

5 Zabbix Agent (Windows)

Installation

Installation is very simple and includes 3 steps:

Step 1

Create configuration file.

Create configuration file `c:/zabbix_agentd.conf` in UTF8 encoding without BOM (it has similar syntax as the UNIX agent).

An example configuration file is available in Zabbix source archive as `misc/confzabbix_agentd.win.conf`.

Step 2

Install agent as a Windows service.

```
zabbix_agentd.exe --install
```

If you wish to use configuration file other than `c:\zabbix_agentd.conf`, you should use the following command for service installation:

```
zabbix_agentd.exe --config <your_configuration_file> --install
```

Full path to configuration file should be specified.

Step 3

Run agent.

Now you can use Control Panel to start agent's service or run:

```
zabbix_agentd.exe --start
```

Windows NT 4.0 note. `Zabbix_agentd.exe` uses PDH (Performance Data Helper) API to gather various system information, so `PDH.DLL` is needed. This DLL is not supplied with Windows NT 4.0, so you need to download and install it by yourself. Microsoft Knowledge Base article number 284996 describes this in detail and contains a download link. You can find this article at <http://support.microsoft.com/default.aspx?scid=kb;en-us;284996>

Usage

Command line syntax:

```
zabbix_agentd.exe [-Vhp] [-idsx] [-c <file>] [-t <metric>]
```

Zabbix Windows agent accepts the following command line parameters:

Options:

```
-c --config <file> Specify alternate configuration file (default is c:\zabbix_agentd.conf).  
-h --help          Display help information.  
-V --version       Display version number.  
-p --print         Print known items and exit.  
-t --test <item key> Test single item and exit.
```

Functions:

```
-i --install      Install Zabbix agent as a service.  
-d --uninstall   Uninstall Zabbix agent service.  
-s --start       Start Zabbix agent service.  
-x --stop        Stop Zabbix agent service.  
-m --multiple-agents Service name will include hostname
```

Configuration file

The configuration file (c:/zabbix_agentd.conf) contains configuration parameters for zabbix_agentd.exe. Supported parameters:

Parameter	Mandatory	Range	Default	Description
Alias	no			Sets an alias for parameter. It can be useful to substitute long and complex parameter name with a smaller and simpler one. For example, if you wish to retrieve paging file usage in percents from the server, you may use parameter "perf_counter[\Paging File(_Total)\% Usage]", or you may define an alias by adding the following line to configuration file Alias = pg_usage:perf_counter[\Paging File(_Total)\% Usage] After that you can use parameter name "pg_usage" to retrieve the same information. You can specify as many "Alias" records as you wish. Aliases cannot be used for parameters defined in "PerfCounter" configuration file records. Starting from version 1.8.6 Zabbix Agent will not start up in case incorrectly formatted Alias entry or duplicate Alias key is present in configuration file.
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.

Parameter	Mandatory	Range	Default	Description
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)
DisableActive	no		0	Disable active checks. The agent will work in passive mode listening for server.
DisablePassive	no		0	Disable passive checks. The agent will not listen on any TCP port. Only active checks will be processed. 0 - do not disable 1 - disable
EnableRemoteCommands	no		0	Whether remote commands from Zabbix server are allowed. 0 - not allowed 1 - allowed
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: 64
HostnameItem	no		system.hostname	Item used for setting Hostname if it is undefined. Does not support UserParameters, performance counters or aliases, but does support system.run[] regardless of EnableRemoteCommands value. Ignored if Hostname is set. This option is supported in version 1.8.6 and higher.
Include	no			You may include individual file in the configuration file.
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.
LogFileSize	no	0-1024	1	Maximum size of log file in MB. 0 - disable automatic log rotation.
LogFile	no			Name of log file. If not set, Windows Event Log is used.
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.

Parameter	Mandatory	Range	Default	Description
PerfCounter	no			<p>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.</p> <p>Starting from version 1.8.6 Zabbix Agent will not start up in case incorrectly formatted PerfCounter entry or duplicate PerfCounter key is present in configuration file.</p>
RefreshActiveChecks	no	60-3600	120	How often list of active checks is refreshed, in seconds.
Server	yes			<p>List of comma delimited IP addresses (or hostnames) of Zabbix servers. No spaces allowed. If ServerActive is not specified, the first entry is used for receiving list of and sending active checks. Note that hostnames must resolve hostname→IP address and IP address→hostname. If IPv6 support is enabled then '127.0.0.1', ':::127.0.0.1', ':::ffff:127.0.0.1' are treated equally.</p>
ServerActive	no			<p>List of comma delimited IP:port (or hostname:port) pairs of Zabbix servers for active checks. No spaces allowed. If ServerActive is specified, first host in the Server option is not used for active checks, only for passive checks. If the port is not specified, ServerPort port is used for that host. If ServerPort 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. This option is supported in version 1.8.13 and higher.</p>
ServerPort	no		10051	Server port for retrieving list of and sending active checks.
SourceIP	no			Source IP address for outgoing connections.
StartAgents	no	1-63 (*)	3	<p>Number of pre-forked instances of zabbix_agentd that process passive checks. The upper limit used to be 16 before version 1.8.5.</p>
Timeout	no	1-30	3	Spend no more than Timeout seconds on processing
UnsafeUserParameters	no	0-1	0	<p>Allow all characters to be passed in arguments to user-defined parameters. 0 - do not allow 1 - allow</p>

Parameter	Mandatory	Range	Default	Description
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 Starting from version 1.8.6 Zabbix Agent will not start up in case incorrectly formatted UserParameter entry or duplicate UserParameter key is present in configuration file.

(*) 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.

Starting from version 1.8.6 Zabbix agent 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.

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