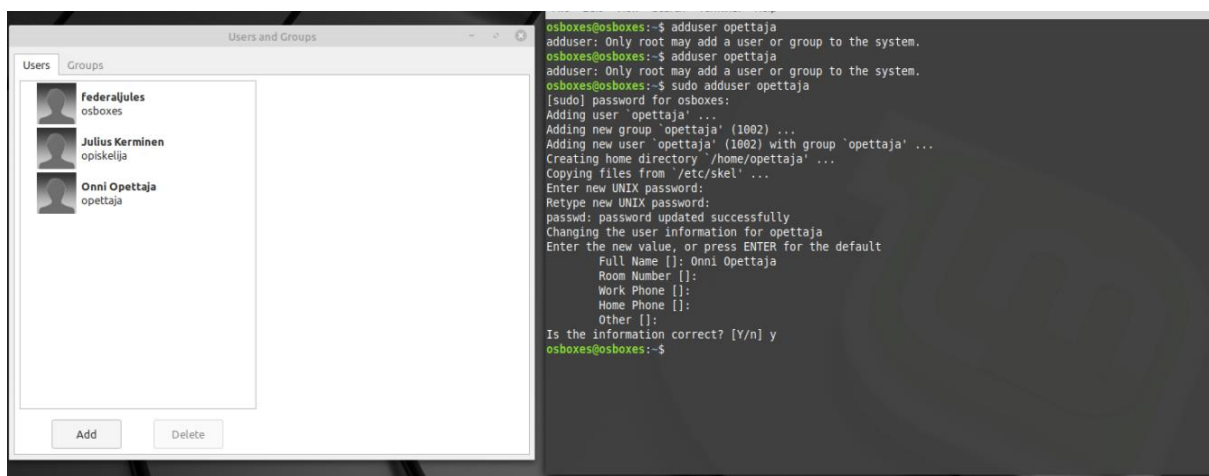
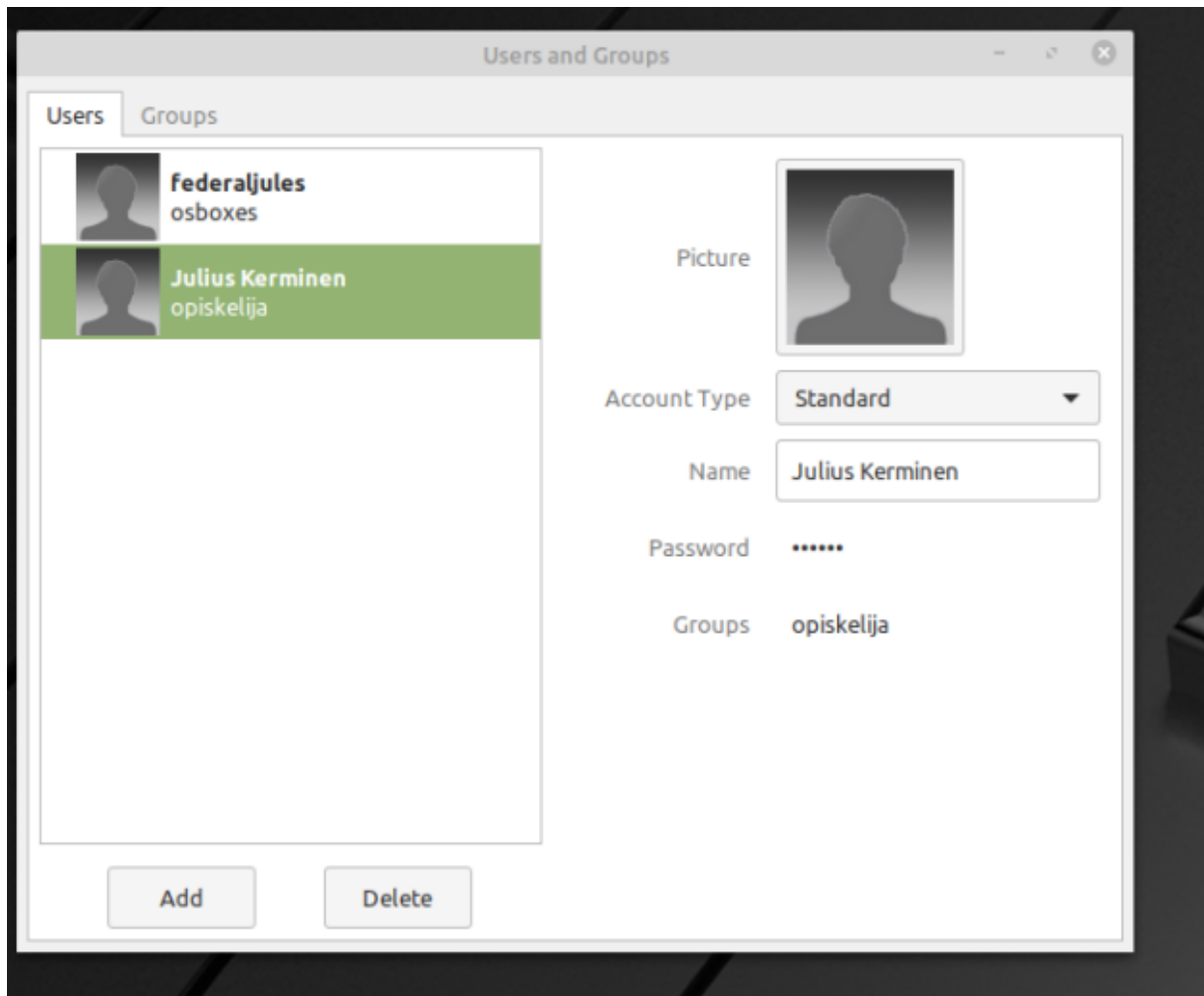
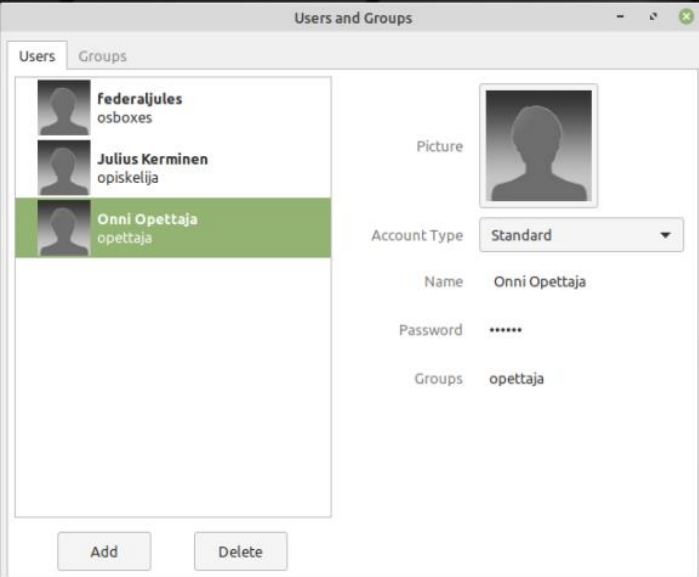


