

1 Zabbix server

The default values reflect daemon defaults, not the values in the shipped configuration files.

The parameters supported in a Zabbix server configuration file:

Parameter	Mandatory	Range	Default	Description
AlertScriptsPath	no		/usr/local/share/zabbix/alertscripts	Location of custom alert scripts (depends on compile-time installation variable <i>datadir</i>).
AllowRoot	no		0	Allow the server to run as 'root'. If disabled and the server is started by 'root', the server will try to switch to the 'zabbix' user instead. Has no effect if started under a regular user. 0 - do not allow 1 - allow This parameter is supported since Zabbix 2.2.0.
CacheSize	no	128K-8G	8M	Size of configuration cache, in bytes. Shared memory size for storing host, item and trigger data. Upper limit used to be 2GB before Zabbix 2.2.3.
CacheUpdateFrequency	no	1-3600	60	How often Zabbix will perform update of configuration cache, in seconds. See also runtime control options.
DBHost	no		localhost	Database host name. In case of MySQL localhost or empty string results in using a socket. In case of PostgreSQL only empty string results in attempt to use socket.
DBName	yes			Database name.
DBPassword	no			Database password. Comment this line if no password is used.
DBPort	no	1024-65535	3306	Database port when not using local socket.
DBSchema	no			Schema name. Used for IBM DB2 and PostgreSQL.
DBSocket	no		/tmp/mysql.sock	Path to MySQL socket.
DBUser	no			Database user.
DebugLevel	no	0-5	3	Specifies debug level: 0 - basic information about starting and stopping of Zabbix processes 1 - critical information 2 - error information 3 - warnings 4 - for debugging (produces lots of information) 5 - extended debugging (produces even more information) See also runtime control options.
ExternalScripts	no		/usr/local/share/zabbix/externalscripts	Location of external scripts (depends on compile-time installation variable <i>datadir</i>).
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.
FpingLocation	no		/usr/sbin/fping	Location of fping. Make sure that fping binary has root ownership and SUID flag set!
HistoryCacheSize	no	128K-2G	16M	Size of history cache, in bytes. Shared memory size for storing history data.
HistoryIndexCacheSize	no	128K-2G	4M	Size of history index cache, in bytes. Shared memory size for indexing history data stored in history cache. The index cache size needs roughly 100 bytes to cache one item. This parameter is supported since Zabbix 3.0.0.
HistoryStorageURL	no			History storage HTTP[S] URL. This parameter is used for Elasticsearch setup.

Parameter	Mandatory	Range	Default	Description
HistoryStorageTypes	no		uint,dbl,str,log,text	Comma separated list of value types to be sent to the history storage. This parameter is used for Elasticsearch setup.
HousekeepingFrequency	no	0-24	1	How often Zabbix will perform housekeeping procedure (in hours). Housekeeping is removing outdated information from the database. <i>Note:</i> To prevent housekeeper from being overloaded (for example, when history and trend periods are greatly reduced), no more than 4 times HousekeepingFrequency hours of outdated information are deleted in one housekeeping cycle, for each item. Thus, if HousekeepingFrequency is 1, no more than 4 hours of outdated information (starting from the oldest entry) will be deleted per cycle. <i>Note:</i> To lower load on server startup housekeeping is postponed for 30 minutes after server start. Thus, if HousekeepingFrequency is 1, the very first housekeeping procedure after server start will run after 30 minutes, and will repeat with one hour delay thereafter. This postponing behavior is in place since Zabbix 2.4.0. Since Zabbix 3.0.0 it is possible to disable automatic housekeeping by setting HousekeepingFrequency to 0. In this case the housekeeping procedure can only be started by <i>housekeeper_execute</i> runtime control option and the period of outdated information deleted in one housekeeping cycle is 4 times the period since the last housekeeping cycle, but not less than 4 hours and not greater than 4 days. See also runtime control options.
Include	no			You may include individual files or all files in a directory in the configuration file. To only include relevant files in the specified directory, the asterisk wildcard character is supported for pattern matching. For example: <code>/absolute/path/to/config/files/*.conf</code> . Pattern matching is supported since Zabbix 2.4.0. See special notes about limitations.

