

# Лабораторная работа №14

## Партиции, файловые системы и монтирование

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## Цель работы

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## Основная цель

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Освоение создания разделов MBR и GPT, работы с файловыми системами и навыков монтирования (вручную и через `/etc/fstab`).

## Выполнение работы

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# Просмотр дисков

```
haoladar@haoladar:~$ su
Password:
root@haoladar:/home/haoladar# fdisk -l
Disk /dev/sda: 50 GiB, 53687091200 bytes, 104857600 sectors
Disk model: VBOX HARDDISK
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: gpt
Disk identifier: F5BC1546-7239-48EC-826F-E5DB510C6692

      Device    Start     End   Sectors Size Type
/dev/sdal       2048      4095      2048   1M BIOS boot
/dev/sda2      4096  2101247  2097152   1G Linux extended boot
/dev/sda3  2101248 104855551 102754304   49G Linux LVM
```

```
Disk /dev/sdb: 1.5 GiB, 1610612736 bytes, 3145728 sectors
Disk model: VBOX HARDDISK
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
```

```
Disk /dev/sdc: 1.5 GiB, 1610612736 bytes, 3145728 sectors
Disk model: VBOX HARDDISK
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
```

```
Disk /dev/mapper/rl_vbox-root: 45.05 GiB, 48372908032 bytes, 94478336 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
```

# Работа с fdisk

```
root@haoladar:/home/haoladar#  
root@haoladar:/home/haoladar# fdisk /dev/sdb  
  
Welcome to fdisk (util-linux 2.40.2).  
Changes will remain in memory only, until you decide to write them.  
Be careful before using the write command.  
  
Device does not contain a recognized partition table.  
Created a new DOS (MBR) disklabel with disk identifier 0xb6734812.  
  
Command (m for help): m  
  
Help:  
  
DOS (MBR)  
a toggle a bootable flag  
b edit nested BSD disklabel  
c toggle the dos compatibility flag  
  
Generic  
d delete a partition  
F list free unpartitioned space  
l list known partition types  
n add a new partition  
p print the partition table  
t change a partition type  
v verify the partition table  
i print information about a partition  
e resize a partition  
  
Misc  
m print this menu  
u change display/entry units  
x extra functionality (experts only)
```

## Работа с fdisk

```
Command (m for help): p

Disk /dev/sdb: 1.5 GiB, 1610612736 bytes, 3145728 sectors
Disk model: VBOX HARDDISK
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: 0xb6734812

Command (m for help): n
Partition type
  p  primary (0 primary, 0 extended, 4 free)
  e  extended (container for logical partitions)
Select (default p): p
Partition number (1-4, default 1):
First sector (2048-3145727, default 2048):
Last sector, +/sectors or +/-size{K,M,G,T,P} (2048-3145727, default 3145727): +300M

Created a new partition 1 of type 'Linux' and of size 300 MiB.

Command (m for help): w
The partition table has been altered.
Calling ioctl() to re-read partition table.
Syncing disks.

root@haoladar:/home/haoladar#
```

Рис. 3: Создание основного раздела

## Проверка изменений

```
root@haoladar:/home/haoladar# fdisk /dev/sdb -l
Disk /dev/sdb: 1.5 GiB, 1610612736 bytes, 3145728 sectors
Disk model: VBOX HARDDISK
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: 0xb6734812
```

<b>Device</b>	<b>Boot</b>	<b>Start</b>	<b>End Sectors</b>	<b>Size</b>	<b>Id</b>	<b>Type</b>
/dev/sdb1		2048	616447	614400	300M	83 Linux

```
root@haoladar:/home/haoladar# cat /proc/partitions
```

major	minor	#blocks	name
-------	-------	---------	------

11	0	1048575	sr0
8	0	52428800	sda
8	1	1024	sda1
8	2	1048576	sda2
8	3	51377152	sda3
8	16	1572864	sdb
8	17	307200	sdb1
8	32	1572864	sdc
253	0	47239168	dm-0
253	1	4136960	dm-1

```
root@haoladar:/home/haoladar# partprobe /dev/sdb
```

```
root@haoladar:/home/haoladar#
```

