

# GRUB2 UEFI GPT

- 
- 
- grub
- EFI Live-CD
- EFI Live-CD
- GRUB EFI



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- Astra Linux Special Edition .10015-01 ( 1.7)
- Astra Linux Special Edition .10015-01 ( 1.6)
- Astra Linux Special Edition .10015-16 . 1
- Astra Linux Common Edition 2.12

MBR GPT - grub, MBR. grub GPT, UEFI.

, :

1. :

```
sudo apt autoremove grub-pc grub-pc-bin
```

2. GRUB EFI:

```
sudo apt install grub-efi efibootmgr
```

, . :

1. ( );

2. , . DHCP :

```
dhclient
```

GRUB EFI ( ).

, .

## grub



. Live- gparted.

(swap), grub , , (. (swap): ).

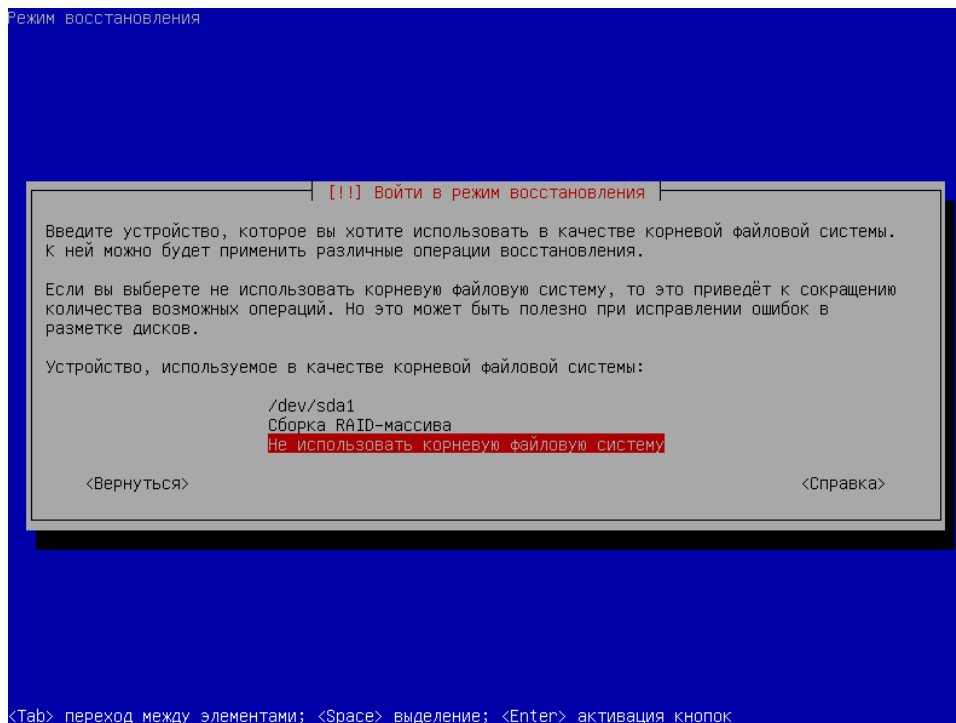


( Astra Linux , , Live-). , .

grub - 200 ( , ).

1. ;

2. " ":



3. :

parted

,:

```
GNU Parted 3.2
Using /dev/sda
Welcome to GNU Parted! Type 'help' to view a list of commands.

(parted) resizepart
Partition number? 1
End? [14,0GB]? 13800
Warning: Shrinking a partition can cause data loss, are you sure you want to continue?
Yes/No? yes

(parted) quit
```

```
1 /dev/sda ( 14,0GB) 13,800KB;
```

4.