4.1





```

osboxes@osboxes:~$ gpasswd -a opettaja opettaja
gpasswd: Permission denied.
osboxes@osboxes:~$ sudo gpasswd -a opettaja opettaja
Adding user opettaja to group opettaja
osboxes@osboxes:~$

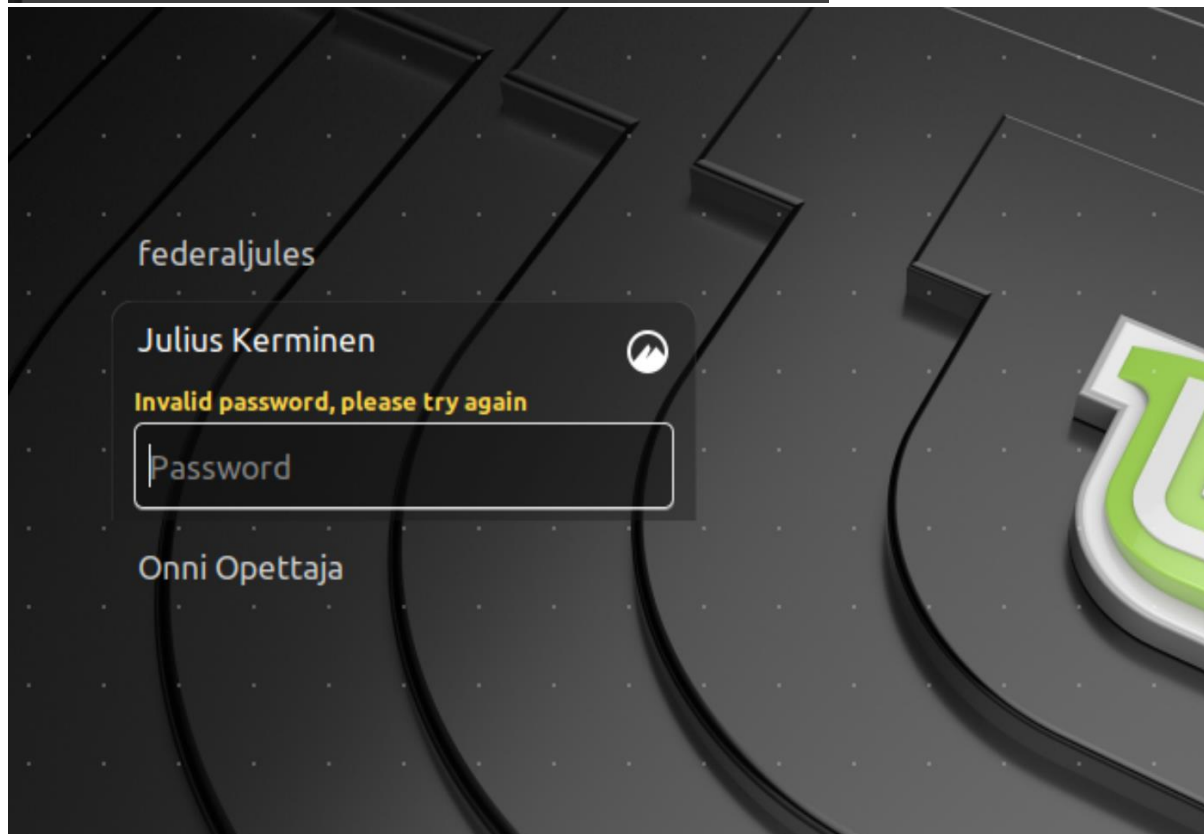
```

```

osboxes@osboxes:/$ sudo setfacl -m u:opettaja:rwX opettajan_tiedostot
[sudo] password for osboxes:
osboxes@osboxes:/$ sudo setfacl -m u:opiskelija:rwX opiskelijan_tiedostot
osboxes@osboxes:/$ ls -lh
total 112K
drwxr-xr-x  2 root root 4,0K Apr 29 16:05 bin
drwxr-xr-x  4 root root 4,0K Apr 29 16:07 boot
drwxr-xr-x  2 root root 4,0K Aug  4 2019 cdrom
drwxr-xr-x 18 root root 3,9K Apr 29 21:18 dev
drwxr-xr-x 143 root root 12K Apr 29 21:35 etc
drwxr-xr-x  6 root root 4,0K Apr 29 21:31 home
lrwxrwxrwx  1 root root 33 Aug  4 2019 initrd.img -> boot/initrd.img-4.15.0-54-generic
lrwxrwxrwx  1 root root 33 Aug  4 2019 initrd.img.old -> boot/initrd.img-4.15.0-54-generic
-rw-r--r--  1 root root 49 Apr 28 22:13 K0PIOIDUT
drwxr-xr-x 24 root root 4,0K Mar 18 16:03 lib
drwxr-xr-x  2 root root 4,0K Jul 29 2019 lib64
drwx----- 2 root root 16K Aug  4 2019 lost+found
drwxr-xr-x  2 root root 4,0K Jul 29 2019 media
drwxr-xr-x  2 root root 4,0K Jul 29 2019 mnt
drwxrwxr-x+ 2 root root 4,0K Apr 29 21:47 opettajan_tiedostot
drwxrwxr-x+ 2 root root 4,0K Apr 29 21:46 opiskelijan_tiedostot
drwxr-xr-x  4 root root 4,0K Mar 18 16:03 opt
dr-xr-xr-x 212 root root  0 Apr 29 15:37 proc
drwx----- 4 root root 4,0K Aug  4 2019 root
drwxr-xr-x 32 root root 940 Apr 29 22:08 run
drwxr-xr-x  2 root root 16K Apr 29 16:06 sbin
drwxr-xr-x  2 root root 4,0K Jul 29 2019 srv
dr-xr-xr-x 13 root root  0 Apr 29 22:05 sys
drwxrwxrwt 16 root root 4,0K Apr 29 22:08 tmp
drwxr-xr-x 11 root root 4,0K Jul 29 2019 usr
drwxr-xr-x 11 root root 4,0K Jul 29 2019 var
lrwxrwxrwx  1 root root 30 Aug  4 2019 vmlinuz -> boot/vmlinuz-4.15.0-54-generic
osboxes@osboxes:/$

