

**NAME**

**pam\_exec** - Exec PAM module

**SYNOPSIS**

*[service-name] module-type control-flag pam\_exec [arguments]*

**DESCRIPTION**

The exec service module for PAM executes the program designated by its first argument if no options are specified, with its remaining arguments as command-line arguments. If options are specified, the program and its arguments follow the last option or -- if the program name conflicts with an option name.

The following options may be passed before the program and its arguments:

**capture\_stderr**

Capture text printed by the program to its standard error stream and pass it to the conversation function as error messages. No attempt is made at buffering the text, so results may vary.

**capture\_stdout**

Capture text printed by the program to its standard output stream and pass it to the conversation function as informational messages. No attempt is made at buffering the text, so results may vary.

**debug** Ignored for compatibility reasons.

**no\_warn**

Ignored for compatibility reasons.

**return\_prog\_exit\_status**

Use the program exit status as the return code of the `pam_sm_*` function. It must be a valid return value for this function.

**expose\_authtok**

Write the authentication token to the program's standard input stream, followed by a NUL character. Ignored for `pam_sm_setcred()`.

**use\_first\_pass**

If **expose\_authtok** was specified, do not prompt for an authentication token if one is not already available.

-- Stop options parsing; program and its arguments follow.

The child's environment is set to the current PAM environment list, as returned by `pam_getenvlist(3)`. In addition, the following PAM items are exported as environment variables: `PAM_RHOST`, `PAM_RUSER`, `PAM_SERVICE`, `PAM_SM_FUNC`, `PAM_TTY` and `PAM_USER`.

The `PAM_SM_FUNC` variable contains the name of the PAM service module function being called. It may be:

- `pam_sm_acct_mgmt`
- `pam_sm_authenticate`
- `pam_sm_chauthtok`
- `pam_sm_close_session`
- `pam_sm_open_session`
- `pam_sm_setcred`

If `return_prog_exit_status` is not set (default), the `PAM_SM_FUNC` function returns `PAM_SUCCESS` if the program exit status is 0, `PAM_PERM_DENIED` otherwise.

If `return_prog_exit_status` is set, the program exit status is used. It should be `PAM_SUCCESS` or one of the error codes allowed by the calling `PAM_SM_FUNC` function. The valid codes are documented in each function man page. If the exit status is not a valid return code, `PAM_SERVICE_ERR` is returned. Each valid codes numerical value is available as an environment variable (eg. `PAM_SUCESS`, `PAM_USER_UNKNOWN`, etc). This is useful in shell scripts for instance.

## SEE ALSO

`pam_get_item(3)`, `pam.conf(5)`, `pam(3)`, `pam_sm_acct_mgmt(3)`, `pam_sm_authenticate(3)`, `pam_sm_chauthtok(3)`, `pam_sm_close_session(3)`, `pam_sm_open_session(3)`, `pam_sm_setcred(3)`

## AUTHORS

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