

## > Item object

The following objects are directly related to the `item` API.

### Item

Web items cannot be directly created, updated or deleted via the Zabbix API.

The item object has the following properties.

Property	Type	Description
<code>itemid</code>	string	( <i>readonly</i> ) ID of the item.
<b>delay</b> (required)	integer	Update interval of the item in seconds.
<b>hostid</b> (required)	string	ID of the host that the item belongs to.
<b>interfaceid</b> (required)	string	ID of the item's host interface.
<b>key_</b> (required)	string	Item key.
<b>name</b> (required)	string	Name of the item.
<b>type</b> (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.
<b>value_type</b> (required)	integer	Type of information of the item.  Possible values: 0 - numeric float; 1 - character; 2 - log; 3 - numeric unsigned; 4 - text.

Property	Type	Description
authtype	integer	SSH authentication method. Used only by SSH agent items.  Possible values: 0 - (default) password; 1 - public key.
data_type	integer	Data type of the item.  Possible values: 0 - (default) decimal; 1 - octal; 2 - hexadecimal; 3 - boolean.
delay_flex	string	Flexible intervals as a serialized string.  Each serialized flexible interval consists of an update interval and a <a href="#">time period</a> separated by a forward slash. Multiple intervals are separated by a colon.
delta	integer	Value that will be stored.  Possible values: 0 - (default) as is; 1 - Delta, speed per second; 2 - Delta, simple change.
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.
formula	integer/float	Custom multiplier.  Default: 1.
history	integer	Number of days to keep item's history data.  Default: 90.
inventory_link	integer	ID of the host inventory field that is populated by the item.  Refer to the <a href="#">host inventory page</a> 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.
lastns	integer	(readonly) Nanoseconds when the item was last updated.
lastvalue	string	(readonly) Last value of the item.
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.
multiplier	integer	Whether to use a custom multiplier.

Property	Type	Description
params	string	Additional parameters depending on the type of the item: - executed script for SSH and telnet items; - additional parameters for database monitor items; - formula for calculated items.
password	string	Password for authentication. Used only by SSH, telnet and JMX items.
port	string	Port monitored by the item. Used only by SNMP items.
prevorgvalue	string	<i>(readonly)</i> Raw previous value of the item.
prevvalue	string	<i>(readonly)</i> Previous value of the item.
privatekey	string	Name of the private key file.
publickey	string	Name of the public key file.
snmp_community	string	SNMP community.
snmp_oid	string	SNMP OID.
snmpv3_authpassphrase	string	SNMPv3 auth passphrase. Used only by SNMPv3 items.
snmpv3_privpassphrase	string	SNMPv3 priv passphrase. Used only by SNMPv3 items.
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.
status	integer	Status of the item.  Possible values: 0 - <i>(default)</i> enabled item; 1 - disabled item; 3 - unsupported item.
templateid	string	<i>(readonly)</i> ID of the parent template item.
trapper_hosts	string	Allowed hosts. Used only by trapper items.
trends	integer	Number of days to keep item's trends data.  Default: 365.
units	string	Value units.
username	string	Username for authentication. Used only by SSH, telnet and JMX items.  Required by SSH and telnet items.
valuemapid	string	ID of the associated value map.

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