



Module Code & Module Title

Level 5 – Operating Systems

Assessment Type

Logbook 6

Semester

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I confirm that I understand my coursework needs to be submitted online via MST Classroom under the relevant module page before the deadline in order for my assignment to be accepted and marked. I am fully aware that late submissions will be treated as non-submission and a mark of zero will be awarded

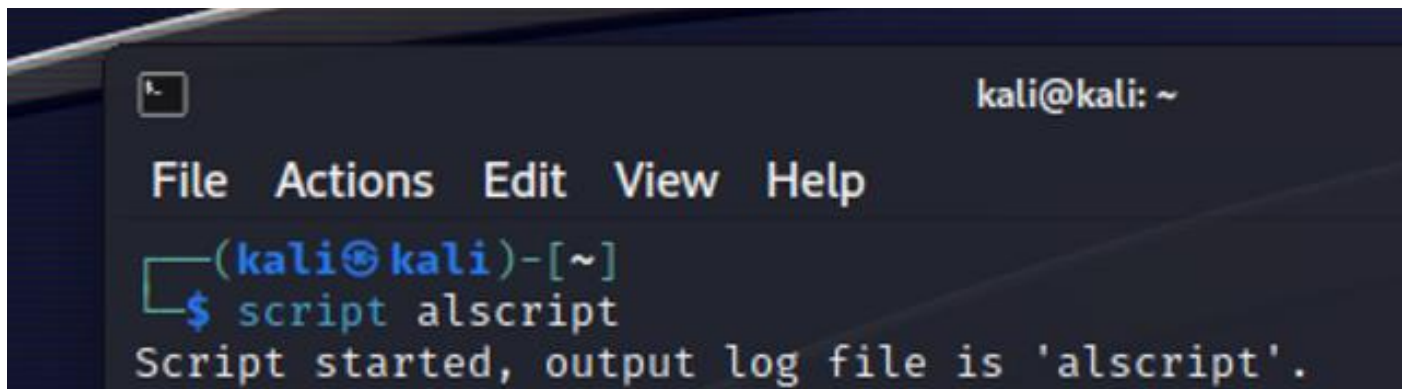
Logbook 6

Objectives:

It aims to teach how to start and manage a script, check system information such as the username, date, and files, as well as explore the contents of files. The workshop also focuses on creating and combining text files, navigating directories using both absolute and relative pathnames, and exiting scripts properly. By completing these tasks, students will gain hands-on experience with essential command-line operations and improve their understanding of file management and navigation in a Unix environment.

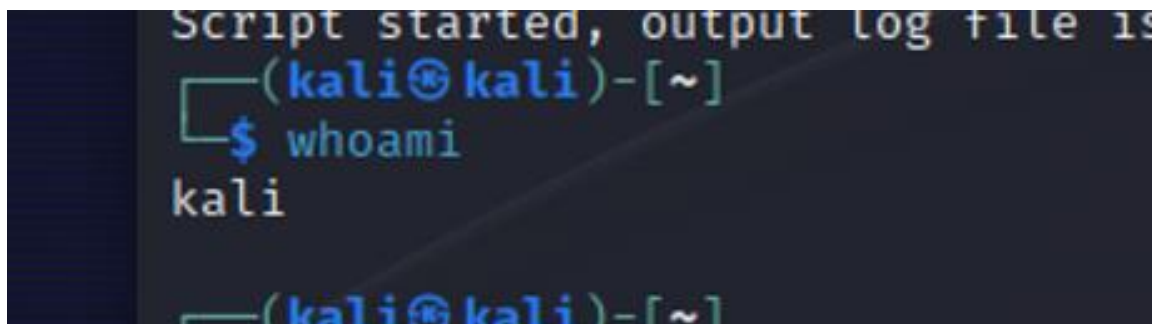
Steps

Step 1: Type “alscript” at the prompt to start the script and initialize the first step.

A terminal window with a dark background. The title bar shows a window icon and the text 'kali@kali: ~'. The menu bar contains 'File', 'Actions', 'Edit', 'View', and 'Help'. The terminal shows a prompt '(kali@kali)-[~]' followed by the command '\$ script alscript'. Below the command, the output 'Script started, output log file is 'alscript'.' is displayed.

```
kali@kali: ~  
File Actions Edit View Help  
(kali@kali)-[~]  
$ script alscript  
Script started, output log file is 'alscript'.
```

Step 2: Type “whoami” at the prompt to display your current username.

