

1 Zabbix Server

Zabbix server is the central process of Zabbix software. Zabbix server can be started by executing:

```
shell> cd sbin
shell> ./zabbix_server
```

Zabbix server runs as a daemon process.

Zabbix server accepts the following command line parameters:

```
-c --config <file>          absolute path to the configuration file
                             (default is /etc/zabbix/zabbix_server.conf)
-n --new-nodeid <nodeid>    convert database data to new nodeid
-R --runtime-control <option> perform administrative functions
-h --help                    give this help
-V --version                  display version number
```

-R or --runtime-control option is supported since Zabbix 1.8.6.
Runtime control is not supported on OpenBSD and NetBSD.

In order to get more help run:

```
shell> zabbix_server -h
```

Example of command line parameters:

```
shell> zabbix_server -c /usr/local/etc/zabbix_server.conf
shell> zabbix_server --help
shell> zabbix_server -V
```

Runtime control

Runtime control options:

Option	Description
config_cache_reload	Reload configuration cache. Ignored if cache is being currently loaded.

Example of using runtime control to reload the server configuration cache:

```
shell> zabbix_server -c /usr/local/etc/zabbix_server.conf -R
config_cache_reload
```

Configuration file

The configuration file contains parameters for zabbix_server. The file must exist and it should have

read permissions for user 'zabbix'. Supported parameters:

Parameter	Mandatory	Range	Default	Description
AlertScriptsPath	no		/home/zabbix/bin/	Location of custom alert scripts
CacheSize	no	128K-1G	8M	Size of configuration cache, in bytes. Shared memory size for storing hosts and items data.
CacheUpdateFrequency	no	1-3600	60	How often Zabbix will perform update of configuration cache, in seconds.
DBHost	no		Based on the underlying library implementation used.	Database host name. If set to localhost, socket is used for MySQL.
DBName	yes			Database name. For SQLite3 path to database file must be provided. DBUser and DBPassword are ignored.
DBPassword	no			Database password. Ignored for SQLite. Comment this line if no password is used.
DBPort	no	1024-65535	3306	Database port when not using local socket. Ignored for SQLite.
DBSocket	no		/tmp/mysql.sock	Path to MySQL socket.
DBUser	no			Database user. Ignored for SQLite.
DebugLevel	no	0-4	3	Specifies debug level 0 - no debug 1 - critical information 2 - error information 3 - warnings 4 - for debugging (produces lots of information)
DisableHousekeeping	no	0-1	0	If set to 1, disables housekeeping.
ExternalScripts	no		/etc/zabbix/externalscripts	Location of external scripts
Fping6Location	no		/usr/sbin/fping6	Location of fping6. Make sure that fping6 binary has root ownership and SUID flag set. Make empty ("Fping6Location=") if your fping utility is capable to process IPv6 addresses.

Parameter	Mandatory	Range	Default	Description
FpingLocation	no		/usr/sbin/fping	Location of fping. Make sure that fping binary has root ownership and SUID flag set!
HistoryCacheSize	no	128K-1G	8M	Size of history cache, in bytes. Shared memory size for storing history data.
HistoryTextCacheSize	no	128K-1G	16M	Size of text history cache, in bytes. Shared memory size for storing character, text or log history data.
HousekeepingFrequency	no	1-24	1	How often Zabbix will perform housekeeping procedure (in hours). Housekeeping is removing unnecessary information from history, alert, and alarms tables. <i>Note:</i> To prevent housekeeper from being overloaded (for example, when history and trend periods are greatly reduced), no more than 4xHousekeepingFrequency hours of outdated history are deleted in one housekeeping cycle, for each item. Thus, if HousekeepingFrequency is 1, no more than 4 hours of outdated history (starting from the oldest entry) will be deleted per cycle.
Include	no			You may include individual files or all files in a directory in the configuration file. See special notes about limitations.
ListenIP	no		0.0.0.0	List of comma delimited IP addresses that the trapper should listen on. Trapper will listen on all network interfaces if this parameter is missing. Multiple IP addresses are supported in version 1.8.3 and higher.
ListenPort	no	1024-32767	10051	Listen port for trapper.