## Создание extended + logical

```
root@naoladar:/home/naoladar#  
root@haoladar:/home/haoladar# fdisk /dev/sdb  
  
Welcome to fdisk (util-linux 2.40.2).  
Changes will remain in memory only, until you decide to write them.  
Be careful before using the write command.  
  
Command (m for help): n  
Partition type  
    p    primary (1 primary, 0 extended, 3 free)  
    e    extended (container for logical partitions)  
Select (default p): e  
Partition number (2-4, default 2):  
First sector (616448-3145727, default 616448):  
Last sector, +/-sectors or +/-size{K,M,G,T,P} (616448-3145727, default 3145727):  
  
Created a new partition 2 of type 'Extended' and of size 1.2 GiB.  
  
Command (m for help): n  
All space for primary partitions is in use.  
Adding logical partition 5  
First sector (618496-3145727, default 618496):  
Last sector, +/-sectors or +/-size{K,M,G,T,P} (618496-3145727, default 3145727): +300M  
  
Created a new partition 5 of type 'Linux' and of size 300 MiB.  
  
Command (m for help): w  
The partition table has been altered.  
Calling ioctl() to re-read partition table.  
Syncing disks.  
  
root@haoladar:/home/haoladar#
```

## Проверка структуры

```
root@naoladar:/home/naoladar#  
root@haoladar:/home/haoladar# partprobe /dev/sdb  
root@haoladar:/home/haoladar# cat /proc/partitions  
major minor #blocks name  
  
    11      0   1048575 sr0  
     8      0  52428800 sda  
     8      1     1024 sda1  
     8      2   1048576 sda2  
     8      3  51377152 sda3  
     8     16   1572864 sdb  
     8     17  307200 sdb1  
     8     18       1 sdb2  
     8     21  307200 sdb5  
     8     32   1572864 sdc  
 253      0  47239168 dm-0  
 253      1   4136960 dm-1  
root@haoladar:/home/haoladar# fdisk /dev/sdb -l
```

**Disk /dev/sdb: 1.5 GiB, 1610612736 bytes, 3145728 sectors**

Disk model: VBOX HARDDISK

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: 0xb6734812

Device	Boot	Start	End	Sectors	Size	Id	Type
/dev/sdb1		2048	616447	614400	300M	83	Linux
/dev/sdb2		616448	3145727	2529280	1.2G	5	Extended
/dev/sdb5		618496	1232895	614400	300M	83	Linux

```
root@haoladar:/home/haoladar#
```

## Формирование и включение swap

```
root@haoladar:/home/haoladar# fdisk /dev/sdb

Welcome to fdisk (util-linux 2.40.2).
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): n
All space for primary partitions is in use.
Adding logical partition 6
First sector (1234944-3145727, default 1234944):
Last sector, +/-sectors or +/-size{K,M,G,T,P} (1234944-3145727, default 3145727): +300M

Created a new partition 6 of type 'Linux' and of size 300 MiB.

Command (m for help): t
Partition number (1,2,5,6, default 6):
Hex code or alias (type L to list all): 82

Changed type of partition 'Linux' to 'Linux swap / Solaris'.

Command (m for help): w
The partition table has been altered.
Calling ioctl() to re-read partition table.
Syncing disks.

root@haoladar:/home/haoladar# █
```

## Формирование и включение swap

```
root@haoladar:/home/haoladar# partprobe /dev/sdb
root@haoladar:/home/haoladar# fdisk /dev/sdb -l
Disk /dev/sdb: 1.5 GiB, 1610612736 bytes, 3145728 sectors
Disk model: VBOX HARDDISK
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: 0xb6734812

      Device    Boot   Start     End  Sectors  Size Id Type
/dev/sdb1        2048 616447  614400  300M  83 Linux
/dev/sdb2       616448 3145727 2529280   1.2G  5 Extended
/dev/sdb5       618496 1232895  614400  300M  83 Linux
/dev/sdb6       1234944 1849343  614400  300M  82 Linux swap / Solaris
root@haoladar:/home/haoladar# mkswap /dev/sdb6
Setting up swapspace version 1, size = 300 MiB (314568704 bytes)
no label, UUID=9f7e6bb6-3a29-423b-a899-86885f96b545
root@haoladar:/home/haoladar# swapon /dev/sdb6
root@haoladar:/home/haoladar# free -m
              total        used        free      shared  buff/cache   available
Mem:           3652        1373        889          12        1636        2279
Swap:          4339           5        4334
root@haoladar:/home/haoladar# █
```