A terminal window showing the continuation of the script. The prompt '(kali@kali)-[~]' is followed by the command '\$ whoami'. The output 'kali' is displayed below the command.

```
Script started, output log file is  
(kali@kali)-[~]  
$ whoami  
kali  
(kali@kali)-[~]
```

Step 3: Type “date” at the prompt to view today’s date and the current time.

```
(kali@kali)-[~]  
$ date  
Sun Dec  8 10:58:15 PM EST 2024
```

Step 4: Type “ls” at the prompt to display the files and directories in the current location.

```
(kali@kali)-[~]  
$ ls  
alscript  Desktop  Downloads  foldername  Pictures  Templates  zphisher  
class     Documents evani       Music        Public    Videos
```

Step 5: Type “ls -a” to show all files, including hidden ones that start with a dot.

```
kali@kali: ~  
File Actions Edit View Help  
class  Documents evani  Music  Public  Videos  
  
(kali@kali)-[~]  
$ ls -a  
.  
..  
alscript  Music  
.bash_logout  Pictures  
.bashrc  .profile  
.bashrc.original  Public  
.cache  Templates  
class  .vboxclient-clipboard-tty7-control.pid  
.config  .vboxclient-clipboard-tty7-service.pid  
Desktop  .vboxclient-display-svgx-x11-tty7-control.pid  
.dmrc  .vboxclient-display-svgx-x11-tty7-service.pid  
Documents  .vboxclient-draganddrop-tty7-control.pid  
Downloads  .vboxclient-draganddrop-tty7-service.pid  
evani  .vboxclient-hostversion-tty7-control.pid  
.face  .vboxclient-seamless-tty7-control.pid  
.face.icon  .vboxclient-seamless-tty7-service.pid  
foldername  .vboxclient-vmsvga-session-tty7-control.pid  
.gnupg  Videos  
.ICEauthority  .Xauthority  
.java  .xsession-errors  
.local  .xsession-errors.old  
.mozilla  zphisher  
      .zsh_history  
      .zshrc
```

Step 6: Type “ls -a -l” to view a detailed list of all files, including permissions, ownership, size, and modification date.