Parameter	Mandatory	Range	Default	Description
LogFileSize	no	0-1024	1	Maximum size of log file in MB. 0 - disable automatic log rotation.
LogFile	no			Name of log file.
LogSlowQueries	no	0-3600000	0	How long a database query may take before being logged (in milliseconds). 0 - don't log slow queries. This option becomes enabled starting with DebugLevel=3. This option is supported in version 1.8.2 and higher.
MaxHousekeeperDelete	no	0-1000000	500	No more than 'MaxHousekeeperDelete' rows (corresponding to [tablename], [field], [value]) will be deleted per one task in one housekeeping cycle. SQLite3 does not use this parameter, deletes all corresponding rows without a limit. If set to 0 then no limit is used at all. In this case you must know what you are doing! This parameter is supported since Zabbix 1.8.2 and applies only to deleting history and trends of already deleted items.
NodeID	no	0-999	0	Unique NodeID in distributed setup. 0 - standalone server
NodeNoEvents	no	0-1	0	If set to '1' local events won't be sent to master node. This won't impact ability of this node to propagate events from its child nodes.
NodeNoHistory	no	0-1	0	If set to '1' local history won't be sent to master node. This won't impact ability of this node to propagate history from its child nodes.
PidFile	no		/tmp/zabbix_server.pid	Name of PID file.

Parameter	Mandatory	Range	Default	Description
ProxyConfigFrequency	no	1-604800	3600	How often Zabbix Server sends configuration data to a Zabbix Proxy in seconds. Used only for proxies in a passive mode. This option is supported in version 1.8.3 and higher.
ProxyDataFrequency	no	1-3600	1	How often Zabbix Server requests history data from a Zabbix Proxy in seconds. Used only for proxies in a passive mode. This option is supported in version 1.8.3 and higher.
SSHKeyLocation	no			Location of public and private keys for SSH checks
SenderFrequency	no	5-3600	30	How often Zabbix will try to send unsent alerts (in seconds).
SourceIP	no			Source IP address for outgoing connections.
StartDBSyncers	no	1-100	4	Number of pre-forked instances of DB Syncers. The upper limit used to be 64 before version 1.8.5. This option is supported in version 1.8.3 and higher.
StartDiscoverers	no	0-250	1	Number of pre-forked instances of discoverers. The upper limit used to be 255 before version 1.8.5.
StartHTTPOllers	no	0-1000	1	Number of pre-forked instances of HTTP pollers. The upper limit used to be 255 before version 1.8.5.
StartIPMIPollers	no	0-1000	0	Number of pre-forked instances of IPMI pollers. The upper limit used to be 255 before version 1.8.5.
StartPingers	no	0-1000	1	Number of pre-forked instances of ICMP pingers. The upper limit used to be 255 before version 1.8.5.

Parameter	Mandatory	Range	Default	Description
StartPollersUnreachable	no	0-1000	1	Number of pre-forked instances of pollers for unreachable hosts (including IPMI). The upper limit used to be 255 before version 1.8.5. This option is missing in version 1.8.3.
StartPollers	no	0-1000	5	Number of pre-forked instances of pollers. The upper limit used to be 255 before version 1.8.5.
StartProxyPollers	no	0-250	1	Number of pre-forked instances of pollers for passive proxies. The upper limit used to be 255 before version 1.8.5. This option is supported in version 1.8.3 and higher.
StartTrappers	no	0-1000	5	Number of pre-forked instances of trappers. The upper limit used to be 255 before version 1.8.5.
Timeout	no	1-30	3	Specifies how long we wait for agent, SNMP device or external check (in seconds).
TmpDir	no		/tmp	Temporary directory.
TrapperTimeout	no	1-300	300	Specifies how many seconds trapper may spend processing new data.
TrendCacheSize	no	128K-1G	4M	Size of trend cache, in bytes. Shared memory size for storing trends data.
UnavailableDelay	no	1-3600	60	How often host is checked for availability during the unavailability period, in seconds.
UnreachableDelay	no	1-3600	15	How often host is checked for availability during the unreachability period, in seconds.
UnreachablePeriod	no	1-3600	45	After how many seconds of unreachability treat a host as unavailable.

Starting from version 1.8.6 Zabbix Server will not start up if invalid (not following *parameter=value* notation) or unknown parameter entry is present in configuration file.

Zabbix supports configuration files only in UTF-8 encoding without **BOM**.

From:

<https://www.zabbix.com/documentation/1.8/> - **Zabbix Documentation 1.8**

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