

Man page of ZABBIX\_SENDER

# ZABBIX\_SENDER

Section: User Commands (1)

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## NAME

zabbix\_sender - Zabbix sender utility

## SYNOPSIS

```
zabbix_sender [-v] -z server [-p port] [-I IP-address] -s host -k key -o value
zabbix_sender [-v] -z server [-p port] [-I IP-address] [-s host] [-T] [-r] -i input-file
zabbix_sender [-v] -c config-file [-z server] [-p port] [-I IP-address] [-s host] -k key -o value
zabbix_sender [-v] -c config-file [-z server] [-p port] [-I IP-address] [-s host] [-T] [-r] -i input-file
zabbix_sender [-v] -z server [-p port] [-I IP-address] -s host --tls-connect cert --tls-ca-file CA-file
--tls-crl-file CRL-file] [--tls-server-cert-issuer cert-issuer] [--tls-server-cert-subject cert-subject]
--tls-cert-file cert-file --tls-key-file key-file [--tls-cipher13 cipher-string] [--tls-cipher cipher-
string] -k key -o value
zabbix_sender [-v] -z server [-p port] [-I IP-address] [-s host] --tls-connect cert --tls-ca-file CA-
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tls-psk-identity PSK-identity --tls-psk-file PSK-file [--tls-cipher13 cipher-string] [--tls-cipher
cipher-string] [-T] [-r] -i input-file
zabbix_sender -h
```

## zabbix\_sender -V

# DESCRIPTION

**zabbix\_sender** is a command line utility for sending monitoring data to Zabbix server or proxy. On the Zabbix server an item of type **Zabbix trapper** should be created with corresponding key. Note that incoming values will only be accepted from hosts specified in **Allowed hosts** field for this item.

# OPTIONS

**-c, --config** *config-file*

Use *config-file*. **Zabbix sender** reads server details from the agentd configuration file. By default **Zabbix sender** does not read any configuration file. Only parameters **Hostname**, **ServerActive**, **SourceIP**, **TLSCConnect**, **TLSCAFile**, **TLSCRLFile**, **TLSServerCertIssuer**, **TLSServerCertSubject**, **TLSCertFile**, **TLSKeyFile**, **TLSPSKIdentity** and **TLSPSKFile** are supported. All addresses defined in the agent **ServerActive** configuration parameter are used for sending data. If sending of batch data fails to one address, the following batches are not sent to this address.

**-z, --zabbix-server** *server*

Hostname or IP address of Zabbix server. If a host is monitored by a proxy, proxy hostname or IP address should be used instead. When used together with **--config**, overrides the entries of **ServerActive** parameter specified in agentd configuration file.

**-p, --port** *port*

Specify port number of Zabbix server trapper running on the server. Default is 10051. When used together with **--config**, overrides the port entries of **ServerActive** parameter specified in agentd configuration file.

**-l, --source-address** *IP-address*

Specify source IP address. When used together with **--config**, overrides **SourceIP** parameter specified in agentd configuration file.

**-s, --host** *host*

Specify host name the item belongs to (as registered in Zabbix frontend). Host IP address and DNS name will not work. When used together with **--config**, overrides **Hostname** parameter specified in agentd configuration file.

**-k, --key** *key*

Specify item key to send value to.

**-o, --value** *value*

Specify item value.

**-i, --input-file** *input-file*

Load values from input file. Specify - as **<input-file>** to read values from standard input. Each line of file contains whitespace delimited: **<hostname> <key> <value>**. Each value must be specified on its own line. Each line must contain 3 whitespace delimited entries: **<hostname> <key> <value>**, where "hostname" is the name of monitored host as registered in Zabbix frontend, "key" is target item key and "value" - the value to send. Specify - as **<hostname>** to use hostname from agent configuration file or from **--host** argument.

An example of a line of an input file:

**"Linux DB3" db.connections 43**

The value type must be correctly set in item configuration of Zabbix frontend. Zabbix sender will send up to 250 values in one connection. Contents of the input file must be in the UTF-8

encoding. All values from the input file are sent in a sequential order top-down. Entries must be formatted using the following rules:

- Quoted and non-quoted entries are supported.
- Double-quote is the quoting character.
- Entries with whitespace must be quoted.
- Double-quote and backslash characters inside quoted entry must be escaped with a backslash.
- Escaping is not supported in non-quoted entries.
- Linefeed escape sequences (\n) are supported in quoted strings.
- Linefeed escape sequences are trimmed from the end of an entry.

#### **-T, --with-timestamps**

This option can be only used with **--input-file** option.

Each line of the input file must contain 4 whitespace delimited entries: **<hostname> <key> <timestamp> <value>**. Timestamp should be specified in Unix timestamp format. If target item has triggers referencing it, all timestamps must be in an increasing order, otherwise event calculation will not be correct.

