NAME

setnetgrent, endnetgrent, getnetgrent, getnetgrent_r, innetgr - handle network group entries

SYNOPSIS

#include <netdb.h>

int setnetgrent(const char *_netgroup_**);**

void endnetgrent(void);

int getnetgrent(char **_host_**, char ****_user_**, char ****_domain_**);**

int getnetgrent_r(char **_host_**, char ****_user_**,
char ****_domain_**, char ***_buf_**, size_t** _buflen_**);**

int innetgr(const char *_netgroup_**, const char ***_host_**,
const char ***_user_**, const char ***_domain_**);**

Feature Test Macro Requirements for glibc (see feature_test_macros(7)):

setnetgrent(), **endnetgrent**(), **getnetgrent**(), **getnetgrent_r**(), **innetgr**(): _BSD_SOURCE ||
_SVID_SOURCE

DESCRIPTION

The _netgroup_ is a SunOS invention. A netgroup database is a list of string triples (_hostname_,
username, _domainname_) or other netgroup names. Any of the elements in a triple can be empty,
which means that anything matches. The functions described here allow access to the netgroup
databases. The file _/etc/nsswitch.conf_ defines what database is searched.

The **setnetgrent**() call defines the netgroup that will be searched by subsequent **getnetgrent**()
calls. The **getnetgrent**() function retrieves the next netgroup entry, and returns pointers in _host_,
user, _domain_. A null pointer means that the corresponding entry matches any string. The point-
ers are valid only as long as there is no call to other netgroup-related functions. To avoid this
problem you can use the GNU function **getnetgrent_r**() that stores the strings in the supplied
buffer. To free all allocated buffers use **endnetgrent**().

In most cases you want to check only if the triplet (_hostname_, _username_, _domainname_) is a mem-
ber of a netgroup. The function **innetgr**() can be used for this without calling the above three
functions. Again, a null pointer is a wildcard and matches any string. The function is thread-
safe.

RETURN VALUE

These functions return 1 on success and 0 for failure.

FILES

/etc/netgroup
/etc/nsswitch.conf

CONFORMING TO

These functions are not in POSIX.1-2001, but **setnetgrent**(), **endnetgrent**(), **getnetgrent**(),
and **innetgr**() are available on most UNIX systems. **getnetgrent_r**() is not widely available on
other systems.

NOTES

In the BSD implementation, **setnetgrent**() returns void.

SEE ALSO

sethostent(3), setprotoent(3), setservent(3)

COLOPHON

This page is part of release 3.74 of the Linux _man-pages_ project. A description of the project,
information about reporting bugs, and the latest version of this page, can be found at
http://www.kernel.org/doc/man-pages/.