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### ***Rocky Enterprise Linux 9.2 Manual Pages on command 'access.conf.5'***

**\$ man access.conf.5**

ACCESS.CONF(5)                      Linux-PAM Manual                      ACCESS.CONF(5)

NAME

access.conf - the login access control table file

DESCRIPTION

The /etc/security/access.conf file specifies (user/group, host), (user/group, network/netmask), (user/group, tty), (user/group, X-\$DISPLAY-value), or (user/group, pam-service-name) 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, or in the case of non-networked logins without a tty, the first entry that matches the (user/group, X-\$DISPLAY-value) or (user/group, pam-service-name/) 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), X \$DISPLAY values or PAM service names (for non-networked logins without a tty), 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. The LOCAL keyword matches if and only if pam\_get\_item(3), when called with an item\_type of PAM\_RHOST, returns NULL or an empty string (and therefore the origins field is compared against the return value of pam\_get\_item(3) called with an item\_type of PAM\_TTY or, absent that, 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 nodegroup 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
```

Members of group wheel should be allowed to get access from all sources.

```
+: (wheel):ALL
```

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
```

## NOTES

The default separators of list items in a field are space, ',', and tabulator characters.

Thus conveniently if spaces are put at the beginning and the end of the fields they are ignored. However if the list separator is changed with the listsep option, the spaces will become part of the actual item and the line will be most probably ignored. For this reason, it is not recommended to put spaces around the ':' characters.

## 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>.

Linux-PAM Manual

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