NAME

 $blacklist_open, blacklist_close, blacklist_r, blacklist, blacklist_sa, blacklist_sa_r - Blacklistd notification library$

LIBRARY

library "libblacklist"

SYNOPSIS

```
#include <blacklist.h>
```

```
struct blacklist *
```

blacklist_open(void);

void

blacklist_close(struct blacklist *cookie);

int

blacklist(int action, int fd, const char *msg);

int

blacklist_r(*struct blacklist *cookie*, *int action*, *int fd*, *const char *msg*);

int

blacklist_sa(int action, int fd, const struct sockaddr *sa, socklen_t salen, const char *msg);

int

blacklist_sa_r(struct blacklist *cookie, int action, int fd, const struct sockaddr *sa, socklen_t salen, const char *msg);

DESCRIPTION

These functions can be used by daemons to notify blacklistd(8) about successful and failed remote connections so that blacklistd can block or release port access to prevent Denial of Service attacks.

The function **blacklist_open**() creates the necessary state to communicate with blacklistd(8) and returns a pointer to it, or NULL on failure.

The **blacklist_close()** function frees all memory and resources used.

The **blacklist**() function sends a message to blacklistd(8), with an integer *action* argument specifying the type of notification, a file descriptor *fd* specifying the accepted file descriptor connected to the client,

and an optional message in the msg argument.

The action parameter can take these values:

BLACKLIST_AUTH_FAIL There was an unsuccessful authentication attempt.

BLACKLIST AUTH OK A user successfully authenticated.

BLACKLIST_ABUSIVE_BEHAVIOR The sending daemon has detected abusive behavior from the

remote system. The remote address should be blocked as soon

as possible.

BLACKLIST_BAD_USER The sending daemon has determined the username presented

for authentication is invalid. The blacklistd(8) daemon compares the username to a configured list of forbidden usernames and blocks the address immediately if a forbidden username matches. (The *BLACKLIST_BAD_USER* support

is not currently available.)

The **blacklist_r**() function is more efficient because it keeps the blacklist state around.

The **blacklist_sa()** and **blacklist_sa_r()** functions can be used with unconnected sockets, where getpeername(2) will not work, the server will pass the peer name in the message.

In all cases the file descriptor passed in the fd argument must be pointing to a valid socket so that blacklistd(8) can establish ownership of the local endpoint using getsockname(2).

By default, syslogd(8) is used for message logging. The internal **bl_create**() function can be used to create the required internal state and specify a custom logging function.

RETURN VALUES

The function **blacklist_open()** returns a cookie on success and NULL on failure setting errno to an appropriate value.

The functions **blacklist**(), **blacklist_sa**(), and **blacklist_sa_r**() return 0 on success and -1 on failure setting errno to an appropriate value.

SEE ALSO

blacklistd.conf(5), blacklistd(8)

AUTHORS

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