

host.get

Description

integer/array `host.get(object parameters)`

The method allows to retrieve hosts according to the given parameters.

Parameters

(object) Parameters defining the desired output.

The method supports the following parameters.

Parameter	Type	Description
groupids	string/array	Return only hosts that belong to the given groups.
applicationids	string/array	Return only hosts that have the given applications.
dserviceids	string/array	Return only hosts that are related to the given discovered services.
graphids	string/array	Return only hosts that have the given graphs.
hostids	string/array	Return only hosts with the given host IDs.
httptestids	string/array	Return only hosts that have the given web checks.
interfaceids	string/array	Return only hosts that use the given interfaces.
itemids	string/array	Return only hosts that have the given items.
maintenanceids	string/array	Return only hosts that are affected by the given maintenances.
monitored_hosts	flag	Return only monitored hosts.
proxy_hosts	flag	Return only proxies.
proxyids	string/array	Return only hosts that are monitored by the given proxies.
templated_hosts	flag	Return both hosts and templates.
templateids	string/array	Return only hosts that are linked to the given templates.
triggerids	string/array	Return only hosts that have the given triggers.
with_items	flag	Return only hosts that have items. Overrides the <code>with_monitored_items</code> and <code>with_simple_graph_items</code> parameters.
with_item_prototypes	flag	Return only hosts that have item prototypes. Overrides the <code>with_simple_graph_item_prototypes</code> parameter.
with_simple_graph_item_prototypes	flag	Return only hosts that have item prototypes, which are enabled for creation and have numeric type of information.
with_applications	flag	Return only hosts that have applications.

Parameter	Type	Description
with_graphs	flag	Return only hosts that have graphs.
with_graph_prototypes	flag	Return only hosts that have graph prototypes.
with_httptests	flag	Return only hosts that have web checks. Overrides the with_monitored_httptests parameter.
with_monitored_httptests	flag	Return only hosts that have enabled web checks.
with_monitored_items	flag	Return only hosts that have enabled items. Overrides the with_simple_graph_items parameter.
with_monitored_triggers	flag	Return only hosts that have enabled triggers. All of the items used in the trigger must also be enabled.
with_simple_graph_items	flag	Return only hosts that have items with numeric type of information.
with_triggers	flag	Return only hosts that have triggers. Overrides the with_monitored_triggers parameter.
withProblemsSuppressed	boolean	Return hosts that have suppressed problems. Possible values: null - (default) all hosts; true - only hosts with suppressed problems; false - only hosts with unsuppressed problems.
evaltype	integer	Rules for tag searching. Possible values: 0 - (default) And/Or; 2 - Or.
severities	integer/array	Return hosts that have only problems with given severities. Applies only if problem object is trigger.
tags	array/object	Return only hosts with given tags. Exact match by tag and case-sensitive or case-insensitive search by tag value depending on operator value. Format: [{"tag": "<tag>", "value": "<value>", "operator": "<operator>"}, ...]. An empty array returns all hosts. Possible operator values: 0 - (default) Contains; 1 - Equals.
inheritedTags	boolean	Return hosts that have given tags also in all of their linked templates. Default: Possible values: true - linked templates must also have given tags; false - (default) linked template tags are ignored.

Parameter	Type	Description
selectApplications	query	Return an applications property with host applications. Supports count.
selectDiscoveries	query	Return a discoveries property with host low-level discovery rules. Supports count.
selectDiscoveryRule	query	Return a discoveryRule property with the low-level discovery rule that created the host (from host prototype in VMware monitoring).
selectGraphs	query	Return a graphs property with host graphs. Supports count.
selectGroups	query	Return a groups property with host groups data that the host belongs to.
selectHostDiscovery	query	Return a hostDiscovery property with host discovery object data. The host discovery object links a discovered host to a host prototype or a host prototypes to an LLD rule and has the following properties: host - (<i>string</i>) host of the host prototype; hostid - (<i>string</i>) ID of the discovered host or host prototype; parent_hostid - (<i>string</i>) ID of the host prototype from which the host has been created; parent_itemid - (<i>string</i>) ID of the LLD rule that created the discovered host; lastcheck - (<i>timestamp</i>) time when the host was last discovered; ts_delete - (<i>timestamp</i>) time when a host that is no longer discovered will be deleted.
selectHttpTests	query	Return an httpTests property with host web scenarios. Supports count.
selectInterfaces	query	Return an interfaces property with host interfaces. Supports count.
selectInventory	query	Return an inventory property with host inventory data.
selectItems	query	Return an items property with host items. Supports count.
selectMacros	query	Return a macros property with host macros.
selectParentTemplates	query	Return a parentTemplates property with templates that the host is linked to. Supports count.

