# Solution M5 (@VasAtanasov)

### Solution Details

**CHECK:** [*https://courses.zahariev.pro/check.php?20250409175620MLnVJlxbCN*](https://courses.zahariev.pro/check.php?20250409175620MLnVJlxbCN)

1.

vasil@debian:~$ sudo vim /etc/defaul/grub

// Set timeout to 60s and deleted quite

...

GRUB\_DEFAULT=0

GRUB\_TIMEOUT=60

GRUB\_DISTRIBUTOR=`lsb\_release -i -s 2> /dev/null || echo Debian`

GRUB\_CMDLINE\_LINUX\_DEFAULT=""

GRUB\_CMDLINE\_LINUX=""

...

vasil@debian:~$ sudo grub-mkconfig

Generating grub configuration file ...

...

done

vasil@debian:~$ sudo reboot

2.

vasil@debian:~$ sudo dmesg -H | sort -r > boot-extract.txt

3.

vasil@debian:~$ grep After /usr/lib/systemd/system/ssh.service > sshd-after.txt

4.

vasil@debian:~$ pstree

-bash: pstree: command not found

vasil@debian:~$ apt-cache search pstree

psmisc - utilities that use the proc file system

vasil@debian:~$ sudo apt install psmisc

vasil@debian:~$ pstree

systemd─┬─agetty

├─apache2───2\*[apache2───26\*[{apache2}]]

├─cron

├─dbus-daemon

├─dhclient

├─sshd───sshd───sshd───bash───pstree

├─systemd───(sd-pam)

├─systemd-journal

├─systemd-logind

├─systemd-timesyn───{systemd-timesyn}

├─systemd-udevd

└─wpa\_supplicant

vasil@debian:~$ pstree -p > processes-tree.txt

5.

vasil@debian:~$ df -BGB > free-space.txt

6.

vasil@debian:~$ du -d 1 -h / 2> /dev/null | sort -h -r > used-space.txt

7.

vasil@debian:~$ pidstat

-bash: pidstat: command not found

vasil@debian:~$ apt-cache search pidstat

sysstat - system performance tools for Linux

vasil@debian:~$ sudo apt update && sudo apt install sysstat -y

vasil@debian:~$ pidstat 5 5 > stat-output.txt

8.

vasil@debian:~$ sudo lsof +D /etc > open-files.txt; echo 'sudo lsof +D /etc > open-files.txt' >> open-files.txt

9.

vasil@debian:~$ sudo top -b -n 5 -d 5 > process-monitoring.txt

### Result

{

"homework": {

"date": "2025-04-09 20:56:19",

"vm": 1,

"fware": "BIOS",

"family": "Debian",

"distribution": "Debian GNU/Linux 12 (bookworm)",

"module": 5,

"tests": [

{

"id": 1,

"name": "Testing if GRUB timeout is set to 60",

"result": "PASS"

},

{

"id": 2,

"name": "Testing if no quiet is appended to the Kernel command line",

"result": "PASS"

},

{

"id": 3,

"name": "Testing if the GRUB configuration changes were applied",

"result": "PASS"

},

{

"id": 4,

"name": "Testing for the boot-extract.txt file",

"result": "PASS"

},

{

"id": 5,

"name": "Testing for the After clause of the sshd.service",

"result": "PASS"

},

{

"id": 6,

"name": "Testing for the processes-tree.txt file",

"result": "PASS"

},

{

"id": 7,

"name": "Testing for the free-space.txt file",

"result": "PASS"

},

{

"id": 8,

"name": "Testing for the used-space.txt file",

"result": "PASS"

},

{

"id": 9,

"name": "Testing for the stat-output.txt file",

"result": "PASS"

},

{

"id": 10,

"name": "Testing for the open-files.txt file",

"result": "PASS"

},

{

"id": 11,

"name": "Testing for the process-monitoring.txt file",

"result": "PASS"

}

]

}

}