NAME

pam_listfile - deny or allow services based on an arbitrary file

SYNOPSIS

pam_listfile.so item=[tty|user|rhost|ruser|group|shell] sense=[allow|deny] file=/path/filename onerr=[succeed|fail] [apply=[user|@group]] [quiet]

DESCRIPTION

pam listfile is a PAM module which provides a way to deny or allow services based on an arbitrary file.

The module gets the **item** of the type specified — *user* specifies the username, *PAM_USER*; tty specifies the name of the terminal over which the request has been made, *PAM_TTY*; rhost specifies the name of the remote host (if any) from which the request was made, *PAM_RHOST*; and ruser specifies the name of the remote user (if available) who made the request, *PAM_RUSER* — and looks for an instance of that item in the **file**=*filename*. filename contains one line per item listed. If the item is found, then if **sense**=*allow*, *PAM_SUCCESS* is returned, causing the authorization request to succeed; else if **sense**=*deny*, *PAM_AUTH_ERR* is returned, causing the authorization request to fail.

If an error is encountered (for instance, if filename does not exist, or a poorly–constructed argument is encountered), then if *onerr=succeed*, *PAM_SUCCESS* is returned, otherwise if *onerr=fail*, *PAM_AUTH_ERR* or *PAM_SERVICE_ERR* (as appropriate) will be returned.

An additional argument, **apply=**, can be used to restrict the application of the above to a specific user (**apply=***username*) or a given group (**apply=**@ *groupname*). This added restriction is only meaningful when used with the *tty*, *rhost* and *shell* items.

Besides this last one, all arguments should be specified; do not count on any default behavior.

No credentials are awarded by this module.

OPTIONS

item=[tty|user|rhost|ruser|group|shell]

What is listed in the file and should be checked for.

sense=[allow|deny]

Action to take if found in file, if the item is NOT found in the file, then the opposite action is requested.

file=/path/filename

File containing one item per line. The file needs to be a plain file and not world writable.

onerr=[succeed|fail]

What to do if something weird happens like being unable to open the file.

apply=[user|@group]

Restrict the user class for which the restriction apply. Note that with **item=[user|ruser|group]** this does not make sense, but for **item=[tty|rhost|shell]** it have a meaning.

quiet

Do not treat service refusals or missing list files as errors that need to be logged.

MODULE TYPES PROVIDED

All module types (auth, account, password and session) are provided.

RETURN VALUES

PAM_AUTH_ERR

Authentication failure.

PAM BUF ERR

Memory buffer error.

PAM_IGNORE

The rule does not apply to the apply option.

PAM_SERVICE_ERR

Error in service module.

```
PAM_SUCCESS Success.
```

EXAMPLES

Classic 'ftpusers' authentication can be implemented with this entry in /etc/pam.d/ftpd:

```
#
# deny ftp-access to users listed in the /etc/ftpusers file
#
auth required pam_listfile.so \
    onerr=succeed item=user sense=deny file=/etc/ftpusers
```

Note, users listed in /etc/ftpusers file are (counterintuitively) not allowed access to the ftp service.

To allow login access only for certain users, you can use a /etc/pam.d/login entry like this:

```
#
# permit login to users listed in /etc/loginusers
#
auth required pam_listfile.so \
    onerr=fail item=user sense=allow file=/etc/loginusers
```

For this example to work, all users who are allowed to use the login service should be listed in the file /etc/loginusers. Unless you are explicitly trying to lock out root, make sure that when you do this, you leave a way for root to log in, either by listing root in /etc/loginusers, or by listing a user who is able to *su* to the root account.

SEE ALSO

```
pam.conf(5), pam.d(5), pam(7)
```

AUTHOR

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