```

```
osboxes@osboxes:~$ usermod -L opiskelija
usermod: Permission denied.
usermod: cannot lock /etc/passwd; try again later.
osboxes@osboxes:~$ sudo usermod -L opiskelija
[sudo] password for osboxes:
osboxes@osboxes:~$
```



4.2

The image displays a Linux desktop environment with two main windows open: 'System Monitor' and a terminal window.

System Monitor Window:

- Processes Tab:** Shows a list of running processes. The table includes columns for Process Name, User, % CPU, ID, Memory, Disk read total, Disk write total, Disk read, Disk write, and Priority.
- Resources Tab:** Shows system-wide resource usage, including CPU, Memory, and Disk I/O.
- File Systems Tab:** Shows the status of mounted file systems.

Terminal Window:

- Top Panel:** Displays system statistics: Tasks: 147, 493; Load average: 0.40, 0.17, 0.15; Uptime: 07:31:24.
- Command History:** Shows a list of commands entered, including `ps aux`, `top`, and `df -h`.
- Terminal Output:** Displays the output of the `ps aux` command, showing a detailed list of processes with their PID, USER, PRI, NI, VIRT, RES, SHR, S, CPU, MEM, TIME+, and Command.


```
osboxes@osboxes: ~
File Edit View Search Terminal Help

osboxes@osboxes:~$ sudo renice -10 -p 17935
17935 (process ID) old priority 0, new priority -10
osboxes@osboxes:~$
osboxes@osboxes:~$ kill 17935
osboxes@osboxes:~$ kill -9 16322
osboxes@osboxes:~$ kill -HUP 18299
osboxes@osboxes:~$
```