Parameter	Mandatory	Range	Default	Description
JavaGateway	no			IP address (or hostname) of Zabbix Java gateway. Only required if Java pollers are started. This parameter is supported since Zabbix 2.0.0.
JavaGatewayPort	no	1024-32767	10052	Port that Zabbix Java gateway listens on. This parameter is supported since Zabbix 2.0.0.
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 since Zabbix 1.8.3.
ListenPort	no	1024-32767	10051	Listen port for trapper.
LoadModule	no			Module to load at server startup. Modules are used to extend functionality of the server. Format: LoadModule=<module.so> The modules must be located in directory specified by LoadModulePath. It is allowed to include multiple LoadModule parameters.
LoadModulePath	no			Full path to location of server modules. Default depends on compilation options.
LogFile	yes, if LogType is set to <i>file</i> , otherwise no			Name of log file.
LogFileSize	no	0-1024	1	Maximum size of log file in MB. 0 - disable automatic log rotation. <i>Note:</i> If the log file size limit is reached and file rotation fails, for whatever reason, the existing log file is truncated and started anew.
LogType	no		file	Log output type: <i>file</i> - write log to file specified by LogFile parameter, <i>system</i> - write log to syslog, <i>console</i> - write log to standard output. This parameter is supported since Zabbix 3.0.0.
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 parameter is supported since Zabbix 1.8.2.
MaxHousekeeperDelete	no	0-1000000	5000	No more than 'MaxHousekeeperDelete' rows (corresponding to [tablename], [field], [value]) will be deleted per one task in one housekeeping cycle. 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.
PidFile	no		/tmp/zabbix_server.pid	Name of PID file.
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 parameter is supported since Zabbix 1.8.3.
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 parameter is supported since Zabbix 1.8.3.
SNMPTrapperFile	no		/tmp/zabbix_traps.tmp	Temporary file used for passing data from SNMP trap daemon to the server. Must be the same as in zabbix_trap_receiver.pl or SNMPTT configuration file. This parameter is supported since Zabbix 2.0.0.
SocketDir	no		/tmp	Directory to store IPC sockets used by internal Zabbix services. This parameter is supported since Zabbix 3.4.0.
SourceIP	no			Source IP address for outgoing connections.

Parameter	Mandatory	Range	Default	Description
SSHKeyLocation	no			Location of public and private keys for SSH checks and actions
SSLCertLocation	no			Location of SSL client certificate files for client authentication. This parameter is used in web monitoring only and is supported since Zabbix 2.4.
SSLKeyLocation	no			Location of SSL private key files for client authentication. This parameter is used in web monitoring only and is supported since Zabbix 2.4.
SSLCALocation	no			Override the location of certificate authority (CA) files for SSL server certificate verification. If not set, system-wide directory will be used. Note that the value of this parameter will be set as libcurl option CURLOPT_CAPATH. For libcurl versions before 7.42.0, this only has effect if libcurl was compiled to use OpenSSL. For more information see cURL web page . This parameter is used in web monitoring since Zabbix 2.4.0 and in SMTP authentication since Zabbix 3.0.0.
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 parameter is supported since Zabbix 1.8.3.
StartAlerters	no	1-100	3	Number of pre-forked instances of alerters. This parameter is supported since Zabbix 3.4.0.
StartDiscoverers	no	0-250	1	Number of pre-forked instances of discoverers. The upper limit used to be 255 before version 1.8.5.
StartEscalators	no	1-100	1	Number of pre-forked instances of escalators. This parameter is supported since Zabbix 3.0.0.
StartHTTPPollers	no	0-1000	1	Number of pre-forked instances of HTTP pollers ¹ . 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.
StartJavaPollers	no	0-1000	0	Number of pre-forked instances of Java pollers ¹ . This parameter is supported since Zabbix 2.0.0.
StartPingers	no	0-1000	1	Number of pre-forked instances of ICMP pingers ¹ . The upper limit used to be 255 before version 1.8.5.
StartPollersUnreachable	no	0-1000	1	Number of pre-forked instances of pollers for unreachable hosts (including IPMI and Java) ¹ . Since Zabbix 2.4.0, at least one poller for unreachable hosts must be running if regular, IPMI or Java pollers are started. 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 ¹ . The upper limit used to be 255 before version 1.8.5.
StartPreprocessors	no	1-1000	3	Number of pre-forked instances of preprocessing workers ¹ . The preprocessing manager process is automatically started when a preprocessor worker is started. This parameter is supported since Zabbix 3.4.0.
StartProxyPollers	no	0-250	1	Number of pre-forked instances of pollers for passive proxies ¹ . The upper limit used to be 255 before version 1.8.5. This parameter is supported since Zabbix 1.8.3.
StartSNMPTrapper	no	0-1	0	If set to 1, SNMP trapper process will be started. This parameter is supported since Zabbix 2.0.0.

