

### 1. создать виртуальный диск

```
taiitga@raw:~$ df
Filesystem      1K-blocks    Used Available Use% Mounted on
tmpfs            203144      1368    201776   1% /run
/dev/sda3       9735476 6503356   2717868  71% /
tmpfs           1015712        0   1015712   0% /dev/shm
tmpfs            5120         4     5116   1% /run/lock
tmpfs            4096         0     4096   0% /sys/fs/cgroup
/dev/sda2       524272     7988   516284   2% /boot/efi
tmpfs           203140      108   203032   1% /run/user/1000
/dev/loop10     1983056    6000   1858272   1% /mnt/virtualdisk
```

### 2. на диске создать 8 разделов размером 189 Мбайт используя MBR запись

```
Disk /dev/loop10: 1,95 GiB, 2097152000 bytes, 4096000 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: 0x4904be93

Device           Boot    Start        End    Sectors    Size Id Type
/dev/loop10p1                2048    4095999    4093952     2G  5 Extended
/dev/loop10p5                 4096     391167    387072    189M  83 Linux
/dev/loop10p6                393216     780287    387072    189M  83 Linux
/dev/loop10p7                782336    1169407    387072    189M  83 Linux
/dev/loop10p8               1171456    1558527    387072    189M  83 Linux
/dev/loop10p9               1560576    1947647    387072    189M  83 Linux
/dev/loop10p10              1949696    2336767    387072    189M  83 Linux
/dev/loop10p11              2338816    2725887    387072    189M  83 Linux
/dev/loop10p12             2727936    3115007    387072    189M  83 Linux
```

### 3. на одном из разделов создать файловую систему NTFS (размер блока 4096 байт)

```
taiitga@raw:/mnt/virtualdisk$ sudo mkfs.ntfs -s 4096 /dev/loop10p5
The partition start sector was not specified for /dev/loop10p5 and it could not be obtained automatically. It has been set to 0.
The number of sectors per track was not specified for /dev/loop10p5 and it could not be obtained automatically. It has been set to 0.
The number of heads was not specified for /dev/loop10p5 and it could not be obtained automatically. It has been set to 0.
Cluster size has been automatically set to 4096 bytes.
To boot from a device, Windows needs the 'partition start sector', the 'sectors per track' and the 'number of heads' to be set.
Windows will not be able to boot from this device.
Initializing device with zeroes: 100% - Done.
Creating NTFS volume structures.
mkntfs completed successfully. Have a nice day.
```

```

taiiiga@raw:/mnt/virtualdisk$ sudo lsblk -f
NAME            FSTYPE     FSVER LABEL UUID                                FSAVAIL FSUSE% MOUNTPOINT
loop0            squashfs   4.0                                0      100% /snap/core18/1988
loop1            squashfs   4.0                                0      100% /snap/core18/1885
loop2            squashfs   4.0                                0      100% /snap/gnome-3-34-1804/60
loop3            squashfs   4.0                                0      100% /snap/gnome-3-34-1804/66
loop4            squashfs   4.0                                0      100% /snap/gtk-common-themes/1514
loop5            squashfs   4.0                                0      100% /snap/snap-store/481
loop6            squashfs   4.0                                0      100% /snap/snap-store/518
loop7            squashfs   4.0                                0      100% /snap/snapd/11036
loop8            squashfs   4.0                                0      100% /snap/gtk-common-themes/1506
loop9            squashfs   4.0                                0      100% /snap/snapd/9721
loop10
├─loop10p1
├─loop10p5      ntfs              4F029D672A8E6A0C
├─loop10p6
├─loop10p7
├─loop10p8
├─loop10p9
├─loop10p10
├─loop10p11
└─loop10p12
sda
├─sda1
├─sda2      vfat      FAT32      CD57-8907      504,2M      2% /boot/efi
└─sda3      ext4      1.0         5d168e49-e2d2-4f75-8196-4fdbac6470ef  2,3G      70% /
sr0

