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

## \$ man session-keyring.7

SESSION-KEYRING(7)

Linux Programmer's Manual

SESSION-KEYRING(7)

NAME

session-keyring - session shared process keyring

## **DESCRIPTION**

The session keyring is a keyring used to anchor keys on behalf of a process. It is typically created by pam\_keyinit(8) when a user logs in and a link will be added that refers to the user-keyring(7). Option? ally, PAM may revoke the session keyring on logout. (In typical con? figurations, PAM does do this revocation.) The session keyring has the name (description) \_ses.

A special serial number value, KEY\_SPEC\_SESSION\_KEYRING, is defined that can be used in lieu of the actual serial number of the calling process's session keyring.

From the keyctl(1) utility, '@s' can be used instead of a numeric key ID in much the same way.

A process's session keyring is inherited across clone(2), fork(2), and vfork(2). The session keyring is preserved across execve(2), even when the executable is set-user-ID or set-group-ID or has capabilities. The session keyring is destroyed when the last process that refers to it exits.

If a process doesn't have a session keyring when it is accessed, then, under certain circumstances, the user-session-keyring(7) will be at? tached as the session keyring and under others a new session keyring

will be created. (See user-session-keyring(7) for further details.) Special operations The keyutils library provides the following special operations for ma? nipulating session keyrings: keyctl\_join\_session\_keyring(3) This operation allows the caller to change the session keyring that it subscribes to. The caller can join an existing keyring with a specified name (description), create a new keyring with a given name, or ask the kernel to create a new "anonymous" ses? sion keyring with the name "\_ses". (This function is an inter? face to the keyctl(2) KEYCTL\_JOIN\_SESSION\_KEYRING operation.) keyctl\_session\_to\_parent(3) This operation allows the caller to make the parent process's session keyring to the same as its own. For this to succeed, the parent process must have identical security attributes and must be single threaded. (This function is an interface to the keyctl(2) KEYCTL\_SESSION\_TO\_PARENT operation.) These operations are also exposed through the keyctl(1) utility as: keyctl session keyctl session - [cprog> <arg1> <arg2> ...] keyctl session <name> [<prog> <arg1> <arg2> ...] and: keyctl new session SEE ALSO keyctl(1), keyctl(3), keyctl\_join\_session\_keyring(3), keyctl session to parent(3), keyrings(7), persistent-keyring(7), process-keyring(7), thread-keyring(7), user-keyring(7), user-session-keyring(7), pam\_keyinit(8) **COLOPHON** This page is part of release 5.10 of the Linux man-pages project. A description of the project, information about reporting bugs, and the

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