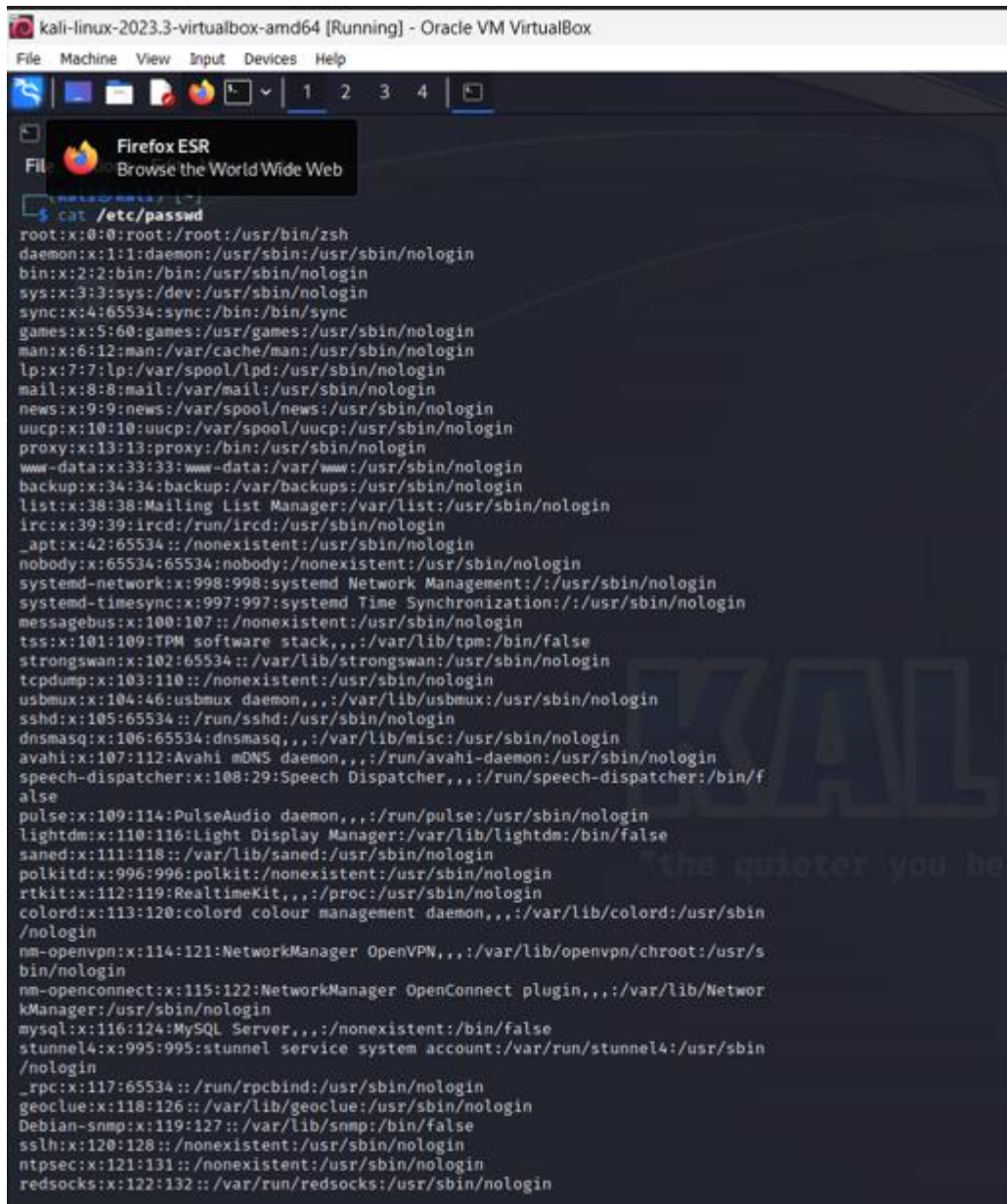
```
kali@kali: ~  
File Actions Edit View Help  
(kali@kali)-[~]  
└─$ ls -a -l  
total 192  
drwx----- 20 kali kali 4096 Dec  8 22:57 .  
drwxr-xr-x  3 root root 4096 Aug 21 2023 ..  
-rw-r--r--  1 kali kali    0 Dec  8 22:57 alscrip  
-rw-r--r--  1 kali kali  220 Aug 21 2023 .bash_logout  
-rw-r--r--  1 kali kali 5551 Aug 21 2023 .bashrc  
-rw-r--r--  1 kali kali 3526 Aug 21 2023 .bashrc.original  
drwxr-xr-x  9 kali kali 4096 Apr 16 2024 .cache  
drwxr-xr-x  2 kali kali 4096 Dec  5 22:40 class  
drwxr-xr-x 12 kali kali 4096 Nov 29 2023 .config  
drwxr-xr-x  2 kali kali 4096 Nov 29 2023 Desktop  
-rw-r--r--  1 kali kali  35 Nov 29 2023 .dmrc  
drwxr-xr-x  2 kali kali 4096 Nov 29 2023 Documents  
drwxr-xr-x  2 kali kali 4096 Nov 29 2023 Downloads  
drwxr-xr-x  2 kali kali 4096 Dec  5 22:46 evani  
-rw-r--r--  1 kali kali 11759 Aug 21 2023 .face  
lrwxrwxrwx  1 kali kali    5 Aug 21 2023 .face.icon → .face  
drwxr-xr-x  2 kali kali 4096 Dec  5 22:43 foldername  
drwx----- 3 kali kali 4096 Nov 29 2023 .gnupg  
-rw----- 1 kali kali    0 Nov 29 2023 .ICEauthority  
drwxr-xr-x  3 kali kali 4096 Aug 21 2023 .java  
drwxr-xr-x  4 kali kali 4096 Nov 29 2023 .local  
drwx----- 4 kali kali 4096 Feb 20 2024 .mozilla  
drwxr-xr-x  2 kali kali 4096 Nov 29 2023 Music  
drwxr-xr-x  2 kali kali 4096 Nov 29 2023 Pictures
```

```
kali@kali: ~  
File Actions Edit View Help  
lrwxrwxrwx  1 kali kali    5 Aug 21 2023 .face.icon → .face  
drwxr-xr-x  2 kali kali 4096 Dec  5 22:43 foldername  
drwx----- 3 kali kali 4096 Nov 29 2023 .gnupg  
-rw----- 1 kali kali    0 Nov 29 2023 .ICEauthority  
drwxr-xr-x  3 kali kali 4096 Aug 21 2023 .java  
drwxr-xr-x  4 kali kali 4096 Nov 29 2023 .local  
drwx----- 4 kali kali 4096 Feb 20 2024 .mozilla  
drwxr-xr-x  2 kali kali 4096 Nov 29 2023 Music  
drwxr-xr-x  2 kali kali 4096 Nov 29 2023 Pictures  
-rw-r--r--  1 kali kali  807 Aug 21 2023 .profile  
drwxr-xr-x  2 kali kali 4096 Nov 29 2023 Public  
drwxr-xr-x  2 kali kali 4096 Nov 29 2023 Templates  
-rw-r----- 1 kali kali    5 Dec  8 22:33 .vboxclient-clipboard-tty7-control  
.pid  
-rw-r----- 1 kali kali    5 Dec  8 22:33 .vboxclient-clipboard-tty7-service  
.pid  
-rw-r----- 1 kali kali    5 Dec  8 22:33 .vboxclient-display-svgx-x11-tty7-  
control.pid  
-rw-r----- 1 kali kali    5 Dec  8 22:33 .vboxclient-display-svgx-x11-tty7-  
service.pid  
-rw-r----- 1 kali kali    5 Dec  8 22:33 .vboxclient-draganddrop-tty7-contr  
ol.pid  
-rw-r----- 1 kali kali    5 Dec  8 22:33 .vboxclient-draganddrop-tty7-servl  
ce.pid  
-rw-r----- 1 kali kali    5 Dec  8 22:33 .vboxclient-hostversion-tty7-contr  
ol.pid  
-rw-r----- 1 kali kali    5 Dec  8 22:33 .vboxclient-seamless-tty7-control.
```

```
kali@kali: ~  
File Actions Edit View Help  
lrwxrwxrwx 1 kali kali 5 Aug 21 2023 .face.icon → .face  
drwxr-xr-x 2 kali kali 4096 Dec 5 22:43 foldername  
drwx----- 3 kali kali 4096 Nov 29 2023 .gnupg  
-rw----- 1 kali kali 0 Nov 29 2023 .ICEauthority  
drwxr-xr-x 3 kali kali 4096 Aug 21 2023 .java  
drwxr-xr-x 4 kali kali 4096 Nov 29 2023 .local  
drwx----- 4 kali kali 4096 Feb 20 2024 .mozilla  
drwxr-xr-x 2 kali kali 4096 Nov 29 2023 Music  
drwxr-xr-x 2 kali kali 4096 Nov 29 2023 Pictures  
-rw-r--r-- 1 kali kali 807 Aug 21 2023 .profile  
drwxr-xr-x 2 kali kali 4096 Nov 29 2023 Public  
drwxr-xr-x 2 kali kali 4096 Nov 29 2023 Templates  
-rw-r----- 1 kali kali 5 Dec 8 22:33 .vboxclient-clipboard-tty7-control.  
.pid  
-rw-r----- 1 kali kali 5 Dec 8 22:33 .vboxclient-clipboard-tty7-service.  
.pid  
-rw-r----- 1 kali kali 5 Dec 8 22:33 .vboxclient-display-svgx-x11-tty7-  
control.pid  
-rw-r----- 1 kali kali 5 Dec 8 22:33 .vboxclient-display-svgx-x11-tty7-  
service.pid  
-rw-r----- 1 kali kali 5 Dec 8 22:33 .vboxclient-draganddrop-tty7-contr  
ol.pid  
-rw-r----- 1 kali kali 5 Dec 8 22:33 .vboxclient-draganddrop-tty7-servi  
ce.pid  
-rw-r----- 1 kali kali 5 Dec 8 22:33 .vboxclient-hostversion-tty7-contr  
ol.pid  
-rw-r----- 1 kali kali 5 Dec 8 22:33 .vboxclient-seamless-tty7-control.
```

