

**NAME**

access.conf - the login access control table file

**DESCRIPTION**

The `/etc/security/access.conf` file specifies *(user/group, host)*, *(user/group, network/netmask)* or *(user/group, tty)* combinations for which a login will be either accepted or refused.

When someone logs in, the file `access.conf` is scanned for the first entry that matches the *(user/group, host)* or *(user/group, network/netmask)* combination, or, in case of non-networked logins, the first entry that matches the *(user/group, tty)* combination. The permissions field of that table entry determines whether the login will be accepted or refused.

Each line of the login access control table has three fields separated by a `:` character (colon):

*permission:users/groups:origins*

The first field, the *permission* field, can be either a `+` character (plus) for access granted or a `-` character (minus) for access denied.

The second field, the *users/group* field, should be a list of one or more login names, group names, or *ALL* (which always matches). To differentiate user entries from group entries, group entries should be written with brackets, e.g. *(group)*.

The third field, the *origins* field, should be a list of one or more tty names (for non-networked logins), host names, domain names (begin with `.`), host addresses, internet network numbers (end with `.`), internet network addresses with network mask (where network mask can be a decimal number or an internet address also), *ALL* (which always matches) or *LOCAL*. *LOCAL* keyword matches if and only if the *PAM\_RHOST* is not set and `<origin>` field is thus set from *PAM\_TTY* or *PAM\_SERVICE*. If supported by the system you can use *@netgroupname* in host or user patterns. The *@@netgroupname* syntax is supported in the user pattern only and it makes the local system hostname to be passed to the `netgroup` match call in addition to the user name. This might not work correctly on some `libc` implementations causing the match to always fail.

The *EXCEPT* operator makes it possible to write very compact rules.

If the `nodefgroup` is not set, the group file is searched when a name does not match that of the logged-in user. Only groups are matched in which users are explicitly listed. However the PAM module does not look at the primary group id of a user.

The `#` character at start of line (no space at front) can be used to mark this line as a comment line.

**EXAMPLES**

These are some example lines which might be specified in `/etc/security/access.conf`.

User *root* should be allowed to get access via *cron*, X11 terminal `:0, tty1, ..., tty5, tty6`.

```
+ : root : crond :0 tty1 tty2 tty3 tty4 tty5 tty6
```

User *root* should be allowed to get access from hosts which own the IPv4 addresses. This does not mean that the connection have to be a IPv4 one, a IPv6 connection from a host with one of this IPv4 addresses does work, too.

```
+ : root : 192.168.200.1 192.168.200.4 192.168.200.9
```

```
+ : root : 127.0.0.1
```

User *root* should get access from network `192.168.201.` where the term will be evaluated by string matching. But it might be better to use `network/netmask` instead. The same meaning of `192.168.201.` is `192.168.201.0/24` or `192.168.201.0/255.255.255.0`.

```
+ : root : 192.168.201.
```

User *root* should be able to have access from hosts `foo1.bar.org` and `foo2.bar.org` (uses string matching also).

```
+ : root : foo1.bar.org foo2.bar.org
```

User *root* should be able to have access from domain *foo.bar.org* (uses string matching also).

```
+ : root : .foo.bar.org
```

User *root* should be denied to get access from all other sources.

```
- : root : ALL
```

User *foo* and members of netgroup *admins* should be allowed to get access from all sources. This will only work if netgroup service is available.

```
+ : @admins foo : ALL
```

User *john* and *foo* should get access from IPv6 host address.

```
+ : john foo : 2001:db8:0:101::1
```

User *john* should get access from IPv6 net/mask.

```
+ : john : 2001:db8:0:101::/64
```

Disallow console logins to all but the shutdown, sync and all other accounts, which are a member of the wheel group.

```
-.ALL EXCEPT (wheel) shutdown sync:LOCAL
```

All other users should be denied to get access from all sources.

```
- : ALL : ALL
```

## SEE ALSO

[pam\\_access\(8\)](#), [pam.d\(5\)](#), [pam\(7\)](#)

## AUTHORS

Original [login.access\(5\)](#) manual was provided by Guido van Rooij which was renamed to [access.conf\(5\)](#) to reflect relation to default config file.

Network address / netmask description and example text was introduced by Mike Becher <mike.becher@lrz-muenchen.de>.