



Rocky Enterprise Linux 9.2 Manual Pages on command 'getpw.3'

C:\>man getpw.3

GETPW(3) Linux Programmer's Manual GETPW(3)

NAME

getpw - reconstruct password line entry

SYNOPSIS

```
#define _GNU_SOURCE            /* See feature_test_macros(7) */  
  
#include <sys/types.h>  
  
#include <pwd.h>  
  
int getpw(uid_t uid, char *buf);
```

DESCRIPTION

The getpw() function reconstructs the password line entry for the given user ID uid in the buffer buf. The returned buffer contains a line of format

```
name:passwd:uid:gid:gecos:dir:shell
```

The passwd structure is defined in <pwd.h> as follows:

```
struct passwd {  
    char *pw_name;     /* username */  
    char *pw_passwd;   /* user password */  
    uid_t pw_uid;     /* user ID */  
    gid_t pw_gid;     /* group ID */  
    char *pw_gecos;   /* user information */  
    char *pw_dir;     /* home directory */  
    char *pw_shell;   /* shell program */
```

```
};
```

For more information about the fields of this structure, see `passwd(5)`.

RETURN VALUE

The `getpw()` function returns 0 on success; on error, it returns -1, and `errno` is set to indicate the error.

If `uid` is not found in the password database, `getpw()` returns -1, sets `errno` to 0, and leaves `buf` unchanged.

ERRORS

0 or `ENOENT`

No user corresponding to `uid`.

`EINVAL` `buf` is `NULL`.

`ENOMEM` Insufficient memory to allocate `passwd` structure.

FILES

`/etc/passwd`

password database file

ATTRIBUTES

For an explanation of the terms used in this section, see `attributes(7)`.

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?Interface ? Attribute ? Value ?

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?`getpw()` ? Thread safety ? MT-Safe locale ?

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CONFORMING TO

SVr2.

BUGS

The `getpw()` function is dangerous as it may overflow the provided buffer `buf`. It is obsoleted by `getpwuid(3)`.

SEE ALSO

`endpwent(3)`, `fgetpwent(3)`, `getpwent(3)`, `getpwnam(3)`, `getpwuid(3)`, `putpwent(3)`, `setpwent(3)`, `passwd(5)`

COLOPHON

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