```

4. на одном из разделов создать файловую систему FAT32

```

taiiiga@raw:/mnt/virtualdisk$ sudo mkfs.fat -F32 /dev/loop10p6
mkfs.fat 4.1 (2017-01-24)
taiiiga@raw:/mnt/virtualdisk$ sudo lsblk -f
NAME            FSTYPE     FSVER LABEL UUID                                FSAVAIL FSUSE% MOUNTPOINT
loop0            squashfs   4.0                                0      100% /snap/core18/1988
loop1            squashfs   4.0                                0      100% /snap/core18/1885
loop2            squashfs   4.0                                0      100% /snap/gnome-3-34-1804/60
loop3            squashfs   4.0                                0      100% /snap/gnome-3-34-1804/66
loop4            squashfs   4.0                                0      100% /snap/gtk-common-themes/1514
loop5            squashfs   4.0                                0      100% /snap/snap-store/481
loop6            squashfs   4.0                                0      100% /snap/snap-store/518
loop7            squashfs   4.0                                0      100% /snap/snapd/11036
loop8            squashfs   4.0                                0      100% /snap/gtk-common-themes/1506
loop9            squashfs   4.0                                0      100% /snap/snapd/9721
loop10
├─loop10p1
├─loop10p5      ntfs              4F029D672A8E6A0C
├─loop10p6      vfat      FAT32      0C81-8E76
├─loop10p7
├─loop10p8
├─loop10p9
├─loop10p10
├─loop10p11
└─loop10p12
sda
├─sda1
├─sda2      vfat      FAT32      CD57-8907      504,2M      2% /boot/efi
└─sda3      ext4      1.0         5d168e49-e2d2-4f75-8196-4fdbac6470ef  2,3G      70% /
sr0

```

5. на одном из разделов создать файловую систему EXT2 (размер блока 4096 байт)

```

taiiiga@raw:/mnt/virtualdisk$ sudo mkfs.ext2 -s 4096 /dev/loop10p7
mke2fs 1.45.6 (20-Mar-2020)
Discarding device blocks: done
Creating filesystem with 48384 4k blocks and 48384 inodes
Filesystem UUID: 7eb4b20d-a0b2-4439-a6b4-fd7f1d3851fc
Superblock backups stored on blocks:
    32768

Allocating group tables: done
Writing inode tables: done
Writing superblocks and filesystem accounting information: done

```



```

tailiga@raw:/mnt/virtualdisk$ sudo lsblk -f
NAME                FSTYPE  FSVER LABEL UUID                                FSAVAIL FSUSE% MOUNTPOINT
loop0               squashfs 4.0                                0      100% /snap/core18/1988
loop1               squashfs 4.0                                0      100% /snap/core18/1885
loop2               squashfs 4.0                                0      100% /snap/gnome-3-34-1804/60
loop3               squashfs 4.0                                0      100% /snap/gnome-3-34-1804/66
loop4               squashfs 4.0                                0      100% /snap/gtk-common-themes/1514
loop5               squashfs 4.0                                0      100% /snap/snap-store/481
loop6               squashfs 4.0                                0      100% /snap/snap-store/518
loop7               squashfs 4.0                                0      100% /snap/snapd/11036
loop8               squashfs 4.0                                0      100% /snap/gtk-common-themes/1506
loop9               squashfs 4.0                                0      100% /snap/snapd/9721
loop10
├─loop10p1
├─loop10p5 ntfs      4F029D672A8E6A0C
├─loop10p6 vfat      FAT32      0C81-8E76
├─loop10p7 ext2      1.0          7eb4b20d-a0b2-4439-a6b4-fd7f1d3851fc
├─loop10p8
├─loop10p9
├─loop10p10
├─loop10p11
└─loop10p12
sda
├─sda1
├─sda2 vfat      FAT32      CD57-8907      504,2M      2% /boot/efi
└─sda3 ext4      1.0          5d168e49-e2d2-4f75-8196-4fdbac6470ef 2,3G      70% /
sr0

