

5 Zabbix agent (Windows)

Overview

This section lists parameters supported in a Zabbix agent (Windows) configuration file (zabbix_agent.conf). Note that:

- The default values reflect daemon defaults, not the values in the shipped configuration files;
- Zabbix supports configuration files only in UTF-8 encoding without **BOM**;
- Comments starting with “#” are only supported in the beginning of the line.

Parameters

Parameter	Mandatory	Range	Default	Description
Alias	no			<p>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 allowed. Different <i>Alias</i> keys may reference the same item key. Aliases can be used in <i>HostMetadataItem</i> but not in <i>HostnameItem</i> or <i>PerfCounter</i> parameters.</p> <p>Examples:</p> <ol style="list-style-type: none"> 1. Retrieving 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. 2. Getting CPU load with default and custom parameters. Alias=cpu.load:system.cpu.load Alias=cpu.load[*]:system.cpu.load[*] This allows use cpu.load key to get CPU utilization percentage with default parameters as well as use cpu.load[percpu,avg15] to get specific data about CPU load. 3. Running multiple low-level discovery rules processing the same discovery items. Alias=vfs.fs.discovery[*]:vfs.fs.discovery Now it is possible to set up several discovery rules using vfs.fs.discovery with different parameters for each rule, e.g., vfs.fs.discovery[foo], vfs.fs.discovery[bar], etc.
AllowKey	no			<p>Allow execution of those item keys that match a pattern. Key pattern is a wildcard expression that supports “*” character to match any number of any characters. Multiple key matching rules may be defined in combination with DenyKey. The parameters are processed one by one according to their appearance order. This parameter is supported since Zabbix 5.0.0. See also: Restricting agent checks.</p>
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	<p>Specifies debug level:</p> <ul style="list-style-type: none"> 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)

Parameter	Mandatory	Range	Default	Description
DenyKey	no			Deny execution of those item keys that match a pattern. Key pattern is a wildcard expression that supports "*" character to match any number of any characters. Multiple key matching rules may be defined in combination with AllowKey. The parameters are processed one by one according to their appearance order. This parameter is supported since Zabbix 5.0.0. See also: Restricting agent checks .
EnableRemoteCommands	no		0	Whether remote commands from Zabbix server are allowed. Since Zabbix 5.0.2, this parameter is deprecated , use AllowKey=system.run[*] or DenyKey=system.run[*] instead. It is internal alias for AllowKey/DenyKey parameters depending on value: 0 - DenyKey=system.run[*] 1 - AllowKey=system.run[*]
HostInterface	no	0-255 characters		Optional parameter that defines host interface. Host interface is used at host autoregistration process. An agent will issue an error and not start if the value is over the limit of 255 characters. If not defined, value will be acquired from HostInterfaceItem. Supported since Zabbix 4.4.0.
HostInterfaceItem	no			Optional parameter that defines an item used for getting host interface. Host interface is used at host autoregistration process. During an autoregistration request an agent will log a warning message if the value returned by specified item is over limit of 255 characters. This option is only used when HostInterface is not defined. Supported since Zabbix 4.4.0.
HostMetadata	no	0-255 characters		Optional parameter that defines host metadata. Host metadata is used only at host autoregistration process (active agent). If not defined, the value will be acquired from HostMetadataItem. 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 HostMetadata is not defined. Supports UserParameters, performance counters and aliases. Supports <i>system.run[]</i> regardless of <i>EnableRemoteCommands</i> value. HostMetadataItem value is retrieved on each autoregistration attempt and is used only at host autoregistration process (active agent). During an autoregistration 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 HostnameItem	Unique, case sensitive hostname. Required for active checks and must match hostname as configured on the server. Allowed characters: alphanumeric, '.', '_', '-' and '-'. Maximum length: 128
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.