Рис. 8: Активация swap

# Создание GPT структур

```
Partition table scan:  
  MBR: not present  
  BSD: not present  
  APM: not present  
  GPT: not present  
  
Creating new GPT entries in memory.  
  
Command (? for help): n  
Partition number (1-128, default 1):  
First sector (34-3145694, default = 2048) or {+-}size[KMGTP]:  
Last sector (2048-3145694, default = 3143679) or {+-}size[KMGTP]: +300M  
Current type is 8300 (Linux filesystem)  
Hex code or GUID (L to show codes, Enter = 8300): 8300  
Changed type of partition to 'Linux filesystem'  
  
Command (? for help): p  
Disk /dev/sdc: 3145728 sectors, 1.5 GiB  
Model: VBOX HARDDISK  
Sector size (logical/physical): 512/512 bytes  
Disk identifier (GUID): 5064624E-FDCB-4FFB-BBCF-86185F802AA0  
Partition table holds up to 128 entries  
Main partition table begins at sector 2 and ends at sector 33  
First usable sector is 34, last usable sector is 3145694  
Partitions will be aligned on 2048-sector boundaries  
Total free space is 2531261 sectors (1.2 GiB)  
  
Number  Start (sector)   End (sector)   Size       Code  Name  
 1          2048           616447    300.0 MiB  8300  Linux filesystem  
  
Command (? for help): w  
  
Final checks complete. About to write GPT data. THIS WILL OVERWRITE EXISTING  
PARTITIONS!!  
  
Do you want to proceed? (Y/N): Y  
OK; writing new GUID partition table (GPT) to /dev/sdc.  
The operation has completed successfully..  
root@haoladar:/home/haoladar#
```

## Проверка после partprobe

```
root@haoladar:/home/haoladar# cat /proc/partitions
major minor #blocks name

    11      0   1048575 sr0
     8      0   52428800 sda
     8      1      1024 sda1
     8      2   1048576 sda2
     8      3  51377152 sda3
     8     16   1572864 sdb
     8     17   307200 sdb1
     8     18          0 sdb2
     8     21   307200 sdb5
     8     22   307200 sdb6
     8     32   1572864 sdc
     8     33   307200 sdc1
  253      0   47239168 dm-0
  253      1   4136960 dm-1
root@haoladar:/home/haoladar# gdisk /dev/sdc -l
GPT fdisk (gdisk) version 1.0.10

Partition table scan:
  MBR: protective
  BSD: not present
  APM: not present
  GPT: present

Found valid GPT with protective MBR; using GPT.
Disk /dev/sdc: 3145728 sectors, 1.5 GiB
Model: VBOX HARDDISK
Sector size (logical/physical): 512/512 bytes
Disk identifier (GUID): 5064624E-FDCB-4FFB-BBCF-86185F802AA0
Partition table holds up to 128 entries
Main partition table begins at sector 2 and ends at sector 33
First usable sector is 34, last usable sector is 3145694
Partitions will be aligned on 2048-sector boundaries
Total free space is 2531261 sectors (1.2 GiB)

Number  Start (sector)   End (sector)   Size       Code  Name
      1            2048           616447   300.0 MiB  8300  Linux filesystem
root@haoladar:/home/haoladar#
```

