

4 Zabbix agent (Windows)

The parameters supported in a Zabbix agent (Windows) configuration file:

Parameter	Mandatory	Range	Default	Description
Alias	no			Sets an alias for an item key. It can be used to substitute long and complex item key with a smaller and simpler one. Multiple <i>Alias</i> parameters may be present. Multiple parameters with the same <i>Alias</i> key are not allowed. Different <i>Alias</i> keys may reference the same item key. For example, to retrieve paging file usage in percents from the server: Alias=pg_usage:perf_counter[\Paging File(_Total)\% Usage] Now shorthand key pg_usage may be used to retrieve data. Aliases can be used in <i>HostMetadataItem</i> but not in <i>HostnameItem</i> or <i>PerfCounter</i> parameters.
BufferSend	no	1-3600	5	Do not keep data longer than N seconds in buffer.
BufferSize	no	2-65535	100	Maximum number of values in a memory buffer. The agent will send all collected data to Zabbix server or proxy if the buffer is full.
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 (Currently, same as level 4. Can be set only using runtime control options.)
EnableRemoteCommands	no		0	Whether remote commands from Zabbix server are allowed. 0 - not allowed 1 - allowed
HostMetadata	no	0-255 characters		Optional parameter that defines host metadata. Host metadata is used only at host auto-registration process (active agent). If not defined, the value will be acquired from <i>HostMetadataItem</i> . An agent will issue an error and not start if the specified value is over the limit or a non-UTF-8 string. This option is supported in version 2.2.0 and higher.
HostMetadataItem	no			Optional parameter that defines a <i>Zabbix agent</i> item used for getting host metadata. This option is only used when <i>HostMetadata</i> is not defined. Supports <i>UserParameters</i> , performance counters and aliases. Supports <i>system.run[]</i> regardless of <i>EnableRemoteCommands</i> value. Host metadata is used only at host auto-registration process (active agent). During an auto-registration request an agent will log a warning message if the value returned by the specified item is over the limit of 255 characters. The value returned by the item must be a UTF-8 string otherwise it will be ignored. This option is supported in version 2.2.0 and higher.
Hostname	no		Set by <i>HostnameItem</i>	Unique, case sensitive hostname. Required for active checks and must match hostname as configured on the server. Allowed characters: alphanumeric, '.', '_', '-' and '-'. Maximum length: 64

Parameter	Mandatory	Range	Default	Description
HostnameItem	no		system.hostname	Optional parameter that defines a <i>Zabbix agent</i> item used for getting host name. This option is only used when Hostname is not defined. Does not support UserParameters, performance counters or aliases, but does support <i>system.run[]</i> regardless of <i>EnableRemoteCommands</i> value. This option is supported in version 1.8.6 and higher. See also a more detailed description .
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: /absolute/path/to/config/files/*.conf. Pattern matching is supported since Zabbix 2.4.0 . See special notes about limitations.
ListenIP	no		0.0.0.0	List of comma-delimited IP addresses that the agent should listen on. Multiple IP addresses are supported since Zabbix 1.8.3.
ListenPort	no	1024-32767	10050	Agent will listen on this port for connections from the server.
LogFile	no			Name of log file. If not set, Windows Event Log is used.
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.
LogRemoteCommands	no		0	Enable logging of executed shell commands as warnings. 0 - disabled 1 - enabled
MaxLinesPerSecond	no	1-1000	100	Maximum number of new lines the agent will send per second to Zabbix server or proxy processing 'log', 'logrt' and 'eventlog' active checks. The provided value will be overridden by the parameter 'maxlines', provided in 'log', 'logrt' or 'eventlog' item keys.
PerfCounter	no			Syntax: <parameter_name>,"<perf_counter_path>",<period> Defines new parameter <parameter_name> which is an average value for system performance counter <perf_counter_path> for the specified time period <period> (in seconds). For example, if you wish to receive average number of processor interrupts per second for last minute, you can define new parameter "interrupts" as following: PerfCounter = interrupts,"\Processor(0)\Interrupts/sec",60 Please note double quotes around performance counter path. The parameter name (interrupts) is to be used as the item key when creating an item. Samples for calculating average value will be taken every second. You may run "typeperf -qx" to get list of all performance counters available in Windows.
RefreshActiveChecks	no	60-3600	120	How often list of active checks is refreshed, in seconds. <i>Note</i> that after failing to refresh active checks the next refresh will be attempted after 60 seconds.

Parameter	Mandatory	Range	Default	Description
Server	no			List of comma delimited IP addresses (or hostnames) of Zabbix servers. Spaces are allowed since the Zabbix 2.2 version. Incoming connections will be accepted only from the hosts listed here. If IPv6 support is enabled then '127.0.0.1', '::127.0.0.1', '::ffff:127.0.0.1' are treated equally.
ServerActive	no	(*)		IP:port (or hostname:port) of Zabbix server or Zabbix proxy for active checks. Multiple comma-delimited addresses can be provided to use several independent Zabbix servers in parallel. If port is not specified, default port is used. IPv6 addresses must be enclosed in square brackets if port for that host is specified. If port is not specified, square brackets for IPv6 addresses are optional. If this parameter is not specified, active checks are disabled.
SourceIP	no			Source IP address for outgoing connections.
StartAgents	no	0-63 (*)	3	Number of pre-forked instances of zabbix_agentd that process passive checks. If set to 0, disables passive checks and the agent will not listen on any TCP port. The upper limit used to be 16 before version 1.8.5.
Timeout	no	1-30	3	Spend no more than Timeout seconds on processing
UnsafeUserParameters	no	0-1	0	Allow all characters to be passed in arguments to user-defined parameters. 0 - do not allow 1 - allow
UserParameter				User-defined parameter to monitor. There can be several user-defined parameters. Format: UserParameter=<key>,<shell command> Note that shell command must not return empty string or EOL only. Example: UserParameter=system.test,echo 1

(*) The number of active servers listed in ServerActive plus the number of pre-forked instances for passive checks specified in StartAgents must be less than 64.

In Zabbix agent 2.0.0 version configuration parameters related to active and passive checks have been changed.

See the "[See also](#)" section at the bottom of this page to read more details about these changes. Zabbix supports configuration files only in UTF-8 encoding without **BOM**.

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

See also

1. [Differences in the Zabbix agent configuration for active and passive checks starting from version 2.0.0.](#)

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