



Rocky Enterprise Linux 9.2 Manual Pages on command 'hosts_options.5'

C:\>man hosts_options.5

HOSTS_OPTIONS(5) File Formats Manual HOSTS_OPTIONS(5)

NAME

hosts_options - host access control language extensions

DESCRIPTION

This document describes extensions to the language described in the hosts_access(5) document.

The extensible language uses the following format:

```
daemon_list : client_list : option : option ...
```

The first two fields are described in the hosts_access(5) manual page. The remainder of the rules is a list of zero or more options. Any ":" characters within options should be protected with a backslash.

An option is of the form "keyword" or "keyword value". Options are processed in the specified order. Some options are subjected to %<letter> substitutions. For the sake of backwards compatibility with earlier versions, an "=" is permitted between keyword and value.

LOGGING

severity mail.info

severity notice

Change the severity level at which the event will be logged. Facility names (such as mail) are optional, and are not supported on systems with older syslog implementations. The severity option can be used to emphasize or to ignore specific events.

ACCESS CONTROL

allow

deny Grant (deny) service. These options must appear at the end of a rule.

The allow and deny keywords make it possible to keep all access control rules within a single file, for example in the hosts.allow file.

To permit access from specific hosts only:

```
ALL: .friendly.domain: ALLOW
```

```
ALL: ALL: DENY
```

To permit access from all hosts except a few trouble makers:

```
ALL: .bad.domain: DENY
```

```
ALL: ALL: ALLOW
```

Notice the leading dot on the domain name patterns.

RUNNING OTHER COMMANDS

aclexec shell_command

Execute, in a child process, the specified shell command, after performing the %<letter> expansions described in the hosts_access(5) manual page. The command is executed with stdin, stdout and stderr connected to the null device, so that it won't mess up the conversation with the client host. Example:

```
smtp : ALL : aclexec checkdnsbl %a
```

executes, in a background child process, the shell command "checkdnsbl %a" after replacing %a by the address of the remote host.

The connection will be allowed or refused depending on whether the command returns a true or false exit status.

spawn shell_command

Execute, in a child process, the specified shell command, after performing the %<letter> expansions described in the hosts_access(5) manual page. The command is executed with stdin, stdout and stderr connected to the null device, so that it won't mess up the conversation with the client host. Example:

```
spawn (/usr/sbin/safe_finger -l %@%h | /usr/bin/mail root) &
```

executes, in a background child process, the shell command "safe_finger -l %@%h | mail root" after replacing %h by the name or address of the remote

host.

The `example` uses the `"safe_finger"` command instead of the regular `"finger"` command, to limit possible damage from data sent by the `finger` server. The `"safe_finger"` command is part of the daemon wrapper package; it is a wrapper around the regular `finger` command that filters the data sent by the remote host.

twist shell_command

Replace the current process by an instance of the specified shell command, after performing the `%<letter>` expansions described in the `hosts_access(5)` manual page. `Stdin`, `stdout` and `stderr` are connected to the client process.

This option must appear at the end of a rule.

To send a customized bounce message to the client instead of running the real `ftp` daemon:

```
in.ftpd : ... : twist /bin/echo 421 Some bounce message
```

For an alternative way to talk to client processes, see the `banners` option below.

To run `/some/other/in.telnetd` without polluting its command-line array or its process environment:

```
in.telnetd : ... : twist PATH=/some/other; exec in.telnetd
```

Warning: in case of UDP services, do not twist to commands that use the standard I/O or the `read(2)/write(2)` routines to communicate with the client process; UDP requires other I/O primitives.

NETWORK OPTIONS

keepalive

Causes the server to periodically send a message to the client. The connection is considered broken when the client does not respond. The `keepalive` option can be useful when users turn off their machine while it is still connected to a server. The `keepalive` option is not useful for datagram (UDP) services.

linger number_of_seconds

Specifies how long the kernel will try to deliver not-yet delivered data after the server process closes a connection.

USERNAME LOOKUP

rfc931 [timeout_in_seconds]

Look up the client user name with the RFC 931 (TAP, IDENT, RFC 1413) protocol. This option is silently ignored in case of services based on transports other than TCP. It requires that the client system runs an RFC 931 (IDENT, etc.) -compliant daemon, and may cause noticeable delays with connections from non-UNIX clients. The timeout period is optional. If no timeout is specified a compile-time defined default value is taken.

MISCELLANEOUS

banners /some/directory

Look for a file in `/some/directory/` with the same name as the daemon process (for example `in.telnetd` for the telnet service), and copy its contents to the client. Newline characters are replaced by carriage-return newlines, and `%<letter>` sequences are expanded (see the `hosts_access(5)` manual page).

The `tcp wrappers` source code distribution provides a sample makefile (`Banners.Makefile`) for convenient banner maintenance.

Warning: banners are supported for connection-oriented (TCP) network services only.

nice [number]

Change the nice value of the process (default 10). Specify a positive value to spend more CPU resources on other processes.

setenv name value

Place a (name, value) pair into the process environment. The value is subjected to `%<letter>` expansions and may contain whitespace (but leading and trailing blanks are stripped off).

Warning: many network daemons reset their environment before spawning a login or shell process.

umask 022

Like the `umask` command that is built into the shell. An umask of 022 prevents the creation of files with group and world write permission. The umask argument should be an octal number.

user nobody

user nobody.kmem

Assume the privileges of the "nobody" userid (or user "nobody", group "kmem"). The first form is useful with inetd implementations that run all services with root privilege. The second form is useful for services that need special group privileges only.

DIAGNOSTICS

When a syntax error is found in an access control rule, the error is reported to the syslog daemon; further options will be ignored, and service is denied.

SEE ALSO

hosts_access(5), the default access control language

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