Parameter	Type	Description
selectScreens	query	Return a screens property with host screens. Supports count.
selectTags	query	Return a tags property with host tags.
selectInheritedTags	query	Return an inheritedTags property with tags that are on all templates which are linked to host.
selectTriggers	query	Return a triggers property with host triggers. Supports count.
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. Allows filtering by interface properties.
limitSelects	integer	Limits the number of records returned by subselects. Applies to the following subselects: selectParentTemplates - results will be sorted by host; selectInterfaces; selectItems - sorted by name; selectDiscoveries - sorted by name; selectTriggers - sorted by description; selectGraphs - sorted by name; selectApplications - sorted by name; selectScreens - sorted by name.
search	object	Return results that match the given wildcard search. Accepts an array, where the keys are property names, and the values are strings to search for. If no additional options are given, this will perform a LIKE “%...%” search. Allows searching by interface properties. Works only with text fields.
searchInventory	object	Return only hosts that have inventory data matching the given wildcard search. This parameter is affected by the same additional parameters as search.
sortfield	string/array	Sort the result by the given properties. Possible values are: hostid, host, name, status.

Parameter	Type	Description
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	
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 data by name

Retrieve all data about two hosts named "Zabbix server" and "Linux server".

Request:

```
{
  "jsonrpc": "2.0",
  "method": "host.get",
  "params": {
    "filter": {
      "host": [
        "Zabbix server",
        "Linux server"
      ]
    }
  },
  "auth": "038e1d7b1735c6a5436ee9eae095879e",
  "id": 1
}
```

Response:

```
{
  "jsonrpc": "2.0",
  "result": [
```

```
{
  "maintenances": [],
  "hostid": "10160",
  "proxy_hostid": "0",
  "host": "Zabbix server",
  "status": "0",
  "disable_until": "0",
  "error": "",
  "available": "0",
  "errors_from": "0",
  "lastaccess": "0",
  "ipmi_authtype": "-1",
  "ipmi_privilege": "2",
  "ipmi_username": "",
  "ipmi_password": "",
  "ipmi_disable_until": "0",
  "ipmi_available": "0",
  "snmp_disable_until": "0",
  "snmp_available": "0",
  "maintenanceid": "0",
  "maintenance_status": "0",
  "maintenance_type": "0",
  "maintenance_from": "0",
  "ipmi_errors_from": "0",
  "snmp_errors_from": "0",
  "ipmi_error": "",
  "snmp_error": "",
  "jmx_disable_until": "0",
  "jmx_available": "0",
  "jmx_errors_from": "0",
  "jmx_error": "",
  "name": "Zabbix server",
  "description": "The Zabbix monitoring server.",
  "tls_connect": "1",
  "tls_accept": "1",
  "tls_issuer": "",
  "tls_subject": "",
  "tls_psk_identity": "",
  "tls_psk": ""
},
{
  "maintenances": [],
  "hostid": "10167",
  "proxy_hostid": "0",
  "host": "Linux server",
  "status": "0",
  "disable_until": "0",
  "error": "",
  "available": "0",
  "errors_from": "0",
  "lastaccess": "0",
```

```
    "ipmi_authtype": "-1",
    "ipmi_privilege": "2",
    "ipmi_username": "",
    "ipmi_password": "",
    "ipmi_disable_until": "0",
    "ipmi_available": "0",
    "snmp_disable_until": "0",
    "snmp_available": "0",
    "maintenanceid": "0",
    "maintenance_status": "0",
    "maintenance_type": "0",
    "maintenance_from": "0",
    "ipmi_errors_from": "0",
    "snmp_errors_from": "0",
    "ipmi_error": "",
    "snmp_error": "",
    "jmx_disable_until": "0",
    "jmx_available": "0",
    "jmx_errors_from": "0",
    "jmx_error": "",
    "name": "Linux server",
    "description": "",
    "tls_connect": "1",
    "tls_accept": "1",
    "tls_issuer": "",
    "tls_subject": "",
    "tls_psk_identity": "",
    "tls_psk": ""
  },
  "id": 1
}
```

Retrieving host groups

Retrieve names of the groups host “Zabbix server” is member of, but no host details themselves.