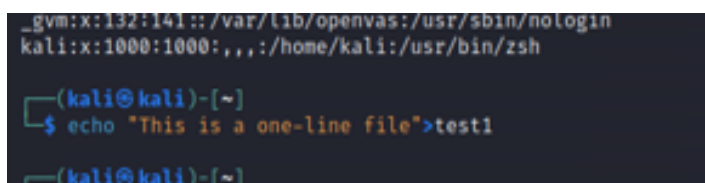
```
kali@kali: ~  
File Actions Edit View Help  
.pid  
-rw-r----- 1 kali kali 5 Dec 8 22:33 .vboxclient-display-svgx-x11-tty7-  
control.pid  
-rw-r----- 1 kali kali 5 Dec 8 22:33 .vboxclient-display-svgx-x11-tty7-  
service.pid  
-rw-r----- 1 kali kali 5 Dec 8 22:33 .vboxclient-draganddrop-tty7-contr  
ol.pid  
-rw-r----- 1 kali kali 5 Dec 8 22:33 .vboxclient-draganddrop-tty7-servi  
ce.pid  
-rw-r----- 1 kali kali 5 Dec 8 22:33 .vboxclient-hostversion-tty7-contr  
ol.pid  
-rw-r----- 1 kali kali 5 Dec 8 22:33 .vboxclient-seamless-tty7-control.  
pid  
-rw-r----- 1 kali kali 5 Dec 8 22:33 .vboxclient-seamless-tty7-service.  
pid  
-rw-r----- 1 kali kali 5 Dec 8 22:33 .vboxclient-vmsvga-session-tty7-co  
ntrol.pid  
drwxr-xr-x 2 kali kali 4096 Nov 29 2023 Videos  
-rw----- 1 kali kali 49 Dec 8 22:33 .Xauthority  
-rw----- 1 kali kali 5928 Dec 8 22:33 .xsession-errors  
-rw----- 1 kali kali 5924 Dec 5 22:25 .xsession-errors.old  
drwxr-xr-x 8 kali kali 4096 Feb 20 2024 .zphisher  
-rw----- 1 kali kali 57 Mar 12 2024 .zsh_history  
-rw-r--r-- 1 kali kali 10868 Aug 21 2023 .zshrc  
  
(kali@kali)-[~]  
$
```