Parameter	Mandatory	Range	Default	Description
StartTimers	no	1-1000	1	Number of pre-forked instances of timers. Timers process time-based trigger functions and maintenance periods. Only the first timer process handles the maintenance periods. This parameter is supported since Zabbix 2.2.0.
StartTrappers	no	0-1000	5	Number of pre-forked instances of trappers ¹ . Trappers accept incoming connections from Zabbix sender, active agents and active proxies. At least one trapper process must be running to display server availability and view queue in the frontend. The upper limit used to be 255 before version 1.8.5.
StartVMwareCollectors	no	0-250	0	Number of pre-forked vmware collector instances. This parameter is supported since Zabbix 2.2.0.
Timeout	no	1-30	3	Specifies how long we wait for agent, SNMP device or external check (in seconds).
TLSCAFile	no			Full pathname of a file containing the top-level CA(s) certificates for peer certificate verification, used for encrypted communications between Zabbix components. This parameter is supported since Zabbix 3.0.0.
TLSCertFile	no			Full pathname of a file containing the server certificate or certificate chain, used for encrypted communications between Zabbix components. This parameter is supported since Zabbix 3.0.0.
TLSCRLFile	no			Full pathname of a file containing revoked certificates. This parameter is used for encrypted communications between Zabbix components. This parameter is supported since Zabbix 3.0.0.
TLSKeyFile	no			Full pathname of a file containing the server private key, used for encrypted communications between Zabbix components. This parameter is supported since Zabbix 3.0.0.
TmpDir	no		/tmp	Temporary directory.
TrapperTimeout	no	1-300	300	Specifies how many seconds trapper may spend processing new data.
TrendCacheSize	no	128K-2G	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.
User	no		zabbix	Drop privileges to a specific, existing user on the system. Only has effect if run as 'root' and AllowRoot is disabled. This parameter is supported since Zabbix 2.4.0.
ValueCacheSize	no	0,128K-64G	8M	Size of history value cache, in bytes. Shared memory size for caching item history data requests. Setting to 0 disables value cache (not recommended). When value cache runs out of the shared memory a warning message is written to the server log every 5 minutes. This parameter is supported since Zabbix 2.2.0.
VMwareCacheSize	no	256K-2G	8M	Shared memory size for storing VMware data. A VMware internal check <code>zabbix[vmware,buffer,...]</code> can be used to monitor the VMware cache usage (see Internal checks). Note that shared memory is not allocated if there are no vmware collector instances configured to start. This parameter is supported since Zabbix 2.2.0.

Parameter	Mandatory	Range	Default	Description
VMwareFrequency	no	10-86400	60	Delay in seconds between data gathering from a single VMware service. This delay should be set to the least update interval of any VMware monitoring item. This parameter is supported since Zabbix 2.2.0.
VMwarePerfFrequency	no	10-86400	60	Delay in seconds between performance counter statistics retrieval from a single VMware service. This delay should be set to the least update interval of any VMware monitoring item that uses VMware performance counters. This parameter is supported since Zabbix 2.2.9, 2.4.4
VMwareTimeout	no	1-300	10	The maximum number of seconds vmware collector will wait for a response from VMware service (vCenter or ESX hypervisor). This parameter is supported since Zabbix 2.2.9, 2.4.4

Footnotes

(1) Note that too many data gathering processes (pollers, unreachable pollers, HTTP pollers, Java pollers, pingers, trappers, proxypollers) together with IPMI manager, SNMP trapper and preprocessing workers can exhaust the per-process file descriptor limit for the preprocessing manager. This will cause Zabbix server to stop (usually shortly after the start, but sometimes it can take more time). The configuration file should be revised or the limit should be raised to avoid this situation.

Zabbix supports configuration files only in UTF-8 encoding without [BOM](#).

Comments starting with “#” are only supported in the beginning of the line.

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Permanent link: https://www.zabbix.com/documentation/3.4/manual/appendix/config/zabbix_server

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