System Monitor

Processes Resources File Systems

Q chrome pico firefox

Process Name	User	% CPU	ID	Memory	Disk read total	Disk write total	Disk read	Disk write	Priority
chrome	osboxes	0	19024	41.2 MB	5.0 MB	577.2 KB	N/A	14.0 MB/s	Normal
chrome-type-breaker	osboxes	0	19074	18.4 MB	N/A	N/A	N/A	N/A	Normal
chrome-type-gpu-process-field	osboxes	0	19062	29.5 MB	0.5 MB	4.0 KB	N/A	N/A	Normal
chrome-type-renderer-disable	osboxes	0	19081	19.6 MB	N/A	N/A	N/A	N/A	Normal
chrome-type-renderer-disable	osboxes	0	19335	15.3 MB	N/A	N/A	N/A	N/A	Normal
chrome-type-renderer-disable	osboxes	0	19083	25.9 MB	N/A	N/A	N/A	N/A	Normal
chrome-type-utility-field-trial	osboxes	0	19064	15.2 MB	336.0 KB	209.0 KB	N/A	N/A	Normal
chrome-type-zygote	osboxes	0	19039	12.0 MB	N/A	N/A	N/A	N/A	Normal
chrome-type-zygote	osboxes	0	19035	12.0 MB	968.0 KB	N/A	N/A	N/A	Normal
firefox	osboxes	0	19147	11.9 MB	1.9 MB	5.3 KB	26.7 KB/s	N/A	Normal
ssh-helper	osboxes	0	19036	568.0 KB	N/A	N/A	N/A	N/A	Normal
ps	osboxes	0	19300	776.0 KB	N/A	N/A	N/A	N/A	Normal
Web Content	osboxes	0	19310	14.1 MB	N/A	N/A	N/A	N/A	Normal
Web Content	osboxes	0	19209	33.5 MB	128.0 KB	N/A	N/A	N/A	Normal
WebExtensions	osboxes	0	19274	23.2 MB	N/A	N/A	N/A	N/A	Normal

```
osboxes@osboxes:~
File Edit View Search Terminal Help

osboxes@osboxes:~$ kill $(ps aux | grep 'firefox|chrome|pico' | awk '{print $2}')
bash: kill: (19017) - No such process
osboxes@osboxes:~$ kill $(ps aux | grep 'firefox|chrome|pico' | awk '{print $2}')
bash: kill: (19399) - No such process
osboxes@osboxes:~$
```

```
osboxes@osboxes:~
File Edit View Search Terminal Help

CPU: 0.7% Tasks: 140 250 Thr: 1.1%
Mem: 739M/1.9G Load average: 0.03 0.04 0.05
Swap: 130M/0.1G Uptime: 68:28:17

PID USER PRI NI VIRT RES SHR S CPU% MEM% TIME+ Command
651 avahi 20 0 47676 40 0 0 0 0.0 0.0 0:00.00 avahi-daemon: chroot helper
991 osboxes 20 0 144 0 0 0 0.0 0.0 0:00.00 (sd-pam)
```

System Monitor

Processes Resources File Systems

Q chrome pico firefox

Process Name	User	% CPU	ID	Memory	Disk read total	Disk write total	Disk read	Disk write	Priority
chrome	osboxes	0	19024	41.2 MB	5.0 MB	577.2 KB	N/A	14.0 MB/s	Normal
chrome-type-breaker	osboxes	0	19074	18.4 MB	N/A	N/A	N/A	N/A	Normal
chrome-type-gpu-process-field	osboxes	0	19062	29.5 MB	0.5 MB	4.0 KB	N/A	N/A	Normal
chrome-type-renderer-disable	osboxes	0	19081	19.6 MB	N/A	N/A	N/A	N/A	Normal
chrome-type-renderer-disable	osboxes	0	19335	15.3 MB	N/A	N/A	N/A	N/A	Normal
chrome-type-renderer-disable	osboxes	0	19083	25.9 MB	N/A	N/A	N/A	N/A	Normal
chrome-type-utility-field-trial	osboxes	0	19064	15.2 MB	336.0 KB	209.0 KB	N/A	N/A	Normal
chrome-type-zygote	osboxes	0	19039	12.0 MB	N/A	N/A	N/A	N/A	Normal
chrome-type-zygote	osboxes	0	19035	12.0 MB	968.0 KB	N/A	N/A	N/A	Normal
firefox	osboxes	0	19147	11.9 MB	1.9 MB	5.3 KB	26.7 KB/s	N/A	Normal
ssh-helper	osboxes	0	19036	568.0 KB	N/A	N/A	N/A	N/A	Normal
ps	osboxes	0	19300	776.0 KB	N/A	N/A	N/A	N/A	Normal
Web Content	osboxes	0	19310	14.1 MB	N/A	N/A	N/A	N/A	Normal
Web Content	osboxes	0	19209	33.5 MB	128.0 KB	N/A	N/A	N/A	Normal
WebExtensions	osboxes	0	19274	23.2 MB	N/A	N/A	N/A	N/A	Normal

```
osboxes@osboxes:~
File Edit View Search Terminal Help

osboxes@osboxes:~$ kill $(ps aux | grep 'firefox|chrome|pico' | awk '{print $2}')
bash: kill: (19017) - No such process
osboxes@osboxes:~$ kill $(ps aux | grep 'firefox|chrome|pico' | awk '{print $2}')
bash: kill: (19399) - No such process
osboxes@osboxes:~$
```

```
osboxes@osboxes:~
File Edit View Search Terminal Help

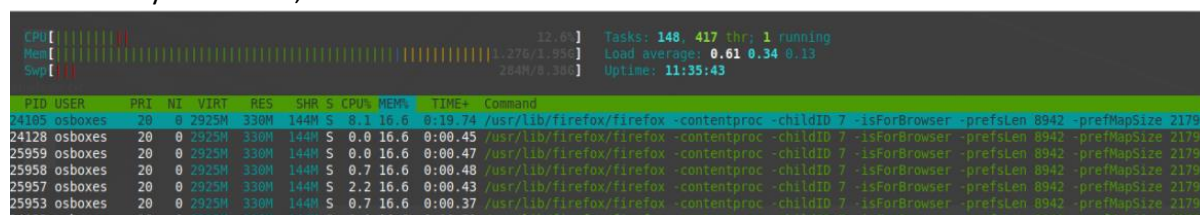
CPU: 0.7% Tasks: 140 250 Thr: 1.1%
Mem: 739M/1.9G Load average: 0.03 0.04 0.05
Swap: 130M/0.1G Uptime: 68:28:42

PID USER PRI NI VIRT RES SHR S CPU% MEM% TIME+ Command
651 avahi 20 0 47676 40 0 0 0.0 0.0 0:00.00 avahi-daemon: chroot helper
991 osboxes 20 0 144 0 0 0 0.0 0.0 0:00.00 (sd-pam)
```

```
*cronjobs [Read-Only] (/etc/cron.d)
File Edit View Search Tools Documents Help

*cronjobs *
1
2
3 58 8 * * 1 firefox http://www.iltalehti.fi
4 00 15 * * 3 sudo apt-get update && sudo apt-get update -y
5 55 23 * * * sudo mail -s "Varmuuskopiointi" julius.kerninen@gmail.com < /home/osboxes/varmuuskopioi.sh
6
7
8
9 # * * * * suoritetttava komento
10 #
11 # | | | | viikonpäivä (0 - 7) (0 tai 7 = sunnuntai)
12 # | | | | kuukausi (1 - 12)
13 # | | | | päivä (1 - 31)
14 # | | | | tunti (0 - 23)
15 # | | | | minuutti (0 - 59)
16 #
```

