

Homework: Linux. Logging and working with text files

1. Display the size of your disk partitions using df into a separate file;

```
[testvmadmin@testvm ~]$ df -h|grep -e '/dev/\(mapper\)|\(\sd\)' > diskusage
[testvmadmin@testvm ~]$ cat diskusage
/dev/mapper/cs-root    12G   1.9G   9.8G   17% /
/dev/sdb2              1.0G   3.5M   905M    1% /homework/btrfs
/dev/sdb1              976M   1.3M   924M    1% /homework/ext
/dev/sda1             1014M   226M   789M   23% /boot
```

2. Through the cat, reduce the number of columns to three, leaving only Filesystem, USE and Mounted on;

```
[testvmadmin@testvm ~]$ cat diskusage | awk '{ print $1" "$5" "$6 }'
/dev/mapper/cs-root 17% /
/dev/sdb2 1% /homework/btrfs
/dev/sdb1 1% /homework/ext
/dev/sda1 23% /boot
```

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3. Sort the obtained values in the second step;

```
[testvmadmin@testvm ~]$ cat diskusage | awk '{ print $1" "$5" "$6 }' | sort -n -k 2  
/dev/sdb1 1% /homework/ext  
/dev/sdb2 1% /homework/btrfs  
/dev/mapper/cs-root 17% /  
/dev/sda1 23% /boot
```

4. Define the size of all files and folders in the / etc directory;

```
du -cks /etc
```

Output is too long (300 lines)

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5. Sort the output to show only the TOP 10 largest files.

```
testvmadmin@testvm ~]$ sudo du /etc/*|sort -n -k1 -r|head -10
10868    /etc/udev
8908     /etc/selinux
8900     /etc/selinux/targeted
8372     /etc/selinux/targeted/policy
944      /etc/pki
908      /etc/pki/ca-trust
896      /etc/pki/ca-trust/extracted
680      /etc/services
604      /etc/ssh
512      /etc/selinux/targeted/contexts
```