

# Raspberry Pi (Debian)

- Fresh installation of Raspbian (RaspOS)
- Hostname

# Fresh installation of Raspberian (RaspOS)

What is inside ?

```
free -h  
df -hT | sort
```

```
anton@ku5mon1:~ $ df -hT  
Filesystem      Type      Size  Used Avail Use% Mounted on  
udev            devtmpfs  189M   0  189M   0% /dev  
tmpfs           tmpfs     182M  4.2M  178M   3% /run  
/dev/mmcblk0p2 ext4       29G   3.0G   25G  11% /  
tmpfs           tmpfs     454M   0  454M   0% /dev/shm  
tmpfs           tmpfs     5.0M   16K   5.0M   1% /run/lock  
tmpfs           tmpfs     1.0M   0   1.0M   0% /run/credentials/systemd-journald.service  
tmpfs           tmpfs     454M   0  454M   0% /tmp  
/dev/mmcblk0p1 vfat      510M   75M  436M  15% /boot/firmware  
tmpfs           tmpfs     91M   16K   91M   1% /run/user/1000  
tmpfs           tmpfs     1.0M   0   1.0M   0% /run/credentials/getty@tty1.service  
tmpfs           tmpfs     1.0M   0   1.0M   0% /run/credentials/serial-getty@ttyS0.service  
tmpfs           tmpfs     91M   8.0K   91M   1% /run/user/0  
anton@ku5mon1:~ $ free -h  
              total        used        free      shared  buff/cache   available  
Mem:           906Mi         231Mi         90Mi         4.2Mi         653Mi         675Mi  
Swap:          905Mi           0B          905Mi
```

Lite (no-GUI)

```
root@omi1jump1:/home/anton# free -h  
              total        used        free      shared  buff/cache   available  
Mem:           906Mi         170Mi         338Mi         4.0Mi         455Mi         735Mi  
Swap:          905Mi           0B          905Mi  
root@omi1jump1:/home/anton#  
root@omi1jump1:/home/anton# df -hT | sort  
/dev/mmcblk0p1 vfat      510M   74M  437M  15% /boot/firmware  
/dev/mmcblk0p2 ext4       29G   2.8G   25G  10% /  
Filesystem      Type      Size  Used Avail Use% Mounted on  
tmpfs           tmpfs     1.0M   0   1.0M   0% /run/credentials/getty@tty1.service  
tmpfs           tmpfs     1.0M   0   1.0M   0% /run/credentials/serial-getty@ttyS0.service  
tmpfs           tmpfs     1.0M   0   1.0M   0% /run/credentials/systemd-journald.service  
tmpfs           tmpfs     182M  4.0M  178M   3% /run  
tmpfs           tmpfs     454M   0  454M   0% /dev/shm  
tmpfs           tmpfs     454M   0  454M   0% /tmp  
tmpfs           tmpfs     5.0M   12K   5.0M   1% /run/lock  
tmpfs           tmpfs     91M   8.0K   91M   1% /run/user/0  
tmpfs           tmpfs     91M   8.0K   91M   1% /run/user/1000  
udev            devtmpfs  317M   0  317M   0% /dev  
root@omi1jump1:/home/anton#
```

Full Raspberian

```

root@rnk1jump1:/home/anton# free -h
              total        used         free       shared  buff/cache   available
Mem:          7.6Gi         508Mi         6.5Gi          29Mi          756Mi          7.1Gi
Swap:         2.0Gi           0B           2.0Gi
root@rnk1jump1:/home/anton# df -hT | sort
/dev/mmcbk0p1 vfat      505M    79M    427M    16% /boot/firmware
/dev/mmcbk0p2 ext4     29G    9.6G    18G    35% /
Filesystem     Type      Size  Used Avail Use% Mounted on
tmpfs          tmpfs     1.0M    0    1.0M    0% /run/credentials/getty@tty1.service
tmpfs          tmpfs     1.0M    0    1.0M    0% /run/credentials/serial-getty@ttyS0.service
tmpfs          tmpfs     1.0M    0    1.0M    0% /run/credentials/systemd-journald.service
tmpfs          tmpfs     1.6G    9.1M  1.6G    1% /run
tmpfs          tmpfs     3.9G   212K  3.9G    1% /dev/shm
tmpfs          tmpfs     3.9G    4.0K  3.9G    1% /tmp
tmpfs          tmpfs     5.0M   16K   5.0M    1% /run/lock
tmpfs          tmpfs     783M   56K   783M    1% /run/user/0
tmpfs          tmpfs     783M   68K   782M    1% /run/user/1000
udev           devtmpfs  3.6G    0    3.6G    0% /dev