1. Eniten käyttää firefox, varmaan koska siinä on muutama tab auki

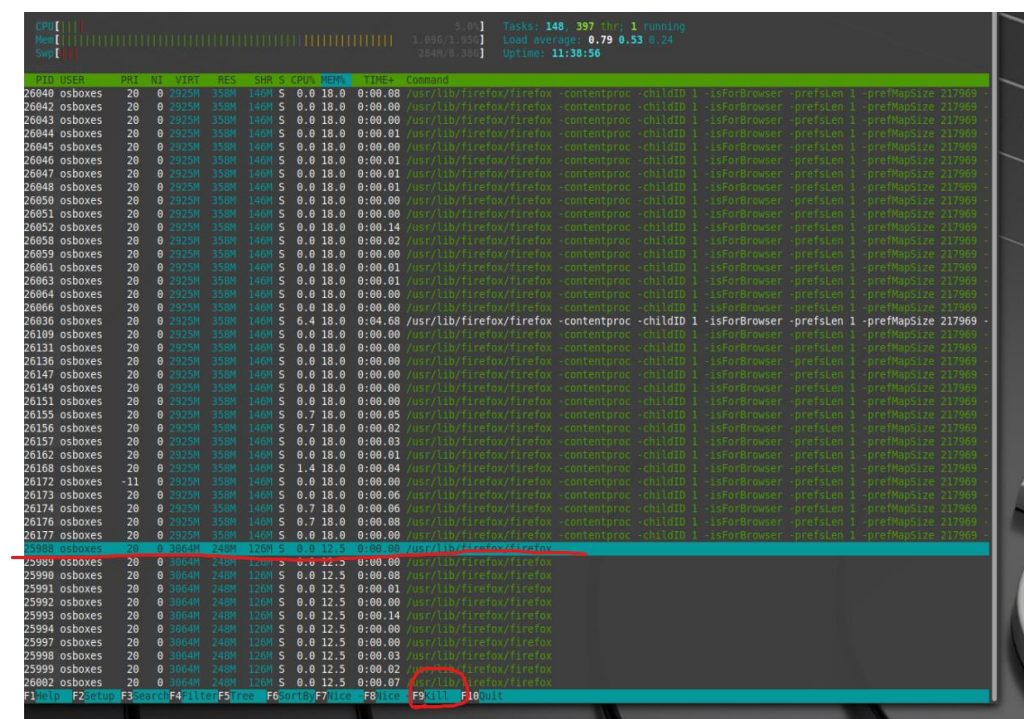


2. Myös firefox

3. 11h 38min 56sec

4. 1.09gb käytössä, kokonaisuudessaan 1.95gb

5. htopissa sovelluksen voi tappaa painikkeella F9



6. Luettu 5123MB ja kirjoitettu 7365MB

```
osboxes@osboxes:~$ iostat
Linux 4.15.0-54-generic (osboxes)      05/18/2020      _x86_64_      (1 CPU)

avg-cpu:  %user   %nice %system %iowait  %steal   %idle
           1,85    0,00    0,46    0,16    0,00   97,53

Device            tps    kB_read/s    kB_wrtn/s    kB_read    kB_wrtn
sda                9,44       130,27       185,80     5247738     7484344

osboxes@osboxes:~$ iostat -m
Linux 4.15.0-54-generic (osboxes)      05/18/2020      _x86_64_      (1 CPU)

avg-cpu:  %user   %nice %system %iowait  %steal   %idle
           1,84    0,00    0,46    0,16    0,00   97,54

Device            tps    MB_read/s    MB_wrtn/s    MB_read    MB_wrtn
sda                9,42         0,13         0,18        5124        7365

osboxes@osboxes:~$ iostat -p sda1 -m -x
Linux 4.15.0-54-generic (osboxes)      05/18/2020      _x86_64_      (1 CPU)

avg-cpu:  %user   %nice %system %iowait  %steal   %idle
           1,84    0,00    0,46    0,16    0,00   97,54

Device            r/s    w/s    rMB/s    wMB/s    rrqm/s    wrqm/s    %rrqm    %wrqm    r_await    w_await    aqu-sz    rareq-sz    wareq-sz    svctm
%util
sda1              0,34    0,34    0,34    0,34    0,00    0,00    0,00    0,00    0,00    0,00    0,00    0,00    0,00    0,00

osboxes@osboxes:~$ iostat -p sda -x
Linux 4.15.0-54-generic (osboxes)      05/18/2020      _x86_64_      (1 CPU)

avg-cpu:  %user   %nice %system %iowait  %steal   %idle
           1,84    0,00    0,46    0,16    0,00   97,54

Device            r/s    w/s    rMB/s    wMB/s    rrqm/s    wrqm/s    %rrqm    %wrqm    r_await    w_await    aqu-sz    rareq-sz    wareq-sz    svctm
%util
sda              5,51    3,90    129,79    186,53    0,31    8,92    5,28    69,60    0,73    2,35    0,01    23,54    47,85    0,37
sda4             0,54    0,61     6,80    19,61    0,01    1,02    2,62    62,74    0,58    0,88    0,00    12,59    32,36    0,43