```

6. на одном из разделов создать файловую систему EXT3, включить журналирование данных, не только метаданных (размер блока 4096 байт)

```

tailiga@raw:/mnt/virtualdisk$ sudo mkfs.ext3 -s 4096 /dev/loop10p8
mke2fs 1.45.6 (20-Mar-2020)
Discarding device blocks: done
Creating filesystem with 48384 4k blocks and 48384 inodes
Filesystem UUID: d7894374-9844-4cf3-88ad-af730e6f44fb
Superblock backups stored on blocks:
    32768

Allocating group tables: done
Writing inode tables: done
Creating journal (4096 blocks): done
Writing superblocks and filesystem accounting information: done

```

```

tailiga@raw:/mnt/virtualdisk$ lsblk -f
NAME                FSTYPE  FSVER LABEL UUID                                FSAVAIL FSUSE% MOUNTPOINT
loop0               squashfs 4.0                                0      100% /snap/core18/1988
loop1               squashfs 4.0                                0      100% /snap/core18/1885
loop2               squashfs 4.0                                0      100% /snap/gnome-3-34-1804/60
loop3               squashfs 4.0                                0      100% /snap/gnome-3-34-1804/66
loop4               squashfs 4.0                                0      100% /snap/gtk-common-themes/1514
loop5               squashfs 4.0                                0      100% /snap/snap-store/481
loop6               squashfs 4.0                                0      100% /snap/snap-store/518
loop7               squashfs 4.0                                0      100% /snap/snapd/11036
loop8               squashfs 4.0                                0      100% /snap/gtk-common-themes/1506
loop9               squashfs 4.0                                0      100% /snap/snapd/9721
loop10
├─loop10p1
├─loop10p5 ntfs      4F029D672A8E6A0C
├─loop10p6 vfat      FAT32      0C81-8E76
├─loop10p7 ext2      1.0          7eb4b20d-a0b2-4439-a6b4-fd7f1d3851fc
├─loop10p8 ext3      1.0          d7894374-9844-4cf3-88ad-af730e6f44fb
├─loop10p9
├─loop10p10
├─loop10p11
└─loop10p12
sda
├─sda1
├─sda2 vfat      FAT32      CD57-8907      504,2M      2% /boot/efi
└─sda3 ext4      1.0          5d168e49-e2d2-4f75-8196-4fdbac6470ef 2,3G      70% /
sr0

```

```

tailiga@raw:/mnt/virtualdisk$ sudo tune2fs -o has_journal -o journal_data /dev/loop10p8
tune2fs 1.45.6 (20-Mar-2020)
tailiga@raw:/mnt/virtualdisk$ sudo tune2fs -l /dev/loop10p8 | grep features
Filesystem features:      has_journal ext_attr resize_inode dir_index filetype sparse_super large_file

```

7. на одном из разделов создать файловую систему EXT4, включить журналирование данных, не только метаданных (размер блока 4096 байт)

```
taiiga@raw:/mnt/virtualdisk$ sudo mkfs.ext4 -s 4096 /dev/loop10p9
mke2fs 1.45.6 (20-Mar-2020)
Discarding device blocks: done
Creating filesystem with 48384 4k blocks and 48384 inodes
Filesystem UUID: 14e33af1-a080-4452-b0f3-c272cb8fad24
Superblock backups stored on blocks:
    32768

Allocating group tables: done
Writing inode tables: done
Creating journal (4096 blocks): done
Writing superblocks and filesystem accounting information: done
```

```
taiiga@raw:/mnt/virtualdisk$ lsblk -f
```

