

Лабораторная работа №14

Партиции, файловые системы и монтирование

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Цель работы

Получить навыки создания разделов, работы с файловыми системами и монтирования в Linux.

Создание разделов MBR

```
sigamberdov@sigamberdov:~$ su
```

```
Password:
```

```
root@sigamberdov:/home/sigamberdov# fdisk -l
```

```
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/sda: 40 GiB, 42949672960 bytes, 83886080 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: 2E7D45D6-2E97-4180-AFB2-F9A4A8302ECA
```

Device	Start	End	Sectors	Size	Type
/dev/sda1	2048	4095	2048	1M	BIOS boot
/dev/sda2	4096	2101247	2097152	1G	Linux extended boot
/dev/sda3	2101248	83884031	81782784	39G	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
```

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)

Script

- I load disk layout from sfdisk script file
- O dump disk layout to sfdisk script file

Save & Exit

- w write table to disk and exit
- q quit without saving changes

Создание основного раздела 300 MiB

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: 0x1fde30aa

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@sigamberdov:/home/sigamberdov#

Проверка структуры и синхронизация

```
root@sigamberdov:/home/sigamberdov#  
root@sigamberdov:/home/sigamberdov# 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: 0x1fde30aa
```

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

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

11	0	1048575	sr0
8	32	1572864	sdc
8	0	41943040	sda
8	1	1024	sda1
8	2	1048576	sda2
8	3	40891392	sda3
8	16	1572864	sdb
8	17	307200	sdb1
253	0	36753408	dm-0
253	1	4136960	dm-1

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


Расширенные и логические разделы

Создание extended-раздела и логического внутри него

```
root@sigamberdov:/home/sigamberdov#  
root@sigamberdov:/home/sigamberdov# 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@sigamberdov:/home/sigamberdov#
```

Создание extended-раздела и логического внутри него

```
root@sigamberdov:/home/sigamberdov#  
root@sigamberdov:/home/sigamberdov# partprobe /dev/sdb  
root@sigamberdov:/home/sigamberdov# cat /proc/partitions  
major minor #blocks name  
  
11      0      1048575 sr0  
8       32      1572864 sdc  
8       0      41943040 sda  
8       1         1024 sda1  
8       2      1048576 sda2  
8       3     40891392 sda3  
8      16      1572864 sdb  
8      17      307200 sdb1  
8      18           0 sdb2  
8      21      307200 sdb5  
253     0     36753408 dm-0  
253     1     4136960 dm-1  
  
root@sigamberdov:/home/sigamberdov# 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: 0x1fde30aa  
  


| 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@sigamberdov:/home/sigamberdov#
```

Создание swap

Разметка и изменение типа раздела

```
root@sigamberdov:/home/sigamberdov#  
root@sigamberdov:/home/sigamberdov# 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@sigamberdov:/home/sigamberdov#
```

```
8      0  41943040 sda
8      1      1024 sda1
8      2  1048576 sda2
8      3 40891392 sda3
8     16  1572864 sdb
8     17  307200 sdb1
8     18      0 sdb2
8     21  307200 sdb5
8     22  307200 sdb6
253     0 36753408 dm-0
253     1  4136960 dm-1
```

```
root@sigamberdov:/home/sigamberdov# 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: 0x1fde30aa
```

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@sigamberdov:/home/sigamberdov# mkswap /dev/sdb6
```

```
Setting up swapspace version 1, size = 300 MiB (314568704 bytes)
```

```
no label, UUID=3ebb4444-8a5f-41a8-bdd9-af5d949ef588
```

```
root@sigamberdov:/home/sigamberdov# swapon /dev/sdb6
```

```
root@sigamberdov:/home/sigamberdov# free -m
```

	total	used	free	shared	buff/cache	available
Mem:	3652	1415	698	20	1800	2237
Swap:	4339	0	4339			

```
root@sigamberdov:/home/sigamberdov#
```

GPT-разметка через gdisk

Создание GPT-таблицы и первого раздела

```
root@sigamberdov:/home/sigamberdov#  
root@sigamberdov:/home/sigamberdov# gdisk -l /dev/sdc  
GPT fdisk (gdisk) version 1.0.10  
  
Partition table scan:  
  MBR: not present  
  BSD: not present  
  APM: not present  
  GPT: not present  
  
Creating new GPT entries in memory.  
Disk /dev/sdc: 3145728 sectors, 1.5 GiB  
Model: VBOX HARDDISK  
Sector size (logical/physical): 512/512 bytes  
Disk identifier (GUID): 3F72C5A4-B6C9-47EC-83AD-7D514189964D  
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 3145661 sectors (1.5 GiB)  
  
Number  Start (sector)    End (sector)  Size      Code  Name  
root@sigamberdov:/home/sigamberdov#
```


