Red Hat Enterprise Linux Release 9.2 Manual Pages on 'process-keyring.7' command

$ man process-keyring.7

PROCESS-KEYRING(7) Linux Programmer's Manual PROCESS-KEYRING(7)

NAME

process-keyring - per-process shared keyring

DESCRIPTION

The process keyring is a keyring used to anchor keys on behalf of a
process. It is created only when a process requests it. The process
keyring has the name (description) _pid.

A special serial number value, KEY_SPEC_PROCESS_KEYRING, is defined
that can be used in lieu of the actual serial number of the calling
process's process keyring.

From the keyctl(1) utility, '@p' can be used instead of a numeric key
ID in much the same way, but since keyctl(1) is a program run after
forking, this is of no utility.

A thread created using the clone(2) CLONE_THREAD flag has the same
process keyring as the caller of clone(2). When a new process is cre?
ated using fork() it initially has no process keyring. A process's
process keyring is cleared on execve(2). The process keyring is de?
stroyed when the last thread that refers to it terminates.

If a process doesn't have a process keyring when it is accessed, then
the process keyring will be created if the keyring is to be modified;
otherwise, the error ENOKEY results.

SEE ALSO

keyctl(1), keyctl(3), keyrings(7), persistent-keyring(7), session-keyring(7), thread-keyring(7), user-keyring(7),

user-session-keyring(7)

COLOPHON

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