NAME	FSTYPE	FSVER	LABEL	UUID	FSAVAIL	FSUSE%	MOUNTPOINT
loop0	squashfs	4.0			0	100%	/snap/core18/1988
loop1	squashfs	4.0			0	100%	/snap/core18/1885
loop2	squashfs	4.0			0	100%	/snap/gnome-3-34-1804/60
loop3	squashfs	4.0			0	100%	/snap/gnome-3-34-1804/66
loop4	squashfs	4.0			0	100%	/snap/gtk-common-themes/1514
loop5	squashfs	4.0			0	100%	/snap/snap-store/481
loop6	squashfs	4.0			0	100%	/snap/snap-store/518
loop7	squashfs	4.0			0	100%	/snap/snapd/11036
loop8	squashfs	4.0			0	100%	/snap/gtk-common-themes/1506
loop9	squashfs	4.0			0	100%	/snap/snapd/9721
loop10							
└loop10p1							
└loop10p5	ntfs			4F029D672A8E6A0C			
└loop10p6	vfat	FAT32		0C81-8E76			
└loop10p7	ext2	1.0		7eb4b20d-a0b2-4439-a6b4-fd7f1d3851fc			
└loop10p8	ext3	1.0		d7894374-9844-4cf3-88ad-af730e6f44fb			
└loop10p9	ext4	1.0		14e33af1-a080-4452-b0f3-c272cb8fad24			
└loop10p10							
└loop10p11							
└loop10p12							
sda							
└sda1							
└sda2	vfat	FAT32		CD57-8907	504,2M	2%	/boot/efi
└sda3	ext4	1.0		5d168e49-e2d2-4f75-8196-4fdbac6470ef	2,3G	70%	/
sr0							

```
taiiga@raw:/mnt/virtualdisk$ sudo tune2fs -l /dev/loop10p9 | grep features
Filesystem features:      has_journal ext_attr resize_inode dir_index filetype extent 64bit flex_bg sparse_super large_file huge_file dir_nli
nk extra_isize metadata_csum
```

8. на одном из разделов создать файловую систему Btrfs



```

tailiga@raw:/mnt/virtualdisk$ sudo mkfs.btrfs /dev/loop10p10
btrfs-progs v5.7
See http://btrfs.wiki.kernel.org for more information.

Label:                (null)
UUID:                 9cff7a1b-f286-4541-b78c-9b2fa04a0139
Node size:            16384
Sector size:         4096
Filesystem size:      189.00MiB
Block group profiles:
  Data:               single                  8.00MiB
  Metadata:           DUP                    32.00MiB
  System:             DUP                     8.00MiB
SSD detected:         no
Incompat features:    extref, skinny-metadata
Runtime features:
Checksum:             crc32c
Number of devices:    1
Devices:
  ID        SIZE  PATH
  1        189.00MiB /dev/loop10p10

```

```

tailiga@raw:/mnt/virtualdisk$ lsblk -f
NAME        FSTYPE FSVER LABEL UUID                               FSAVAIL FSUSE% MOUNTPOINT
loop0       squashfs 4.0
loop1       squashfs 4.0
loop2       squashfs 4.0
loop3       squashfs 4.0
loop4       squashfs 4.0
loop5       squashfs 4.0
loop6       squashfs 4.0
loop7       squashfs 4.0
loop8       squashfs 4.0
loop9       squashfs 4.0
loop10
├─loop10p1
├─loop10p5 ntfs      4F029D672A8E6A0C
├─loop10p6 vfat      FAT32    0C81-8E76
├─loop10p7 ext2      1.0        7eb4b20d-a0b2-4439-a6b4-fd7f1d3851fc
├─loop10p8 ext3      1.0        d7894374-9844-4cf3-88ad-af730e6f44fb
├─loop10p9 ext4      1.0        14e33af1-a080-4452-b0f3-c272cb8fad24
├─loop10p10 btrfs     9cff7a1b-f286-4541-b78c-9b2fa04a0139
├─loop10p11
└─loop10p12
sda
├─sda1
├─sda2 vfat      FAT32    CD57-8907          504,2M    2% /boot/efi
├─sda3 ext4      1.0      5d168e49-e2d2-4f75-8196-4fdbac6470ef 2,3G     70% /
sr0

```

9. на одном из разделов создать файловую систему xfs

```

tailiga@raw:/mnt/virtualdisk$ sudo mkfs.xfs /dev/loop10p11
meta-data=/dev/loop10p11      isize=512    agcount=4, agsize=12096 blks
      =                       sectsz=512    attr=2, projid32bit=1
      =                       crc=1        finobt=1, sparse=1, rmapbt=0
      =                       reflink=1
data      =                       bsize=4096    blocks=48384, imaxpct=25
      =                       sunit=0      swidth=0 blks
naming    =version 2          bsize=4096    ascii-ci=0, ftype=1
log       =internal log      bsize=4096    blocks=1368, version=2
      =                       sectsz=512    sunit=0 blks, lazy-count=1
realtime  =none              extsz=4096    blocks=0, rtextents=0
Discarding blocks...Done.