```

Add yourself privileged access

```

sudo su
nano /etc/sudoers.d/099_anton

```

```

anton ALL=(ALL:ALL) NOPASSWD: ALL

```

Verify (valuable is last command)

```

sudo -l -U anton

```

```

root@rnk1jump1:/home/anton# nano /etc/sudoers.d/099_anton
root@rnk1jump1:/home/anton# sudo -l -U anton
Matching Defaults entries for anton on rnk1jump1:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin,
    use_pty, env_keep+=NO_AT_BRIDGE, env_keep+=DPKG_DEB_THREADS_MAX, timestamp_type=global,
    env_keep+="http_proxy HTTP_PROXY", env_keep+="https_proxy HTTPS_PROXY", env_keep+="ftp_proxy FTP_PROXY",
    env_keep+=RSYNC_PROXY, env_keep+="no_proxy NO_PROXY"

User anton may run the following commands on rnk1jump1:
    (ALL : ALL) ALL
    (ALL : ALL) NOPASSWD: ALL
root@rnk1jump1:/home/anton# exit
exit
anton@rnk1jump1:~$ sudo su
root@rnk1jump1:/home/anton# id
uid=0(root) gid=0(root) groups=0(root)
root@rnk1jump1:/home/anton#

```

Install tmux (screen)

```

sudo su
apt install tmux

exit

tmux

```

```
sudo su
```

## Install tools, utils

```
apt install \  
  tcpdump \  
  ncdud \  
  htop \  
  tcptraceroute
```

## Update

```
apt update  
apt upgrade
```

## Remove not essential

```
apt remove \  
  libcamera-ipa \  
  libpicam-app1 \  
  rpicas-apps-core
```

Is it worth to clean up for 8 MB? (need to search for memory consuming useless services.)

```
Summary:  
  Upgrading: 0, Installing: 0, Removing: 5, Not Upgrading: 0  
  Freed space: 9,299 kB
```

## Reboot

```
shutdown -r now
```

# rpi-connect

(installed during rpi-writer)

rustdesk

duckdns

icinga agent

# Hostname

Disbale cloud-init (which overwrites everyboot, not the first only)

```
touch /etc/cloud/cloud-init.disabled
```

Set new hostname

```
hostnamectl set-hostname ku5mon1
```

```
root@km6jump1:/home/anton# ls -la /etc/cloud/cloud-init.disabled
ls: cannot access '/etc/cloud/cloud-init.disabled': No such file or directory
root@km6jump1:/home/anton# touch /etc/cloud/cloud-init.disabled
root@km6jump1:/home/anton# ls -la /etc/cloud/cloud-init.disabled
-rw-r--r-- 1 root root 0 Feb 27 17:04 /etc/cloud/cloud-init.disabled
root@km6jump1:/home/anton# ls -la /etc/cloud/
total 32
drwxr-xr-x  5 root root 4096 Feb 27 17:04 .
drwxr-xr-x 133 root root 12288 Feb 27 17:02 ..
drwxr-xr-x  2 root root 4096 Oct 20 13:16 clean.d
-rw-r--r--  1 root root 2465 Oct 20 13:16 cloud.cfg
drwxr-xr-x  2 root root 4096 Dec  4 17:41 cloud.cfg.d
-rw-r--r--  1 root root  0 Feb 27 17:04 cloud-init.disabled
drwxr-xr-x  2 root root 4096 Dec  4 17:41 templates
root@km6jump1:/home/anton# hostnamectl set-hostname ku5mon1
root@km6jump1:/home/anton#
exit
anton@km6jump1:~ $
logout
Connection to 192.168.1.33 closed.
anton-pvt@ant1mba2 ~ % ssh anton@192.168.1.33
anton@192.168.1.33's password:
Linux ku5mon1 6.12.62+rpt-rpi-v8 #1 SMP PREEMPT Debian 1:6.12.62-1+rpt1 (2025-12-18) aarch64

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Fri Feb 27 17:04:10 2026 from 192.168.1.34
anton@ku5mon1:~ $
```

```
shutdown -r now
```