An example of a line of the input file:

**"Linux DB3" db.connections 1429533600 43**

For more details please see option **--input-file**.

If a timestamped value is sent for a host that is in a "no data" maintenance type then this value will be dropped; however, it is possible to send a timestamped value in for an expired maintenance period and it will be accepted.

#### **-r, --real-time**

Send values one by one as soon as they are received. This can be used when reading from standard input.

#### **--tls-connect *value***

How to connect to server or proxy. Values:

**unencrypted**  
**connect without encryption (default)**

**psk**  
**connect using TLS and a pre-shared key**

**cert**  
**connect using TLS and a certificate**

- tls-ca-file *CA-file***  
Full pathname of a file containing the top-level CA(s) certificates for peer certificate verification.
- tls-crl-file *CRL-file***  
Full pathname of a file containing revoked certificates.
- tls-server-cert-issuer *cert-issuer***  
Allowed server certificate issuer.
- tls-server-cert-subject *cert-subject***  
Allowed server certificate subject.
- tls-cert-file *cert-file***  
Full pathname of a file containing the certificate or certificate chain.
- tls-key-file *key-file***  
Full pathname of a file containing the private key.
- tls-psk-identity *PSK-identity***  
PSK-identity string.
- tls-psk-file *PSK-file***  
Full pathname of a file containing the pre-shared key.
- tls-cipher13 *cipher-string***  
Cipher string for OpenSSL 1.1.1 or newer for TLS 1.3. Override the default ciphersuite selection criteria. This option is not available if OpenSSL version is less than 1.1.1.
- tls-cipher *cipher-string***  
GnuTLS priority string (for TLS 1.2 and up) or OpenSSL cipher string (only for TLS 1.2). Override the default ciphersuite selection criteria.

- v, --verbose**  
Verbose mode, -vv for more details.
- h, --help**  
Display this help and exit.
- V, --version**  
Output version information and exit.

## EXIT STATUS

The exit status is 0 if the values were sent and all of them were successfully processed by server. If data was sent, but processing of at least one of the values failed, the exit status is 2. If data sending failed, the exit status is 1.

## EXAMPLES

```
zabbix_sender -c /etc/zabbix/zabbix_agentd.conf -k  
mysql.queries -o 342.45
```

**Send 342.45 as the value for mysql.queries item of monitored host. Use monitored host and Zabbix server defined in agent configuration file.**

```
zabbix_sender -c /etc/zabbix/zabbix_agentd.conf -s "Monitored  
Host" -k mysql.queries -o 342.45
```

**Send 342.45 as the value for mysql.queries item of Monitored Host host using Zabbix server defined in agent configuration file.**

```
zabbix_sender -z 192.168.1.113 -i data_values.txt
```

**Send values from file data\_values.txt to Zabbix server with IP 192.168.1.113. Host names and keys are defined in the file.**

```
echo "- hw.serial.number 1287872261 SQ4321ASDF" |  
zabbix_sender -c /usr/local/etc/zabbix_agentd.conf -T -i -
```

Send a timestamped value from the commandline to Zabbix server, specified in the agent configuration file. Dash in the input data indicates that hostname also should be used from the same configuration file.

```
echo ""Zabbix server" trapper.item "" | zabbix_sender -z  
192.168.1.113 -p 10000 -i -
```

Send empty value of an item to the Zabbix server with IP address 192.168.1.113 on port 10000 from the commandline. Empty values must be indicated by empty double quotes.

```
zabbix_sender -z 192.168.1.113 -s "Monitored Host" -k  
mysql.queries -o 342.45 --tls-connect cert --tls-ca-file  
/home/zabbix/zabbix_ca_file --tls-cert-file  
/home/zabbix/zabbix_agentd.crt --tls-key-file  
/home/zabbix/zabbix_agentd.key
```

Send 342.45 as the value for mysql.queries item in Monitored Host host to server with IP 192.168.1.113 using TLS with certificate.

```
zabbix_sender -z 192.168.1.113 -s "Monitored Host" -k  
mysql.queries -o 342.45 --tls-connect psk --tls-psk-identity "PSK  
ID Zabbix agentd" --tls-psk-file /home/zabbix/zabbix_agentd.psk
```

Send 342.45 as the value for mysql.queries item in Monitored Host host to server with IP 192.168.1.113 using TLS with pre-shared key (PSK).

## SEE ALSO

Documentation <https://www.zabbix.com/manuals>

[zabbix\\_agentd\(8\)](#), [zabbix\\_get\(1\)](#), [zabbix\\_proxy\(8\)](#),  
[zabbix\\_server\(8\)](#)

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