```

```

taiiiga@raw:/mnt/virtualdisk$ lsblk -f
NAME                FSTYPE  FSVER LABEL UUID                                FSAVAIL FSUSE% MOUNTPOINT
loop0               squashfs 4.0                                0       100% /snap/core18/1988
loop1               squashfs 4.0                                0       100% /snap/core18/1885
loop2               squashfs 4.0                                0       100% /snap/gnome-3-34-1804/60
loop3               squashfs 4.0                                0       100% /snap/gnome-3-34-1804/66
loop4               squashfs 4.0                                0       100% /snap/gtk-common-themes/1514
loop5               squashfs 4.0                                0       100% /snap/snap-store/481
loop6               squashfs 4.0                                0       100% /snap/snap-store/518
loop7               squashfs 4.0                                0       100% /snap/snapd/11036
loop8               squashfs 4.0                                0       100% /snap/gtk-common-themes/1506
loop9               squashfs 4.0                                0       100% /snap/snapd/9721
loop10
├─loop10p1
├─loop10p5          ntfs                    4F029D672A8E6A0C
├─loop10p6          vfat                   FAT32           0C81-8E76
├─loop10p7          ext2                   1.0             7eb4b20d-a0b2-4439-a6b4-fd7f1d3851fc
├─loop10p8          ext3                   1.0             d7894374-9844-4cf3-88ad-af730e6f44fb
├─loop10p9          ext4                   1.0             14e33af1-a080-4452-b0f3-c272cb8fad24
├─loop10p10         btrfs                 9cff7a1b-f286-4541-b78c-9b2fa04a0139
├─loop10p11         xfs                   5a23cc75-be34-4bc9-ab18-ff103d76ea48
└─loop10p12
sda
├─sda1
├─sda2              vfat                   FAT32           CD57-8907           504,2M    2% /boot/efi
└─sda3              ext4                   1.0             5d168e49-e2d2-4f75-8196-4fdbac6470ef    2,3G     70% /
sr0

```

10. монтировать все разделы в подкаталоги каталога  
/mnt/фамилия/название файловой системы

```

taiiiga@raw:/mnt/virtualdisk$ sudo mkdir /mnt/Khisamov
taiiiga@raw:/mnt/virtualdisk$ sudo mkdir /mnt/Khisamov/ntfs
taiiiga@raw:/mnt/virtualdisk$ sudo mount -t ntfs /dev/loop10p5 /mnt/Khisamov/ntfs
taiiiga@raw:/mnt/virtualdisk$ lsblk -f
NAME                FSTYPE  FSVER LABEL UUID                                FSAVAIL FSUSE% MOUNTPOINT
loop0               squashfs 4.0                                0       100% /snap/core18/1988
loop1               squashfs 4.0                                0       100% /snap/core18/1885
loop2               squashfs 4.0                                0       100% /snap/gnome-3-34-1804/60
loop3               squashfs 4.0                                0       100% /snap/gnome-3-34-1804/66
loop4               squashfs 4.0                                0       100% /snap/gtk-common-themes/1514
loop5               squashfs 4.0                                0       100% /snap/snap-store/481
loop6               squashfs 4.0                                0       100% /snap/snap-store/518
loop7               squashfs 4.0                                0       100% /snap/snapd/11036
loop8               squashfs 4.0                                0       100% /snap/gtk-common-themes/1506
loop9               squashfs 4.0                                0       100% /snap/snapd/9721
loop10
├─loop10p1
├─loop10p5          ntfs                    4F029D672A8E6A0C           186,5M    1% /mnt/Khisamov/ntfs
├─loop10p6          vfat                   FAT32           0C81-8E76
├─loop10p7          ext2                   1.0             7eb4b20d-a0b2-4439-a6b4-fd7f1d3851fc
├─loop10p8          ext3                   1.0             d7894374-9844-4cf3-88ad-af730e6f44fb
├─loop10p9          ext4                   1.0             14e33af1-a080-4452-b0f3-c272cb8fad24
├─loop10p10         btrfs                 9cff7a1b-f286-4541-b78c-9b2fa04a0139
├─loop10p11         xfs                   5a23cc75-be34-4bc9-ab18-ff103d76ea48
└─loop10p12
sda
├─sda1
├─sda2              vfat                   FAT32           CD57-8907           504,2M    2% /boot/efi
└─sda3              ext4                   1.0             5d168e49-e2d2-4f75-8196-4fdbac6470ef    2,3G     70% /
sr0