# Создание XFS и EXT4

```
root@haoladar:/home/haoladar# mkfs.xfs /dev/sdb1
meta-data=/dev/sdb1              isize=512    agcount=4, agsize=19200 blks
                                =          sectsz=512  attr=2, projid32bit=1
                                =          crc=1     finobt=1, sparse=1, rmapbt=1
                                =          reflink=1   bigtime=1 inobtcount=1 nnext64=1
                                =          exchange=0
data     =          bsize=4096   blocks=76800, imaxpct=25
        =          sunit=0     swidth=0 blks
naming   =version 2             bsize=4096  ascii-ci=0, ftype=1, parent=0
log      =internal log          bsize=4096  blocks=16384, version=2
        =          sectsz=512  sunit=0 blks, lazy-count=1
realtime =none                 extsz=4096  blocks=0, rtextents=0
root@haoladar:/home/haoladar# xfs_admin -L xfsdisk /dev/sdb1
writing all SBs
new label = "xfsdisk"
root@haoladar:/home/haoladar# mkfs.ext4 /dev/sdb5
mke2fs 1.47.1 (20-May-2024)
Creating filesystem with 307200 1k blocks and 76912 inodes
Filesystem UUID: ced85be8-1e25-4202-a7c6-adf36df71e6a
Superblock backups stored on blocks:
        8193, 24577, 40961, 57345, 73729, 204801, 221185

Allocating group tables: done
Writing inode tables: done
Creating journal (8192 blocks): done
Writing superblocks and filesystem accounting information: done

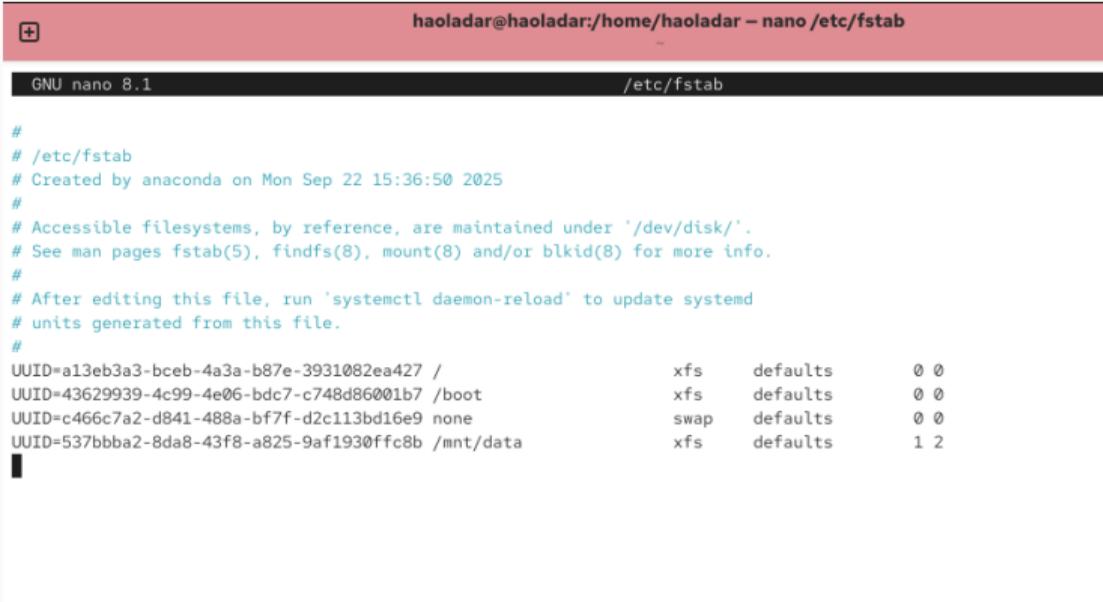
root@haoladar:/home/haoladar# tune2fs -L ext4disk /dev/sdb5
tune2fs 1.47.1 (20-May-2024)
root@haoladar:/home/haoladar# tune2fs -o acl,user_xattr /dev/sdb5
tune2fs 1.47.1 (20-May-2024)
root@haoladar:/home/haoladar#
```