Step 7: Type “cat /etc/passwd” at the prompt to display the contents of the /etc/passwd file, which contains information about user accounts on the system.



```
kali-linux-2023.3-virtualbox-amd64 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Firefox ESR
Browse the World Wide Web
$ cat /etc/passwd
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:997:997:systemd Time Synchronization:/:/usr/sbin/nologin
messagebus:x:100:107::/nonexistent:/usr/sbin/nologin
tss:x:101:109:TPM software stack,,:/var/lib/tpm:/bin/false
strongswan:x:102:65534::/var/lib/strongswan:/usr/sbin/nologin
tcpdump:x:103:110::/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:107:112:Avahi mDNS daemon,,:/run/avahi-daemon:/usr/sbin/nologin
speech-dispatcher:x:108:29:Speech Dispatcher,,:/run/speech-dispatcher:/bin/false
pulse:x:109:114:PulseAudio daemon,,:/run/pulse:/usr/sbin/nologin
lightdm:x:110:116:Light Display Manager:/var/lib/lightdm:/bin/false
saned:x:111:118::/var/lib/saned:/usr/sbin/nologin
polkitd:x:996:996:polkit:/nonexistent:/usr/sbin/nologin
rtkit:x:112:119:RealtimeKit,,:/proc:/usr/sbin/nologin
colord:x:113:120:colord colour management daemon,,:/var/lib/colord:/usr/sbin/nologin
nm-openvpn:x:114:121:NetworkManager OpenVPN,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
nm-openconnect:x:115:122:NetworkManager OpenConnect plugin,,:/var/lib/NetworkManager:/usr/sbin/nologin
mysql:x:116:124:MySQL Server,,:/nonexistent:/bin/false
stunnel4:x:995:995:stunnel service system account:/var/run/stunnel4:/usr/sbin/nologin
_rpc:x:117:65534::/run/rpcbind:/usr/sbin/nologin
geoclue:x:118:126::/var/lib/geoclue:/usr/sbin/nologin
Debian-snmpp:x:119:127::/var/lib/snmpp:/bin/false
sshd:x:120:128::/nonexistent:/usr/sbin/nologin
ntpssec:x:121:131::/nonexistent:/usr/sbin/nologin
redsocks:x:122:132::/var/run/redsocks:/usr/sbin/nologin
```

Step 8: Type echo "This is a one-line file" > test1 to create a file named test1 containing the text: "This is a one-line file".



```
_gvm:x:132:141::/var/lib/openvas:/usr/sbin/nologin
kali:x:1000:1000:::/home/kali:/usr/bin/zsh
(kali@kali)-[~]
$ echo "This is a one-line file">test1
(kali@kali)-[~]
```

Step 9: Create a Multi-Line File, followed by pressing CTRL-D (^D) to save and close the file.

```
(kali@kali)-[~]
└─$ echo "This is a one-line file">test1

(kali@kali)-[~]
└─$ cat > test2

This is file two.
It has several lines.
Three lines, in fact.
```

Step 10: Type "ls" to confirm the file test2 exists, and then type cat test2 to display its contents.

```
(kali@kali)-[~]
└─$ ls
alscript  class  Desktop  Documents  Downloads  evani  foldername  Music  Pictures  Public  Templates  test1  test2  Videos  xphisher

(kali@kali)-[~]
```

Step 11: Create a tree.

```
(kali@kali)-[~]
└─$ mkdir -p Nepal/{Bagmati/{ktm,Rasuwa},Gandaki/{kaski,gorkha}}

(kali@kali)-[~]
└─$ tree

-- alscript
-- class
-- Desktop
-- Documents
-- Downloads
-- evani
-- foldername
-- Music
-- Nepal
  |-- Bagmati
  |   |-- ktm
  |   |-- Rasuwa
  |-- Gandaki
  |   |-- gorkha
  |   |-- kaski
```