_file": "",
    "ssl_key_password": "",
    "verify_peer": "0",
    "verify_host": "0",
    "allow_traps": "0",
    "lastclock": "0",
    "lastns": "0",
    "lastvalue": "0",
    "prevvalue": "0"
  }
],
  "id": 1
}
```


Find HTTP agent item prototype

Find HTTP agent item prototype with request method HEAD for specific host id.

Request:

```
{
  "jsonrpc": "2.0",
  "method": "itemprototype.get",
  "params": {
    "hostids": "10254",
    "filter": {
      "type": "19",
      "request_method": "3"
    }
  },
  "id": 17,
  "auth": "d678e0b85688ce578ff061bd29a20d3b"
}
```

Response:

```
{
  "jsonrpc": "2.0",
  "result": [
    {
      "itemid": "28257",
      "type": "19",
      "snmp_community": "",
      "snmp_oid": "",
      "hostid": "10254",
      "name": "discovered",
      "key_": "item[#{INAME}]",
      "delay": "#{IUPDATE}",
      "history": "90d",
      "trends": "30d",
      "status": "0",
      "value_type": "3",
      "trapper_hosts": "",
      "units": "",
      "snmpv3_securityname": "",
      "snmpv3_securitylevel": "0",
      "snmpv3_authpassphrase": "",
      "snmpv3_privpassphrase": "",
      "formula": "",
      "error": "",
      "lastlogsize": "0",
      "logtimefmt": "",
      "templateid": "28255",
    }
  ]
}
```

```
    "valuemapid": "0",
    "params": "",
    "ipmi_sensor": "",
    "authtype": "0",
    "username": "",
    "password": "",
    "publickey": "",
    "privatekey": "",
    "mtime": "0",
    "flags": "2",
    "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",
    "timeout": "3s",
    "url": "{#IURL}",
    "query_fields": [],
    "posts": "",
    "status_codes": "",
    "follow_redirects": "0",
    "post_type": "0",
    "http_proxy": "",
    "headers": [],
    "retrieve_mode": "0",
    "request_method": "3",
    "output_format": "0",
    "ssl_cert_file": "",
    "ssl_key_file": "",
    "ssl_key_password": "",
    "verify_peer": "0",
    "verify_host": "0",
    "allow_traps": "0"
  }
],
  "id": 17
}
```

See also

- [Application](#)
- [Host](#)

- [Graph prototype](#)
- [Trigger prototype](#)

Source

CItemPrototype::get() in *frontends/php/include/classes/api/services/CItemPrototype.php*.

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