Создание GPT-таблицы и первого раздела

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): CF2476D3-48A3-457C-BB66-0156E44B4FFA

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@sigamberdov:/home/sigamberdov#

```
8      0  41943040 sda
8      1    1024 sda1
8      2   1048576 sda2
8      3  40891392 sda3
8     16   1572864 sdb
8     17   307200 sdb1
8     18      0 sdb2
8     21   307200 sdb5
8     22   307200 sdb6
253    0  36753408 dm-0
253    1  4136960 dm-1
root@sigamberdov:/home/sigamberdov# 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): CF2476D3-48A3-457C-BB66-0156E44B4FFA

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@sigamberdov:/home/sigamberdov#
```

Форматирование файловых систем

```

root@sigamberdov:/home/sigamberdov#
root@sigamberdov:/home/sigamberdov# 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 nrext64=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@sigamberdov:/home/sigamberdov# xfs_admin -L xfsdisk /dev/sdb1
writing all SBs
new label = "xfsdisk"
root@sigamberdov:/home/sigamberdov# mkfs.ext4 /dev/sdb5
mke2fs 1.47.1 (20-May-2024)
Creating filesystem with 307200 1k blocks and 76912 inodes
Filesystem UUID: 09563bfb-73b5-4c40-8345-fb658ea62727
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@sigamberdov:/home/sigamberdov# tune2fs -L ext4disk /dev/sdb5
tune2fs 1.47.1 (20-May-2024)
root@sigamberdov:/home/sigamberdov# tune2fs -o acl,user_xattr /dev/sdb5
tune2fs 1.47.1 (20-May-2024)
Invalid mount option set: acl,user_xattr
root@sigamberdov:/home/sigamberdov#

```

Ручное монтирование

```
root@sigamberdov:/home/sigamberdov#  
root@sigamberdov:/home/sigamberdov# mkdir -p /mnt/tmp  
root@sigamberdov:/home/sigamberdov# mount /dev/sdb5 /mnt/tmp  
root@sigamberdov:/home/sigamberdov# mount | grep sdb5  
/dev/sdb5 on /mnt/tmp type ext4 (rw,relatime,seclabel)  
root@sigamberdov:/home/sigamberdov# mount | grep sdb  
/dev/sdb5 on /mnt/tmp type ext4 (rw,relatime,seclabel)  
root@sigamberdov:/home/sigamberdov# umount /dev/sdb5  
root@sigamberdov:/home/sigamberdov# mount | grep sdb  
root@sigamberdov:/home/sigamberdov#
```

Рис. 13: Монтирование EXT4

Автоматическое монтирование через /etc/fstab

```
root@sigamberdov:/home/sigamberdov#  
root@sigamberdov:/home/sigamberdov# mkdir -p /mnt/data  
root@sigamberdov:/home/sigamberdov# blkid  
/dev/mapper/rl_vbox-swap: UUID="fc4eddc6-c4f4-4723-8f5d-faafa4784cda" TYPE="swap"  
/dev/sdb2: PTTYPE="dos" PARTUUID="1fde30aa-02"  
/dev/sdb5: LABEL="ext4disk" UUID="09563bfb-73b5-4c40-8345-fb658ea62727" BLOCK_SIZE="1024" TYPE="ext4" PARTU  
ID="1fde30aa-05"  
/dev/sdb1: LABEL="xfsdisk" UUID="64b7dd76-1cc8-4235-8ad8-4f90d12c9605" BLOCK_SIZE="512" TYPE="xfs" PARTUUID=  
"1fde30aa-01"  
/dev/sdb6: UUID="3ebb4444-8a5f-41a8-bdd9-af5d949ef588" TYPE="swap" PARTUUID="1fde30aa-06"  
/dev/mapper/rl_vbox-root: UUID="56362b30-55f8-4f4b-9a9b-2544717501fa" BLOCK_SIZE="512" TYPE="xfs"  
/dev/sdc1: PARTLABEL="Linux filesystem" PARTUUID="8d2f7fbe-8ef7-42dc-bd0d-0bdfbe37b5d7"  
/dev/sda2: UUID="eeeeec4be-5545-4b77-be3e-c9b195fe2286" BLOCK_SIZE="512" TYPE="xfs" PARTUUID="01222ce8-64d8-4  
857-9059-bef1a8e1e10c"  
/dev/sda3: UUID="u20Lko-J1pn-wxbK-VPRg-PAcf-ZwCg-mMUv1V" TYPE="LVM2_member" PARTUUID="4285959c-2763-4527-837  
7-1bacc92bd9fd"  
/dev/sda1: PARTUUID="939c6f5a-b4ac-47b4-bf95-c7d5df35fc34"  
root@sigamberdov:/home/sigamberdov# blkid /dev/sdb1  
/dev/sdb1: LABEL="xfsdisk" UUID="64b7dd76-1cc8-4235-8ad8-4f90d12c9605" BLOCK_SIZE="512" TYPE="xfs" PARTUUID=  
"1fde30aa-01"  
root@sigamberdov:/home/sigamberdov#
```