Parameter	Mandatory	Range	Default	Description
ListenPort	no	1024-32767	10050	Agent will listen on this port for connections from the server.
LogFile	yes, if LogType is set to <i>file</i> , otherwise no		C:\zabbix_agentd.log	Name of the agent 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 Windows Event Log, <i>console</i> - write log to standard output. This parameter is supported since Zabbix 3.0.0.
LogRemoteCommands	no		0	Enable logging of executed shell commands as warnings. 0 - disabled 1 - enabled
MaxLinesPerSecond	no	1-1000	20	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. <i>Note:</i> Zabbix will process 10 times more new lines than set in <i>MaxLinesPerSecond</i> to seek the required string in log items.
PerfCounter	no			Defines a new parameter <parameter_name> which is an average value for system performance counter <perf_counter_path> for the specified time period <period> (in seconds). Syntax: <parameter_name>,"<perf_counter_path>",<period> For example, if you wish to receive average number of processor interrupts per second for last minute, you can define a new parameter "interrupts" as the 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.
PerfCounterEn	no			Defines a new parameter <parameter_name> which is an average value for system performance counter <perf_counter_path> for the specified time period <period> (in seconds). Syntax: <parameter_name>,"<perf_counter_path>",<period> Compared to PerfCounter, perfcounter paths must be in English. Supported only on Windows Server 2008/Vista and above. For example, if you wish to receive average number of processor interrupts per second for last minute, you can define a new parameter "interrupts" as the following: PerfCounterEn = 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 can find the list of English strings by viewing the following registry key: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Perflib\009. This parameter is supported since Zabbix 4.0.13 and 4.2.7.
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	yes, if StartAgents is not explicitly set to 0			List of comma delimited IP addresses, optionally in CIDR notation, or hostnames of Zabbix servers. 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 and '::/0' will allow any IPv4 or IPv6 address. '0.0.0.0/0' can be used to allow any IPv4 address. Note, that "IPv4-compatible IPv6 addresses" (0000::/96 prefix) are supported but deprecated by RFC4291 . Example: Server=127.0.0.1,192.168.1.0/24,::1,2001:db8::/32,zabbix.domain Spaces are allowed.
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. Spaces are allowed. 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
TLSCAccept	yes, if TLS certificate or PSK parameters are defined (even for <i>unencrypted</i> connection), otherwise no			What incoming connections to accept. Used for a passive checks. Multiple values can be specified, separated by comma: <i>unencrypted</i> - accept connections without encryption (default) <i>psk</i> - accept connections with TLS and a pre-shared key (PSK) <i>cert</i> - accept connections with TLS and a certificate This parameter is supported since Zabbix 3.0.0.
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 agent certificate or certificate chain, used for encrypted communications with Zabbix components. This parameter is supported since Zabbix 3.0.0.
TLSCConnect	yes, if TLS certificate or PSK parameters are defined (even for <i>unencrypted</i> connection), otherwise no			How the agent should connect to Zabbix server or proxy. Used for active checks. Only one value can be specified: <i>unencrypted</i> - connect without encryption (default) <i>psk</i> - connect using TLS and a pre-shared key (PSK) <i>cert</i> - connect using TLS and a certificate 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 with Zabbix components. This parameter is supported since Zabbix 3.0.0.
TLSSKeyFile	no			Full pathname of a file containing the agent private key used for encrypted communications with Zabbix components. This parameter is supported since Zabbix 3.0.0.
TLSPSKFile	no			Full pathname of a file containing the agent pre-shared key used for encrypted communications with Zabbix components. This parameter is supported since Zabbix 3.0.0.

Parameter	Mandatory	Range	Default	Description
TLSPSKIdentity	no			Pre-shared key identity string, used for encrypted communications with Zabbix server. This parameter is supported since Zabbix 3.0.0.
TLSServerCertIssuer	no			Allowed server (proxy) certificate issuer. This parameter is supported since Zabbix 3.0.0.
TLSServerCertSubject	no			Allowed server (proxy) certificate subject. This parameter is supported since Zabbix 3.0.0.
UnsafeUserParameters	no	0-1	0	Allow all characters to be passed in arguments to user-defined parameters. 0 - do not allow 1 - allow The following characters are not allowed: \ ' " ` * ? [] { } ~ \$! & ; () < > # @ Additionally, newline characters are not allowed.
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.

See also

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

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