```



```

tailiga@raw:/mnt/virtualdisk$ lsblk -f
NAME        FSTYPE  FSVER LABEL  UUID                                FSAVAIL  FSUSE%  MOUNTPOINT
loop0       squashfs 4.0                                0         100%  /snap/core18/1988
loop1       squashfs 4.0                                0         100%  /snap/core18/1885
loop2       squashfs 4.0                                0         100%  /snap/gnome-3-34-1804/60
loop3       squashfs 4.0                                0         100%  /snap/gnome-3-34-1804/66
loop4       squashfs 4.0                                0         100%  /snap/gtk-common-themes/1514
loop5       squashfs 4.0                                0         100%  /snap/snap-store/481
loop6       squashfs 4.0                                0         100%  /snap/snap-store/518
loop7       squashfs 4.0                                0         100%  /snap/snapd/11036
loop8       squashfs 4.0                                0         100%  /snap/gtk-common-themes/1506
loop9       squashfs 4.0                                0         100%  /snap/snapd/9721
loop10
loop10p1
loop10p5    ntfs     FAT32  4F029D672A8E6A0C  186,5M  1%      /mnt/Khisamov/ntfs
loop10p6    vfat     FAT32  0C81-8E76         186,1M  0%      /mnt/Khisamov/vfat
loop10p7    ext2     1.0    7eb4b20d-a0b2-4439-a6b4-fd7f1d3851fc  173,5M  0%      /mnt/Khisamov/ext2
loop10p8    ext3     1.0    d7894374-9844-4cf3-88ad-af730e6f44fb  157,5M  0%      /mnt/Khisamov/ext3
loop10p9    ext4     1.0    14e33af1-a080-4452-b0f3-c272cb8fad24  153,6M  0%      /mnt/Khisamov/ext4
loop10p10   btrfs    0      9cff7a1b-f286-4541-b78c-9b2fa04a0139  108M    2%      /mnt/Khisamov/btrfs
loop10p11   xfs      0      5a23cc75-be34-4bc9-ab18-ff103d76ea48  172,7M  6%      /mnt/Khisamov/xfs
loop10p12
sda
sda1
sda2        vfat     FAT32  CD57-8907         504,2M  2%      /boot/efi
sda3        ext4     1.0    5d168e49-e2d2-4f75-8196-4fdbac6470ef  2,3G    70%     /
sr0