sda2             0,02    0,03     0,72     3,24    0,00    0,05    3,54    61,25    0,35    2,82    0,00    28,92    111,64    0,48
sda3             0,08    0,04     0,83     5,87    0,05    1,43    35,97    97,40    0,88    2,48    0,00    10,31    153,63    0,90
sda1             4,85    2,29    121,02    157,79    0,25    6,43    4,85    73,74    0,75    3,57    0,01    24,97    68,93    0,37

osboxes@osboxes:~$
```

9. ip on 88.148.204.179

```
osboxes@osboxes:~$ ip addr
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:64:d6:15 brd ff:ff:ff:ff:ff:ff
    inet 88.148.204.179/18 brd 88.148.255.255 scope global dynamic noprefixroute enp0s3
        valid lft 13304sec preferred_lft 13304sec
    inet6 2001:14ba:9b00::2:83d1/128 scope global dynamic noprefixroute
        valid lft 17927sec preferred_lft 8927sec
    inet6 fe80::6740:da7c:c041:fc22/64 scope link noprefixroute
        valid lft forever preferred_lft forever
```

10. laurea.fi ip on 193.166.246.78

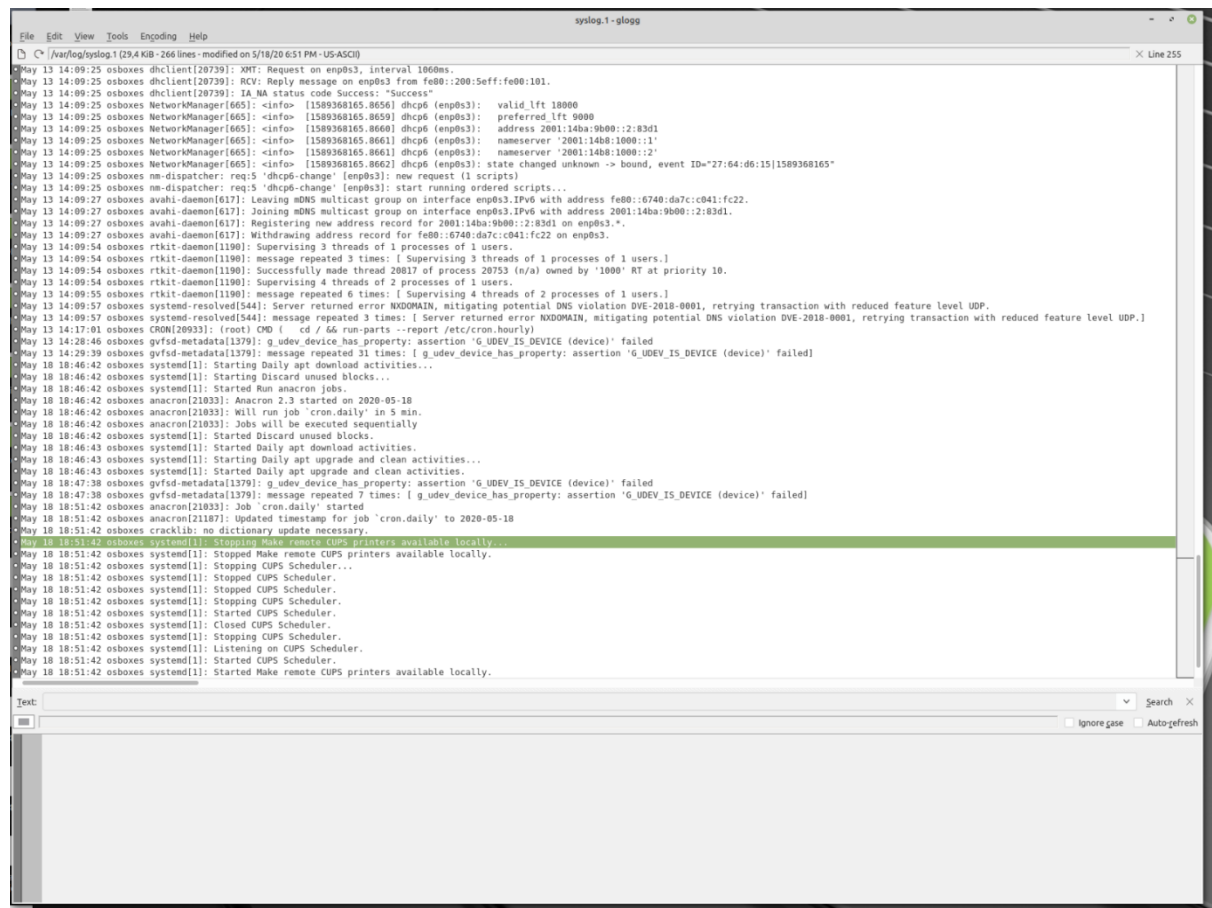
```
osboxes@osboxes:~$ ping www.laurea.fi
PING www.laurea.fi (193.166.246.78) 56(84) bytes of data.
64 bytes from 193.166.246.78 (193.166.246.78): icmp_seq=1 ttl=123 time=3.08 ms
64 bytes from 193.166.246.78 (193.166.246.78): icmp_seq=1 ttl=123 time=3.47 ms (DUP!)
64 bytes from 193.166.246.78 (193.166.246.78): icmp_seq=2 ttl=123 time=3.25 ms
64 bytes from 193.166.246.78 (193.166.246.78): icmp_seq=2 ttl=123 time=3.43 ms (DUP!)
64 bytes from 193.166.246.78 (193.166.246.78): icmp_seq=3 ttl=123 time=2.96 ms
64 bytes from 193.166.246.78 (193.166.246.78): icmp_seq=3 ttl=123 time=3.25 ms (DUP!)
64 bytes from 193.166.246.78 (193.166.246.78): icmp_seq=4 ttl=123 time=2.85 ms
64 bytes from 193.166.246.78 (193.166.246.78): icmp_seq=4 ttl=123 time=3.04 ms (DUP!)
64 bytes from 193.166.246.78 (193.166.246.78): icmp_seq=5 ttl=123 time=2.91 ms
64 bytes from 193.166.246.78 (193.166.246.78): icmp_seq=5 ttl=123 time=2.92 ms (DUP!)
^C
--- www.laurea.fi ping statistics ---
5 packets transmitted, 5 received, +5 duplicates, 0% packet loss, time 4005ms
rtt min/avg/max/mdev = 2.856/3.119/3.471/0.215 ms
osboxes@osboxes:~$
```

