#### **NAME**

spawn – Postfix external command spawner

### **SYNOPSIS**

spawn [generic Postfix daemon options] command\_attributes...

## DESCRIPTION

The **spawn**(8) daemon provides the Postfix equivalent of **inetd**. It listens on a port as specified in the Postfix **master.cf** file and spawns an external command whenever a connection is established. The connection can be made over local IPC (such as UNIX–domain sockets) or over non–local IPC (such as TCP sockets). The command's standard input, output and error streams are connected directly to the communication endpoint.

This daemon expects to be run from the **master**(8) process manager.

### COMMAND ATTRIBUTE SYNTAX

The external command attributes are given in the **master.cf** file at the end of a service definition. The syntax is as follows:

user=username (required)

**user**=*username*:*groupname* 

The external command is executed with the rights of the specified *username*. The software refuses to execute commands with root privileges, or with the privileges of the mail system owner. If *groupname* is specified, the corresponding group ID is used instead of the group ID of *username*.

### argv=command... (required)

The command to be executed. This must be specified as the last command attribute. The command is executed directly, i.e. without interpretation of shell meta characters by a shell command interpreter.

### **BUGS**

In order to enforce standard Postfix process resource controls, the **spawn**(8) daemon runs only one external command at a time. As such, it presents a noticeable overhead by wasting precious process resources. The **spawn**(8) daemon is expected to be replaced by a more structural solution.

# **DIAGNOSTICS**

The **spawn**(8) daemon reports abnormal child exits. Problems are logged to **syslogd**(8).

#### **SECURITY**

This program needs root privilege in order to execute external commands as the specified user. It is therefore security sensitive. However the **spawn**(8) daemon does not talk to the external command and thus is not vulnerable to data—driven attacks.

### **CONFIGURATION PARAMETERS**

Changes to **main.cf** are picked up automatically as **spawn**(8) processes run for only a limited amount of time. Use the command "**postfix reload**" to speed up a change.

The text below provides only a parameter summary. See **postconf**(5) for more details including examples.

In the text below, *transport* is the first field of the entry in the **master.cf** file.

### RESOURCE AND RATE CONTROL

transport\_time\_limit (\$command\_time\_limit)

The amount of time the command is allowed to run before it is terminated.

Postfix 2.4 and later support a suffix that specifies the time unit: s (seconds), m (minutes), h (hours), d (days), w (weeks). The default time unit is seconds.

# **MISCELLANEOUS**

## config\_directory (see 'postconf -d' output)

The default location of the Postfi x main.cf and master.cf confi guration fi les.

### daemon timeout (18000s)

How much time a Postfi x daemon process may take to handle a request before it is terminated by a built–in watchdog timer.

# export\_environment (see 'postconf -d' output)

The list of environment variables that a Postfi x process will export to non-Postfi x processes.

# ipc\_timeout (3600s)

The time limit for sending or receiving information over an internal communication channel.

### mail owner (postfix)

The UNIX system account that owns the Postfi x queue and most Postfi x daemon processes.

### max\_idle (100s)

The maximum amount of time that an idle Postfi x daemon process waits for an incoming connection before terminating voluntarily.

#### max use (100)

The maximal number of incoming connections that a Postfi x daemon process will service before terminating voluntarily.

## process\_id (read-only)

The process ID of a Postfi x command or daemon process.

### process\_name (read-only)

The process name of a Postfi x command or daemon process.

### queue directory (see 'postconf -d' output)

The location of the Postfi x top-level queue directory.

### syslog\_facility (mail)

The syslog facility of Postfi x logging.

## syslog\_name (see 'postconf -d' output)

The mail system name that is prepended to the process name in syslog records, so that "smtpd" becomes, for example, "postfi x/smtpd".

### **SEE ALSO**

postconf(5), confi guration parameters master(8), process manager syslogd(8), system logging

# LICENSE

The Secure Mailer license must be distributed with this software.

## **AUTHOR(S)**

Wietse Venema IBM T.J. Watson Research P.O. Box 704 Yorktown Heights, NY 10598, USA