```

11. сделать автоматическое монтирование при загрузке, используя UUID дисков

```

GNU nano 5.2 /etc/fstab
# /etc/fstab: static file system information.
#
# Use 'blkid' to print the universally unique identifier for a
# device; this may be used with UUID= as a more robust way to name devices
# that works even if disks are added and removed. See fstab(5).
#
# <file system> <mount point> <type> <options> <dump> <pass>
# / was on /dev/sda3 during installation
UUID=5d168e49-e2d2-4f75-8196-4fdbac6470ef / ext4 errors=remount-ro 0 1
# /boot/efi was on /dev/sda2 during installation
UUID=CD57-8907 /boot/efi vfat umask=0077 0 1
/swapfile none swap sw 0 0
UUID=4F029D672A8E6A0C /mnt/Khisamov/ntfs ntfs defaults 0 0
UUID=0C81-8E76 /mnt/Khisamov/vfat fat32 defaults 0 0
UUID=7eb4b20d-a0b2-4439-a6b4-fd7f1d3851fc /mnt/Khisamov/ext2 ext2 defaults 0 0
UUID=d7894374-9844-4cf3-88ad-af730e6f44fb /mnt/Khisamov/ext3 ext3 defaults 0 0
UUID=14e33af1-a080-4452-b0f3-c272cb8fad24 /mnt/Khisamov/ext4 ext4 defaults 0 0
UUID=9cff7a1b-f286-4541-b78c-9b2fa04a0139 /mnt/Khisamov/btrfs btrfs defaults 0 0
UUID=5a23cc75-be34-4bc9-ab18-ff103d76ea48 /mnt/Khisamov/xfs xfs defaults 0 0

```

12. на одном из разделов создать файловую систему для SWAP

```

tailiga@raw:/mnt/virtualdisk$ sudo mkswap /dev/loop10p12
Setting up swapspace version 1, size = 189 MiB (198176768 bytes)
no label, UUID=03b31ec3-6bb1-4268-83c0-000ad2f2524b
tailiga@raw:/mnt/virtualdisk$ sudo swapon /dev/loop10p12
tailiga@raw:/mnt/virtualdisk$ sudo swapon -s

```

Filename	Type	Size	Used	Priority
/swapfile	file	459208	0	-2
/dev/loop10p12	partition	193532	0	-3

```

tailiga@raw:/mnt/virtualdisk$ lsblk
NAME                MAJ:MIN RM   SIZE RO TYPE MOUNTPOINT
loop0                 7:0      0  55,5M  1 loop /snap/core18/1988
loop1                 7:1      0  55,3M  1 loop /snap/core18/1885
loop2                 7:2      0 217,9M  1 loop /snap/gnome-3-34-1804/60
loop3                 7:3      0   219M  1 loop /snap/gnome-3-34-1804/66
loop4                 7:4      0  64,8M  1 loop /snap/gtk-common-themes/1514
loop5                 7:5      0  50,7M  1 loop /snap/snap-store/481
loop6                 7:6      0    51M  1 loop /snap/snap-store/518
loop7                 7:7      0  31,1M  1 loop /snap/snapd/11036
loop8                 7:8      0  62,1M  1 loop /snap/gtk-common-themes/1506
loop9                 7:9      0  30,9M  1 loop /snap/snapd/9721
loop10                7:10     0    2G   0 loop
├─loop10p1           259:0     0    1K   0 part
├─loop10p5           259:1     0   189M  0 part /mnt/Khisamov/ntfs
├─loop10p6           259:2     0   189M  0 part /mnt/Khisamov/vfat
├─loop10p7           259:3     0   189M  0 part /mnt/Khisamov/ext2
├─loop10p8           259:4     0   189M  0 part /mnt/Khisamov/ext3
├─loop10p9           259:5     0   189M  0 part /mnt/Khisamov/ext4
├─loop10p10          259:6     0   189M  0 part /mnt/Khisamov/btrfs
├─loop10p11          259:7     0   189M  0 part /mnt/Khisamov/xfs
└─loop10p12          259:8     0   189M  0 part [SWAP]
sda                   8:0      0   10G   0 disk
├─sda1                 8:1      0    1M   0 part
├─sda2                 8:2      0   513M  0 part /boot/efi
└─sda3                 8:3      0   9,5G  0 part /
sr0                   11:0     1 1024M  0 rom

```

13. выполните проверку раздела с файловой системой EXT2

```

tailiga@raw:/mnt/virtualdisk$ sudo umount /dev/loop10p7
tailiga@raw:/mnt/virtualdisk$ sudo fsck /dev/loop10p7
fsck from util-linux 2.36
e2fsck 1.45.6 (20-Mar-2020)
/dev/loop10p7: clean, 11/48384 files, 1548/48384 blocks

```