11. 8 reititintä

```
osboxes@osboxes:~$ traceroute www.laurea.fi
traceroute to www.laurea.fi (193.166.246.78), 30 hops max, 60 byte packets
 1 88-148-192-1.rev.dnainternet.fi (88.148.192.1) 1.663 ms 1.649 ms 1.807 ms
 2 hel5-tr1.dnaip.fi (62.78.125.244) 2.247 ms 2.443 ms 2.439 ms
 3 hel7-sr22.dnaip.fi (62.78.117.23) 3.917 ms 4.237 ms 4.212 ms
 4 hel5-tr1.dnaip.fi (62.78.117.22) 2.337 ms 2.311 ms 2.305 ms
 5 hel7-sr1.dnaip.fi (62.78.117.247) 2.477 ms hel1-sr1.dnaip.fi (62.78.121.210) 2.268 ms 2.250 ms
 6 csc.ficix1.ficix.fi (193.110.226.14) 2.525 ms csc.ficix2.ficix.fi (193.110.224.14) 2.337 ms 2.330 ms
 7 helsinki3-et-1-1-1-1.ip.funet.fi (86.50.255.247) 2.707 ms helsinki2-et-0-1-1-1.ip.funet.fi (86.50.255.251) 2.879 ms helsinki3-et-1-1-1-1.ip.funet.fi (86.50.255.247) 2.951 ms
 8 helsinki2-et-1-1-0-1.ip.funet.fi (86.50.255.248) 2.942 ms 2.913 ms *
 9 * * *
10 * * *
11 * * *
12 * * *
13 * * *
14 * * *
```

