NAME

matchpathcon, matchpathcon_index − get the default SELinux security context for the specified path from the file contexts configuration

SYNOPSIS

#include <selinux/selinux.h>

int matchpathcon_init(const char * *path* **);**

int matchpathcon_init_prefix(const char * *path* **, const char *** *pr efix* **);**

int matchpathcon_fini(void);

int matchpathcon(const char * *path* **, mode_t** *mode* **, char **** *con* **);**

int matchpathcon_index(const char * *name* **, mode_t** *mode* **, char **** *con* **);**

DESCRIPTION

This family of functions is deprecated. For new code, please use **selabel_open**(3) with the **SELABEL_CTX_FILE** backend in place of **matchpathcon_init**(), use **selabel_close**(3) in place of **matchpathcon_fini**(), and use **selabel_lookup**(3) in place of **matchpathcon**().

The remaining description below is for the legacy interface.

matchpathcon_init() loads the file contexts configuration specified by *path* into memory for use by subsequent **matchpathcon**() calls. If *path* is NULL, then the acti ve file contexts configuration is loaded by default, i.e. the path returned by **selinux_file_context_path**(3). Unless the**MA TCHPATHCON_BASEONLY** flag has been set via **set_matchpathcon_flags**(3), files with the same path prefix but a **.homedirs** and **.local** suffix are also looked up and loaded if present. These files provide dynamically generated entries for user home directories and for local customizations.

matchpathcon_init_prefix() is the same as **matchpathcon_init**() but only loads entries with regular expressions whose first pathname component is a prefix of *prefix* , e.g. pass "/dev" if you only intend to call **matchpathcon**() with pathnames beginning with /dev. However, this optimization is no longer necessary due to the use of *file_conte xts.bin* files with precompiled regular expressions, so use of this interface is deprecated.

matchpathcon_fini() frees the memory allocated by a prior call to **matchpathcon_init.**() This function can be used to free and reset the internal state between multiple **matchpathcon_init**() calls, or to free memory when finished using **matchpathcon**().

matchpathcon() matches the specified *pathname* , after transformation via **realpath**(3) excepting any final symbolic link component if S_IFLNK was specified as the *mode*, and *mode* against the *file conte xts* configuration and sets the security context *con* to refer to the resulting context. The caller must free the returned security context *con* using **freecon**(3) when finished using it. *mode* can be 0 to disable mode matching, but should be provided whenever possible, as it may affect the matching. Only the file format bits (i.e. the file type) of the *mode* are used. If **matchpathcon_init**() has not already been called, then this function will call it upon its first invocation with a NULL *path*, def aulting to the active file contexts configuration.

matchpathcon_index() is the same as **matchpathcon**() but returns a specification index that can later be used in a **matchpathcon_filespec_add**(3) call.

RETURN VALUE

Returns zero on success or −1 otherwise.

SEE ALSO

selinux(8), **set_matchpathcon_flags**(3), **set_matchpathcon_invalidcon**(3), **set_matchpathcon_printf**(3), **matchpathcon_filespec_add**(3), **matchpathcon_checkmatches**(3), **freecon**(3), **setfilecon**(3), **setfscreatecon**(3)