## Временное монтирование EXT4

```
root@haoladar:/home/haoladar# 
root@haoladar:/home/haoladar# mkdir -p /mnt/tmp
root@haoladar:/home/haoladar# mount /dev/sdb5 /mnt/tmp/
root@haoladar:/home/haoladar# mount | grep mnt
/dev/sdb5 on /mnt/tmp type ext4 (rw,relatime,seclabel)
root@haoladar:/home/haoladar# umount /dev/sdb5
root@haoladar:/home/haoladar# mount | grep mnt
root@haoladar:/home/haoladar#
root@haoladar:/home/haoladar# mkdir -p /mnt/data
root@haoladar:/home/haoladar# blkid
/dev/mapper/rl_vbox-swap: UUID="c466c7a2-d841-488a-bf7f-d2c113bd16e9" TYPE="swap"
/dev/sdb2: PTTYPE="dos" PARTUUID="b6734812-02"
/dev/sdb5: LABEL="ext4disk" UUID="ced85be8-1e25-4202-a7c6-adf36df71e6a" BLOCK_SIZE="1024" TYPE="ext4" PARTUUID="b6734812-05"
/dev/sdb1: LABEL="xfsdisk" UUID="537bbba2-8da8-43f8-a825-9af1930ffc8b" BLOCK_SIZE="512" TYPE="xfs" PARTUUID="b6734812-01"
/dev/sdb6: UUID="9f7e6bb6-3a29-423b-a899-86885f96b545" TYPE="swap" PARTUUID="b6734812-06"
/dev/mapper/rl_vbox-root: UUID="a13eb3a3-bceb-4a3a-b87e-3931082ea427" BLOCK_SIZE="512" TYPE="xfs"
/dev/sdc1: PARTLABEL="Linux filesystem" PARTUUID="bc6bd74e-dcff-4522-bc84-cd8b7f0772da"
/dev/sda2: UUID="43629939-4c99-4e06-bdc7-c748d86001b7" BLOCK_SIZE="512" TYPE="xfs" PARTUUID="42cd50ef-a931-4808-8e26-882c6ce37c2"
/dev/sda3: UUID="sdNct5-0WBt-QYKU-mBAT-4CS2-WaGV-hSN00b" TYPE="LVM2_member" PARTUUID="cb874803-de69-47e0-89bc-ffe284e8236e"
/dev/sda1: PARTUUID="2028ff06-aab5-4386-b8a6-9bdae6bfccce2"
root@haoladar:/home/haoladar#
```

Рис. 12: Монтируем и вывод blkid

# Автоматическое монтирование



The screenshot shows a terminal window titled "haoladar@haoladar:/home/haoladar – nano /etc/fstab". The title bar is red, and the status bar at the bottom says "GNU nano 8.1 /etc/fstab". The main content area displays the /etc/fstab file with the following content:

```
#  
# /etc/fstab  
# Created by anaconda on Mon Sep 22 15:36:50 2025  
#  
# Accessible filesystems, by reference, are maintained under '/dev/disk/'.  
# See man pages fstab(5), findfs(8), mount(8) and/or blkid(8) for more info.  
#  
# After editing this file, run 'systemctl daemon-reload' to update systemd  
# units generated from this file.  
#  
UUID=a13eb3a3-bceb-4a3a-b87e-3931082ea427 / xfs defaults 0 0  
UUID=43629939-4c99-4e06-bdc7-c748d86001b7 /boot xfs defaults 0 0  
UUID=c466c7a2-d841-488a-bf7f-d2c113bd16e9 none swap defaults 0 0  
UUID=537bbba2-8da8-43f8-a825-9af1930ffc8b /mnt/data xfs defaults 1 2
```

Рис. 13: Редактирование /etc/fstab

## Проверка результата

```
root@naoladar:/home/naoladar#  
root@haoladar:/home/haoladar# mount -a  
mount: (hint) your fstab has been modified, but systemd still uses  
the old version; use 'systemctl daemon-reload' to reload.  
root@haoladar:/home/haoladar# df -h  
Filesystem           Size   Used  Avail Use% Mounted on  
/dev/mapper/rl_vbox-root  45G   6.3G   39G  14% /  
devtmpfs              4.0M     0  4.0M  0% /dev  
tmpfs                 1.8G   84K  1.8G  1% /dev/shm  
tmpfs                 731M   13M  719M  2% /run  
tmpfs                 1.0M     0  1.0M  0% /run/credentials/systemd-journald.service  
/dev/sda2               960M  377M  584M  40% /boot  
tmpfs                 366M  144K  366M  1% /run/user/1000  
tmpfs                 366M   60K  366M  1% /run/user/0  
/dev/sdb1               236M   20M  217M  9% /mnt/data  
root@haoladar:#
```