4.3.1

Latasin ohjelman glogg ja tämä näyttää ja kertoo tapahtumat selvästi. Paljon informaatiota esim cron tehtävien suorituksesta.



```
File Edit View Tools Encoding Help
syslog.1-glogg
[294 KiB - 266 lines - modified on 5/18/20 6:51 PM - UTF-8]
May 13 14:09:25 osboxes dhclient[20739]: XRT: Request on enp0s3, interval 1660ms.
May 13 14:09:25 osboxes dhclient[20739]: RCV: Reply message on enp0s3 from fe80::200:5eff:fe00:101.
May 13 14:09:25 osboxes dhclient[20739]: IA NA status code Success: "Success"
May 13 14:09:25 osboxes NetworkManager[665]: <info> [1589368165.8659] dhcp6 (enp0s3): valid lft 18000
May 13 14:09:25 osboxes NetworkManager[665]: <info> [1589368165.8659] dhcp6 (enp0s3): preferred lft 9000
May 13 14:09:25 osboxes NetworkManager[665]: <info> [1589368165.8660] dhcp6 (enp0s3): address 2001:14ba:9b00::2:83d1
May 13 14:09:25 osboxes NetworkManager[665]: <info> [1589368165.8661] dhcp6 (enp0s3): nameserver '2001:14b8:1000::1'
May 13 14:09:25 osboxes NetworkManager[665]: <info> [1589368165.8661] dhcp6 (enp0s3): nameserver '2001:14b8:1000::2'
May 13 14:09:25 osboxes NetworkManager[665]: <info> [1589368165.8662] dhcp6 (enp0s3): state changed unknown -> bound, event ID="27:64:d6:15|1589368165"
May 13 14:09:25 osboxes nm-dispatcher: req:5 'dhcp6-change' [enp0s3]: new request (1 scripts)
May 13 14:09:25 osboxes nm-dispatcher: req:5 'dhcp6-change' [enp0s3]: start running ordered scripts...
May 13 14:09:27 osboxes avahi-daemon[617]: Leaving mDNS multicast group on interface enp0s3.IPv6 with address fe80::6740:da7c:c041:fc22.
May 13 14:09:27 osboxes avahi-daemon[617]: Joining mDNS multicast group on interface enp0s3.IPv6 with address 2001:14ba:9b00::2:83d1.
May 13 14:09:27 osboxes avahi-daemon[617]: Registering new address record for 2001:14ba:9b00::2:83d1 on enp0s3.
May 13 14:09:27 osboxes avahi-daemon[617]: Withdrawing address record for fe80::6740:da7c:c041:fc22 on enp0s3.
May 13 14:09:54 osboxes rtkit-daemon[1190]: Supervising 3 threads of 1 processes of 1 users.
May 13 14:09:54 osboxes rtkit-daemon[1190]: message repeated 3 times: [ Supervising 3 threads of 1 processes of 1 users. ]
May 13 14:09:54 osboxes rtkit-daemon[1190]: Successfully made thread 20817 of process 20753 (n/a) owned by '1000' RT at priority 10.
May 13 14:09:54 osboxes rtkit-daemon[1190]: Supervising 4 threads of 2 processes of 1 users.
May 13 14:09:55 osboxes rtkit-daemon[1190]: message repeated 6 times: [ Supervising 4 threads of 2 processes of 1 users. ]
May 13 14:09:55 osboxes systemd-resolved[544]: Server returned error NXDOMAIN, mitigating potential DNS violation DVE-2018-0001, retrying transaction with reduced feature level UDP.
May 13 14:09:57 osboxes systemd-resolved[544]: message repeated 3 times: [ Server returned error NXDOMAIN, mitigating potential DNS violation DVE-2018-0001, retrying transaction with reduced feature level UDP. ]
May 13 14:17:01 osboxes CRON[20933]: (root) CMD ( cd / 66 run-parts --report /etc/cron.hourly)
May 13 14:20:46 osboxes gvfnd-metadatal[1379]: g_udev_device has property: assertion 'G_UDEV_IS_DEVICE (device)' failed
May 13 14:29:39 osboxes gvfnd-metadatal[1379]: message repeated 31 times: [ g_udev_device has property: assertion 'G_UDEV_IS_DEVICE (device)' failed ]
May 18 18:46:42 osboxes systemd[1]: Starting Daily apt download activities...
May 18 18:46:42 osboxes systemd[1]: Starting Discard unused blocks...
May 18 18:46:42 osboxes systemd[1]: Started Run anacron jobs.
May 18 18:46:42 osboxes anacron[21033]: Anacron 2.3 started on 2020-05-18
May 18 18:46:42 osboxes anacron[21033]: Will run job 'cron.daily' in 5 min.
May 18 18:46:42 osboxes anacron[21033]: Jobs will be executed sequentially
May 18 18:46:42 osboxes systemd[1]: Started Discard unused blocks.
May 18 18:46:42 osboxes systemd[1]: Started Daily apt download activities.
May 18 18:46:43 osboxes systemd[1]: Starting Daily apt upgrade and clean activities...
May 18 18:46:43 osboxes systemd[1]: Started Daily apt upgrade and clean activities.
May 18 18:47:38 osboxes gvfnd-metadatal[1379]: g_udev_device has property: assertion 'G_UDEV_IS_DEVICE (device)' failed
May 18 18:47:38 osboxes gvfnd-metadatal[1379]: message repeated 7 times: [ g_udev_device has property: assertion 'G_UDEV_IS_DEVICE (device)' failed ]
May 18 18:51:42 osboxes anacron[21033]: Job 'cron.daily' started
May 18 18:51:42 osboxes anacron[21033]: Updated timestamp for job 'cron.daily' to 2020-05-18
May 18 18:51:42 osboxes cracklib: no dictionary update necessary.
May 18 18:51:42 osboxes systemd[1]: Stopping Make remote CUPS printers available locally...
May 18 18:51:42 osboxes systemd[1]: Stopped Make remote CUPS printers available locally.
May 18 18:51:42 osboxes systemd[1]: Stopping CUPS Scheduler...
May 18 18:51:42 osboxes systemd[1]: Stopped CUPS Scheduler.
May 18 18:51:42 osboxes systemd[1]: Stopped CUPS Scheduler.
May 18 18:51:42 osboxes systemd[1]: Stopping CUPS Scheduler.
May 18 18:51:42 osboxes systemd[1]: Started CUPS Scheduler.
May 18 18:51:42 osboxes systemd[1]: Closed CUPS Scheduler.
May 18 18:51:42 osboxes systemd[1]: Stopping CUPS Scheduler.
May 18 18:51:42 osboxes systemd[1]: Listening on CUPS Scheduler.
May 18 18:51:42 osboxes systemd[1]: Started CUPS Scheduler.
May 18 18:51:42 osboxes systemd[1]: Started Make remote CUPS printers available locally.
```