

3 Zabbix agent (UNIX)

The parameters supported in a Zabbix agent configuration file (*zabbix_agentd.conf*):

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 the ID of user 'zabbix': Alias=zabbix.userid:vfs.file.regexp[/etc/passwd,^zabbix:([0-9]+),,,,1] Now shorthand key zabbix.userid may be used to retrieve data. Aliases can be used in <i>HostMetadataItem</i> but not in <i>HostNameItem</i> parameters.
AllowRoot	no		0	Allow the agent to run as 'root'. If disabled and the agent is started by 'root', the agent will try to switch to user 'zabbix' instead. Has no effect if started under a regular user. 0 - do not allow 1 - allow
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> 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
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 <i>Hostname</i> is not defined. Does not support <i>UserParameters</i> 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.
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 in version 1.8.3 and higher.
ListenPort	no	1024-32767	10050	Agent will listen on this port for connections from the server.

Parameter	Mandatory	Range	Default	Description
LoadModule	no			Module to load at agent startup. Modules are used to extend functionality of the agent. 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 agent modules. Default depends on compilation options.
LogFile	no			Name of log file. If not set, syslog is used.
LogFileSize	no	0-1024	1	Maximum size of log file in MB. 0 - disable automatic log rotation. Note: 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 when processing 'log' and 'eventlog' active checks. The provided value will be overridden by the parameter 'maxlines', provided in 'log' or 'eventlog' item key. Note: Zabbix will process 4 times more new lines than set in MaxLinesPerSecond to seek the required string in log items.
PidFile	no		/tmp/zabbix_agentd.pid	Name of PID file.
RefreshActiveChecks	no	60-3600	120	How often list of active checks is refreshed, in seconds. Note that after failing to refresh active checks the next refresh will be attempted after 60 seconds.
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	0-100	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. Supported since Zabbix 1.8.2.
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 .
UserParameter	no			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,who wc -l

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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<https://www.zabbix.com/documentation/2.4/> - **Zabbix Documentation 2.4**

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