Рис. 14: Результат автоматического монтирования

## Самостоятельная работа

---

# Создание двух GPT-разделов

```
Partition number (3-128, default 3):  
First sector (34-3145694, default = 1230848) or {+-}size{KMGTP}:  
Last sector (1230848-3145694, default = 3143679) or {+-}size{KMGTP}: +300M  
Current type is 8300 (Linux filesystem)  
Hex code or GUID (L to show codes, Enter = 8300): 8200  
Changed type of partition to 'Linux swap'  
  
Command (? for help): w  
  
Final checks complete. About to write GPT data. THIS WILL OVERWRITE EXISTING  
PARTITIONS!!  
  
Do you want to proceed? (Y/N): Y  
OK; writing new GUID partition table (GPT) to /dev/sdc.  
The operation has completed successfully.  
root@haoladar:/home/haoladar# gdisk /dev/sdc -l  
GPT fdisk (gdisk) version 1.0.10  
  
Partition table scan:  
  MBR: protective  
  BSD: not present  
  APM: not present  
  GPT: present  
  
Found valid GPT with protective MBR; using GPT.  
Disk /dev/sdc: 3145728 sectors, 1.5 GiB  
Model: VBOX HARDDISK  
Sector size (logical/physical): 512/512 bytes  
Disk identifier (GUID): 5064624E-FDCB-4FFB-BBCF-86185F802AA0  
Partition table holds up to 128 entries  
Main partition table begins at sector 2 and ends at sector 33  
First usable sector is 34, last usable sector is 3145694  
Partitions will be aligned on 2048-sector boundaries  
Total free space is 1302461 sectors (636.0 MiB)  
  
Number  Start (sector)   End (sector)   Size       Code  Name  
 1          2048           616447   300.0 MiB  8300  Linux filesystem  
 2         616448          1230847   300.0 MiB  8300  Linux filesystem  
 3        1230848          1845247   300.0 MiB  8200  Linux swap  
root@haoladar:/home/haoladar#
```

## Форматирование и настройка swap

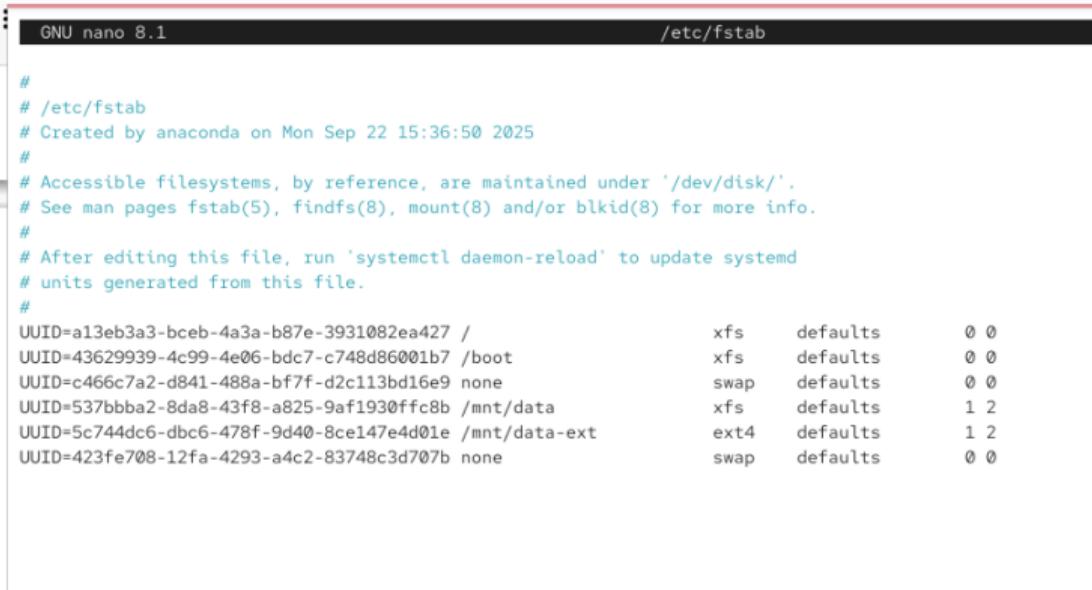
```
root@haoladar:/home/haoladar# mkfs.ext4 /dev/sdc2
mke2fs 1.47.1 (20-May-2024)
Creating filesystem with 307200 1k blocks and 76912 inodes
Filesystem UUID: 5c744dc6-dbc6-478f-9d40-8ce147e4d01e
Superblock backups stored on blocks:
    8193, 24577, 40961, 57345, 73729, 204801, 221185

Allocating group tables: done
Writing inode tables: done
Creating journal (8192 blocks): done
Writing superblocks and filesystem accounting information: done

root@haoladar:/home/haoladar# tune2fs -L ext4disk /dev/sdc2
tune2fs 1.47.1 (20-May-2024)
root@haoladar:/home/haoladar# tune2fs -o acl,user_xattr /dev/sdc2
tune2fs 1.47.1 (20-May-2024)
root@haoladar:/home/haoladar# mkswap /dev/sdc3
Setting up swapspace version 1, size = 300 MiB (314568704 bytes)
no label, UUID=423fe708-12fa-4293-a4c2-83748c3d707b
root@haoladar:/home/haoladar# █
```

