Operating Systems

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Time taken	44 mins 29 secs
Grade	**11.01** out of 15.00 (**73.39**%)

Question **1**
Correct
Mark 1.00 out of 1.00
⚑ Flag question

Označi kateri ukazi so vgrajeni.

Indicate which commands are built in.

- ☑ a. echo ✔
- ☑ b. pwd ✔
- ☐ c. man
- ☐ d. info
- ☐ e. ls
- ☑ f. cd ✔
- ☑ g. help ✔
- ☐ h. mv

Vaš odgovor je pravilen.

Question **2**
Correct
Mark 1.00 out of 1.00
⚑ Flag question

Nahajamo se v imeniku ./home/student kjer imamo 3 podimenike: vaje1, vaje2 in vaje3.

Kaj naredi ukaz cp ../administrator/../student/vaje1/.* vaje2

Izberite en odgovor:

We are in the /home/student directory where we have 3 subdirectories: vaje1, vaje2 and vaje3.

What does the command:

cp ../administrator/../student/vaje1/.* vaje2

do?

- ○ a. Skopira vse datoteke iz imenika /home/administrator/vaje1, ki vsebujejo piko, v imenik vaje2

  Copies all files from /home/administrator/vaje1 that contain a dot to the vaje2 directory
- ◉ b. Skopira vse skrite datoteke iz imenika /home/student/vaje1, v imenik /home/student/vaje2 ✔

  Copies all hidden files from /home/student/vaje1 to /home/student/vaje2
- ○ c. Skopira vse datoteke iz imenika /home/student/vaje1, ki vsebujejo piko, v imenik /home/student/vaje2

  Copies all files from /home/student/vaje1 containing a dot to /home/student/vaje2

Vaš odgovor je pravilen.

Question **3**
Partially correct
Mark 0.25 out of 1.00
⚑ Flag question

Poženemo/Run: [-s datoteka.txt] || echo "1" && echo "2"

Izberi pravilno trditev:

Choose the correct statement:

- ☑ a. Izpisalo se bo 2 v primeru, če datoteka obstaja in ni prazna ✔
  2 will be displayed if the file exists and is not empty
- ☑ b. Izpisalo se bo 2 v primeru, če je datoteka tipa vtičnica (socket) ✘
  2 will be displayed if the file type is socket
- ☐ c. Izpisalo se bo 1 in 2 v primeru, če je datoteka tipa vtičnica (socket)
  1 and 2 will be displayed if the file is of type socket
- ☐ d. Izpisalo se bo 1 v primeru, če ima datoteka lepljivi bit (sticky bit)
  1 will be displayed if the file has a sticky bit
- ☐ e. Izpisalo se bo 1 in 2 v primeru, če datoteka obstaja
  1 and 2 will be displayed if the file exists
- ☐ f. Izpisalo se bo 2 v primeru, če je datoteka prazna
  2 will be displayed if the file is empty

Vaš odgovor je delno pravilen.

You have correctly selected 1.

Question **4**
Incorrect
Mark -0.20 out of 1.00
⚑ Flag question

Kakšna je številka ID primarne skupine, uporabnika syslog?

What is the ID number of the primary group of the syslog user?

- ○ a. uporabnika s tem imenom ni na sistemu
  the user with that name is not on the system
- ○ b. 131
- ○ c. 106
- ○ d. 111
- ○ e. 7
- ◉ f. 102 ✘

Vaš odgovor je nepravilen.

Question **5**
Incorrect
Mark -0.17 out of 1.00
⚑ Flag question

Kakšna je velikost stisnjenega jedra operacijskega sistema Linux, ki se trenutno uporablja?

What is the compressed kernel size of the Linux operating system currently in use?

- ◉ a. 13 MB ✘
- ○ b. 25 B
- ○ c. 25 KB
- ○ d. 1,2 GB
- ○ e. 126376 B

Question 6
Correct
Mark 1.00 out of 1.00
⚑ Flag question

Pretvorite pravice iz osmiškega v simbolični zapis (kakršen je prikazan v izpisih ukaza ls -l oziroma stat).
Convert permissions from octal to symbolic form (as it is used by ls -l and stat).

751

Answer: | RWXR-X--X | ✔

Question 7
Correct
Mark 1.00 out of 1.00
⚑ Flag question

Nahajamo se v /home/student.
Pognali smo ls -l v imeniku / in med drugim dobili sledeči izpis:
drwxr-xr-x 1 root   root   4096 Mar 26 06:06 mod
Kako ustvarimo mehko povezavo mod, v trenutnem imeniku, ki kaže na datoteko iz izpisa?
Zapišite ukaz (ali zaporedje ukazov), uporabite relativno pot.

