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8 コマンドの実行

Zabbix uses common functionality to execute user parameters, remote commands, system.run[] items without "nowait" flag, scripts (alert, external and global) and some internal commands. The command/script is executed similarly on both UNIX and Windows platforms:

1. Zabbix (the parent process) creates a pipe for communication
2. Zabbix sets the pipe as the output for the to-be-created child process
3. Zabbix creates the child process (runs the command/script)
4. A new process group (in UNIX) or a job (in Windows) is created for the child process
5. Zabbix reads from the pipe till timeout occurs or no one is writing to the other end (ALL handles/file descriptors have been closed). Note that the child process can create more processes and exit before they exit or close the handle/file descriptor.
6. If the timeout has not been reached, Zabbix waits till the initial child process exits or timeout occurs
7. At this point it is assumed that everything is done and the whole process tree (i.e. the process group or the job) is terminated

Please note that Zabbix assumes that a command/script has done processing when the initial child process has exited AND no other process is still keeping the output handle/file descriptor open. When processing is done, ALL created processes are terminated.
Read more about user parameters, remote commands, alert scripts.
All double quotes and backslashes in the command are escaped with backslashes and the command is enclosed in double quotes.