Рис. 14: UUID через blkid



```
sigamberdov@sigamberdov:/home/sigamberdov - nano /etc/fstab
GNU nano 8.1 /etc/fstab

#
# /etc/fstab
# Created by anaconda on Wed Sep 17 09:57:58 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=56362b30-55f8-4f4b-9a9b-2544717501fa / xfs defaults 0 0
UUID=eeeeec4be-5545-4b77-be3e-c9b195fe2286 /boot xfs defaults 0 0
UUID=fc4eddc6-c4f4-4723-8f5d-faafa4784cda none swap defaults 0 0
UUID=64b7dd76-1cc8-4235-8ad8-4f90d12c9605 /mnt/data xfs defaults 1 2
```

Рис. 15: Редактирование fstab

```
root@sigamberdov:/home/sigamberdov# mount -a
mount: (hint) your fstab has been modified, but systemd still uses
the old version; use 'systemctl daemon-reload' to reload.
root@sigamberdov:/home/sigamberdov# df -h
```

Filesystem	Size	Used	Avail	Use%	Mounted on
/dev/mapper/rl_vbox-root	35G	6.1G	29G	18%	/
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	148K	366M	1%	/run/user/1000
tmpfs	366M	60K	366M	1%	/run/user/0
/dev/sdb1	236M	20M	217M	9%	/mnt/data

```
root@sigamberdov:/home/sigamberdov#
```

Рис. 16: df -h

Самостоятельная часть

Добавление GPT-разделов

Partition table scan:

MBR: protective
BSD: not present
APM: not present
GPT: present

Found valid GPT with protective MBR; using GPT.

Command (? for help): n

Partition number (2-128, default 2):

First sector (34-3145694, default = 616448) or {+}size{KMGTP}:

Last sector (616448-3145694, default = 3143679) or {+}size{KMGTP}: +300M

Current type is 8300 (Linux filesystem)

Hex code or GUID (L to show codes, Enter = 8300):

Changed type of partition to 'Linux filesystem'

Command (? for help): n

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@sigamberdov:/home/sigamberdov#

```
root@sigamberdov:/home/sigamberdov# mkfs.ext4 /dev/sdc2
mke2fs 1.47.1 (20-May-2024)
Creating filesystem with 307200 1k blocks and 76912 inodes
Filesystem UUID: a6678ce7-9195-4c69-89af-3fc1c3aab6a9
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@sigamberdov:/home/sigamberdov# tune2fs -L ext4disk /dev/sdc2
tune2fs 1.47.1 (20-May-2024)
root@sigamberdov:/home/sigamberdov# tune2fs -o acl,user_xattr /dev/sdc2
tune2fs 1.47.1 (20-May-2024)
root@sigamberdov:/home/sigamberdov# mkswap /dev/sdc3
Setting up swapspace version 1, size = 300 MiB (314568704 bytes)
no label, UUID=dd15f474-b25a-4385-8bbe-alad82ed2852
root@sigamberdov:/home/sigamberdov# █
```

Рис. 18: Форматирование ext4 и swap

```
sigamberdov@sigamberdov:~$ mount | grep mnt
/dev/sda1 on /mnt/data type xfs (rw,relatime,seclabel,attr2,inode64,logbufs=8,logbsize=32k,noquota)
/dev/sdc2 on /mnt/data-ext type ext4 (rw,relatime,seclabel)
sigamberdov@sigamberdov:~$ df -h
Filesystem                Size      Used Avail Use% Mounted on
/dev/mapper/rl_vbox-root   35G       6.1G    29G   18% /
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/sda1                  236M       20M    217M    9% /mnt/data
/dev/sdb2                  960M      377M    584M   40% /boot
/dev/sdc2                  272M       14K    253M    1% /mnt/data-ext
tmpfs                       366M      144K    366M    1% /run/user/1000
sigamberdov@sigamberdov:~$ free -m
              total        used        free      shared  buff/cache   available
Mem:           3652         1342         1223          17         1330         2310
Swap:          4339              0         4339
```

Рис. 19: Проверка монтирования и swap

Итоги работы

В ходе лабораторной работы выполнено создание разделов MBR и GPT, форматирование файловых систем XFS и EXT4, настройка разделов подкачки, ручное и автоматическое монтирование через `/etc/fstab`. Получены практические навыки администрирования дисковой подсистемы Linux.