The current directory is /home/student.
We executed ls -l in the / directory with the following output:
drwxr-xr-x 1 root   root   4096 Mar 26 06:06 mod
How can we create soft link mod in current directory that points to the printed file?
Write the command (or sequence of commands), use relative path.

Answer: | ln -s ../../mod mod | ✔

Question 8
Correct
Mark 1.00 out of 1.00
⚑ Flag question

Ustvarite imenik page v trenutnem imeniku kot uporabnik www-data.
Napišite ukaz (ali zaporedje ukazov).

Create directory page in current directoy as www-data user.
Write the command (or sequence of commands).

Answer: | sudo -u www-data mkdir page | ✔

Question 9
Correct
Mark 1.00 out of 1.00
⚑ Flag question

Radi bi ustvarili imenik z imenom trenutnega uporabnika in pripono ".new", npr. za uporabnika miha → miha.new.
Zapišite ukaz (ali zaporedje ukazov).

We want to create a directory with the name of current user and suffix ".new", e. g. for user miha → miha.new.
Write the command (or sequence of commands).

Answer: | mkdir $USER.new | ✔

Question 10
Correct
Mark 1.00 out of 1.00
⚑ Flag question

Kje so shranjena gesla uporabnikov?
Napišite ukaz (zaporedje ukazov) s katerim to pogledate.

Where are user passwords saved?
Write the command (or sequence of commands) that enables us to display them.

Answer: | sudo cat /etc/shadow | ✔

Question 11
Complete
Mark 4.13 out of 5.00
⚑ Flag question

Napiši bash skripto, ki:
1. Naredi novega uporabnika z uporabniškim imenom "veverica" in mu kreira in nastavi domači imenik na /home/hrast. Če dodajanje uporabnika ni uspešno, naj skripta izpiše "Nimaš pravic ali pa uporabnik že obstaja." in se zaključi z izhodnim statusom 42.
2. Uporabnika veverica doda med uporabnike, ki lahko ukaze poganjajo kot korenski uporabnik (root, superuser).
3. Izpiše uporabniški ID (uid) in ID primarne skupine (gid) uporabnika veverica.
4. Naredi novo datoteko /home/hrast/veja.txt in lastništvo te datoteke prenese na uporabnika veverica.
5. Datoteki /home/hrast/veja.txt nastavi pravice, tako da lastnik lahko bere in piše v datoteko, skupina lahko datoteko samo bere, ostali uporabniki pa nimajo na datoteki nobenih pravic.
6. Uporabniku, ki je skripto pognal, doda pravice za branje in pisanje v datoteko /home/hrast/veja.txt. Pri tem naj pusti lastništvo in pravice lastnika, skupine in ostalih uporabnikov pri miru.

Pri pisanju skripte predpostavite, da ima uporabnik, ki skripto poganja, pravico izvajati ukaze kot superuser, a naj skripta ukaze kot superuser poganja le, ko je to potrebno. Dovoljeno je, da skripta med poganjanjem od uporabnika zahteva vnos gesla. Rešitve posameznih podnalog so lahko sestavljene iz več ukazov, ne nujno le enega.

Write a bash script that:
1. Creates a new user with the username "veverica", and creates and sets their home directory to /home/hrast. If creating the user is unsuccessful, the script should print the message "Nimaš pravic ali pa uporabnik že obstaja." and terminate with the exit status 42.
2. Adds the user veverica to the list of users that are allowed to execute commands as the root user (superuser).
3. Prints the user ID (uid) and the primary group ID (gid) of the user veverica.
4. Creates the file /home/hrast/veja.txt and transfers ownership of the file to the user veverica.
5. Sets the permissions of /home/hrast/veja.txt so that the owner can read and write into the file, the group can only read the file, while any other users have no permissions on the file.
6. Gives the user that ran the script read and write permissions for the /home/hrast/veja.txt file, without changing the file's ownership or the permissions of the owner, group, and other users on the system.

When writing the script, assume the script runner is able to run commands as the superuser, however the script should only execute commands as the superuser when necessary. The script is allowed to prompt the user for password entry during execution. The solution for each subproblem may be comprised of several commands, not necessarily just one.

```
#!/bin/bash
sudo useradd veverica --home /home/hrast ||  echo "nimaš pravic ali pa uporabni>
sudo usermod -aG sudo veverica
echo ${id -u veverica} ${id -g veverica}
touch /home/hrast/veja.txt
sudo chown veverica:veverica /home/hrast/veja.txt
chmod 640 veja.txt
setfacl -m ["u:$USER:$USER] [:+rw] veja.txt
```

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