Рис. 16: Форматирование ext4 и создание swap

# Настройка fstab



The screenshot shows a terminal window titled "GNU nano 8.1" with the file "/etc/fstab" open. The content of the file is as follows:

```
#  
# /etc/fstab  
# Created by anaconda on Mon Sep 22 15:36:50 2025  
#  
# Accessible filesystems, by reference, are maintained under '/dev/disk/'.  
# See man pages fstab(5), findfs(8), mount(8) and/or blkid(8) for more info.  
#  
# After editing this file, run 'systemctl daemon-reload' to update systemd  
# units generated from this file.  
#  
UUID=a13eb3a3-bceb-4a3a-b87e-3931082ea427 / xfs defaults 0 0  
UUID=43629939-4c99-4e06-bdc7-c748d86001b7 /boot xfs defaults 0 0  
UUID=c466c7a2-d841-488a-bf7f-d2c113bd16e9 none swap defaults 0 0  
UUID=537bbba2-8da8-43f8-a825-9af1930ffc8b /mnt/data xfs defaults 1 2  
UUID=5c744dc6-dbc6-478f-9d40-8ce147e4d01e /mnt/data-ext ext4 defaults 1 2  
UUID=423fe708-12fa-4293-a4c2-83748c3d707b none swap defaults 0 0
```

Рис. 17: Настройка /etc/fstab

## Проверка монтирования и swap

```
haoladar@haoladar:~$  
haoladar@haoladar:~$ df -h  
Filesystem      Size  Used Avail Use% Mounted on  
/dev/mapper/rl_vbox-root  45G  6.3G  39G  14% /  
devtmpfs        4.0M     0  4.0M   0% /dev  
tmpfs          1.8G  84K  1.8G   1% /dev/shm  
tmpfs          731M  9.3M 722M   2% /run  
tmpfs          1.0M     0  1.0M   0% /run/credentials/systemd-journald.service  
/dev/sdc1       236M   20M 217M   9% /mnt/data  
/dev/sda2       960M  377M 584M  40% /boot  
/dev/sdb2       272M   14K 253M   1% /mnt/data-ext  
tmpfs          366M   76K 366M   1% /run/user/42  
tmpfs          366M  140K 366M   1% /run/user/1000  
haoladar@haoladar:~$ mount | grep mnt  
/dev/sdc1 on /mnt/data type xfs (rw,relatime,seclabel,attr2,inode64,logbufs=8,logbsize=32k,noquota)  
/dev/sdb2 on /mnt/data-ext type ext4 (rw,relatime,seclabel)  
haoladar@haoladar:~$  
haoladar@haoladar:~$ free -m  
              total        used         free        shared      buff/cache    available  
Mem:       3652        1281       1935          17         669        2371  
Swap:      4339          0        4339  
haoladar@haoladar:~$
```

Рис. 18: Проверка монтирования и swap

## Итоги работы

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## Выводы

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- Освоены инструменты **fdisk** и **gdisk**
- Получены навыки разметки MBR и GPT
- Отработано создание файловых систем **XFS** и **EXT4**
- Настроено пространство подкачки **swap**
- Выполнено ручное и автоматическое монтирование файловых систем через  
**/etc/fstab**