

Agentless scheduling with the JobScheduler SSH Job

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Introduction

The SSH (Secure Shell) JITL job ([JobSchedulerSSHJob](#)) allows a JobScheduler to execute programs on another computer without a JobScheduler Agent being installed on that machine.

The JobSchedulerSSHJob allows execution on Windows and Unix systems.

- The elegance of SSH is its simplicity. It allows public/private key authentication and is well suited to executing programs for specific accounts.
 - The JobScheduler SSH JITL job allows shell scripts to return values to JobScheduler orders as parameters.
 - See [How To - Usage of the SSH Job \(JobSchedulerSSHJob\) with JCraft's JSch](#).
- One of the restrictions of standard SSH connections is that there is limited control of child processes on the remote host.
 - If a number of child processes are spawned by a program during an SSH session and that session gets killed then these child processes would normally continue running.
 - The JobScheduler provides a method for monitoring SSH connections that allows both remote sessions and local JobScheduler tasks to be terminated.
 - See [How To - SSH Session Management](#) for more information.
- The JobScheduler provides a means of controlling the behavior of standard error output and exit codes of shell commands using the SSH JITL Job.
 - See [Job SchedulerSSHJob - Handling StdErr and ExitCode](#) for more information.

Feature Summary

SSH Remote Host Connections

- Connects to a remote host without the need to install a local SSH client
- Processes on the remote host:
 - commands
 - scripts
 - transfer of local scripts to the remote host and start execution of these scripts on the remote host
- Publishes environment variables
- Publishes return values for parameters to be used in follow-on jobs in the job chain.
- Provides support for operating system specific commands

SSH Session Management

- Provides control over remote sessions
- Rules the termination of remote child processes and parent processes with *term* or *kill*

References

- See [Example for the JobScheduler SSH Job](#)
- See [Limitations when using SSH jobs for Windows](#)