Request:

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

```
},
  "auth": "038e1d7b1735c6a5436ee9eae095879e",
  "id": 2
}
```

Response:

```
{
  "jsonrpc": "2.0",
  "result": [
    {
      "hostid": "10085",
      "groups": [
        {
          "groupid": "2",
          "name": "Linux servers",
          "internal": "0",
          "flags": "0"
        },
        {
          "groupid": "4",
          "name": "Zabbix servers",
          "internal": "0",
          "flags": "0"
        }
      ]
    }
  ],
  "id": 2
}
```

Retrieving linked templates

Retrieve the IDs and names of templates linked to host "10084".

Request:

```
{
  "jsonrpc": "2.0",
  "method": "host.get",
  "params": {
    "output": ["hostid"],
    "selectParentTemplates": [
      "templateid",
      "name"
    ],
    "hostids": "10084"
  },
  "id": 1,
}
```



```
"auth": "70785d2b494a7302309b48afcdb3a401"
}
```

Response:

```
{
  "jsonrpc": "2.0",
  "result": [
    {
      "hostid": "10084",
      "parentTemplates": [
        {
          "name": "Template OS Linux",
          "templateid": "10001"
        },
        {
          "name": "Template App Zabbix Server",
          "templateid": "10047"
        }
      ]
    }
  ],
  "id": 1
}
```

Searching by host inventory data

Retrieve hosts that contain "Linux" in the host inventory "OS" field.

Request:

```
{
  "jsonrpc": "2.0",
  "method": "host.get",
  "params": {
    "output": [
      "host"
    ],
    "selectInventory": [
      "os"
    ],
    "searchInventory": {
      "os": "Linux"
    }
  },
  "id": 2,
  "auth": "7f9e00124c75e8f25facd5c093f3e9a0"
}
```

Response:

```
{
  "jsonrpc": "2.0",
  "result": [
    {
      "hostid": "10084",
      "host": "Zabbix server",
      "inventory": {
        "os": "Linux Ubuntu"
      }
    },
    {
      "hostid": "10107",
      "host": "Linux server",
      "inventory": {
        "os": "Linux Mint"
      }
    }
  ],
  "id": 1
}
```

Searching by host tags

Retrieve hosts that have tag “Host name” equal to “Linux server”.

Request:

```
{
  "jsonrpc": "2.0",
  "method": "host.get",
  "params": {
    "output": ["hostid"],
    "selectTags": "extend",
    "evaltype": 0,
    "tags": [
      {
        "tag": "Host name",
        "value": "Linux server",
        "operator": 1
      }
    ]
  },
  "auth": "7f9e00124c75e8f25facd5c093f3e9a0",
  "id": 1
}
```

Response:

```
{
  "jsonrpc": "2.0",
  "result": [
    {
      "hostid": "10085",
      "tags": [
        {
          "tag": "Host name",
          "value": "Linux server"
        },
        {
          "tag": "OS",
          "value": "RHEL 7"
        }
      ]
    }
  ],
  "id": 1
}
```

Retrieve hosts that have “Disaster” problems. Request:

```
{
  "jsonrpc": "2.0",
  "method": "host.get",
  "params": {
    "output": ["name"]
    "severities": 5
  },
  "auth": "038e1d7b1735c6a5436ee9eae095879e",
  "id": 1
}
```

Response:

```
{
  "jsonrpc": "2.0",
  "result": [
    {
      "hostid": "10160",
      "name": "Zabbix server",
    }
  ],
  "id": 1
}
```

Retrieve hosts that have “Average” and “High” problems. Request:

```
{
  "jsonrpc": "2.0",
  "method": "host.get",
  "params": {
    "output": ["name"]
    "severities": [3, 4]
  },
  "auth": "038e1d7b1735c6a5436ee9eae095879e",
  "id": 1
}
```

Response:

```
{
  "jsonrpc": "2.0",
  "result": [
    {
      "hostid": "20170",
      "host": "Database",
    },
    {
      "hostid": "20183",
      "host": "workstation",
    }
  ],
  "id": 1
}
```

See also

- [Host group](#)
- [Template](#)
- [User macro](#)
- [Host interface](#)

Source

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

From:

<https://www.zabbix.com/documentation/5.0/> - **Zabbix Documentation 5.0**

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<https://www.zabbix.com/documentation/5.0/manual/api/reference/host/get>

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