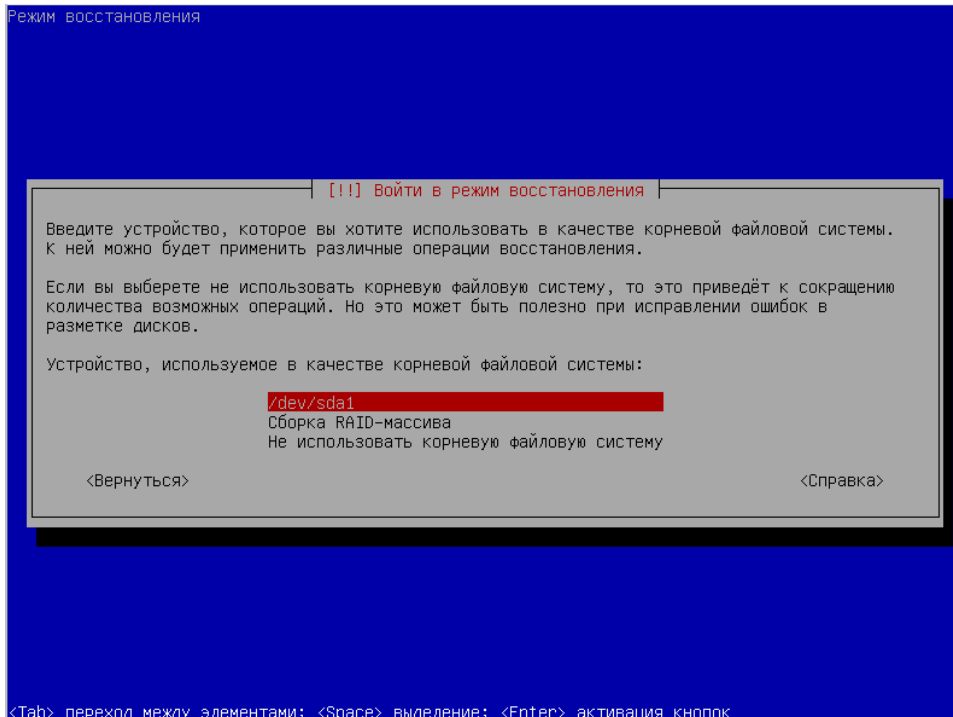
```
e2fsck -f /dev/sda1
resize2fs /dev/sda1
```

5. Alt+Ctrl+F1

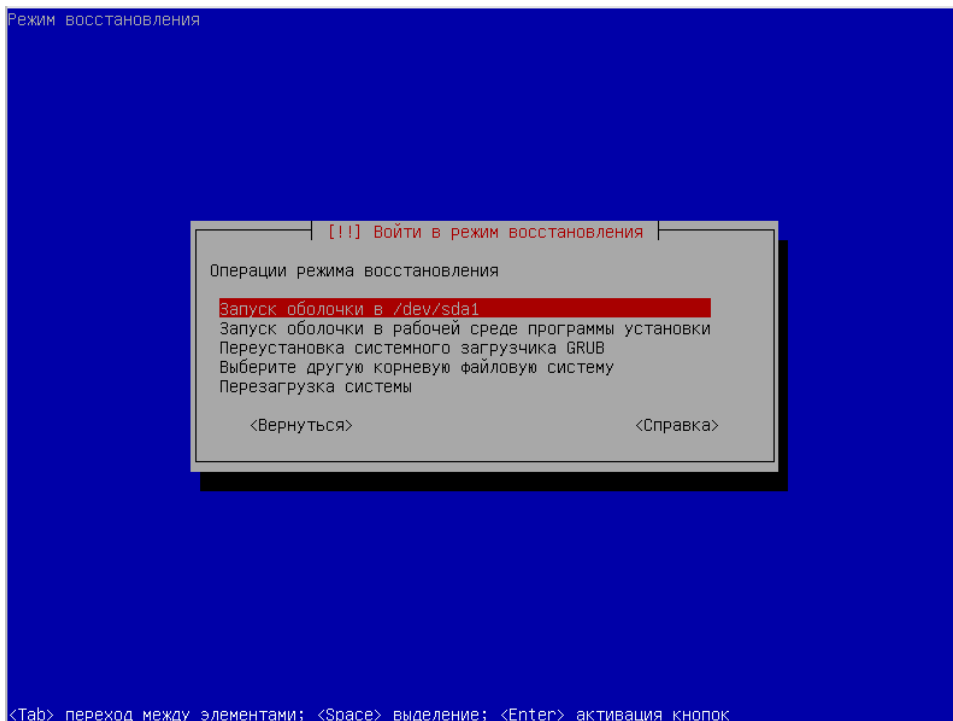
## EFI Live-CD

1. ;

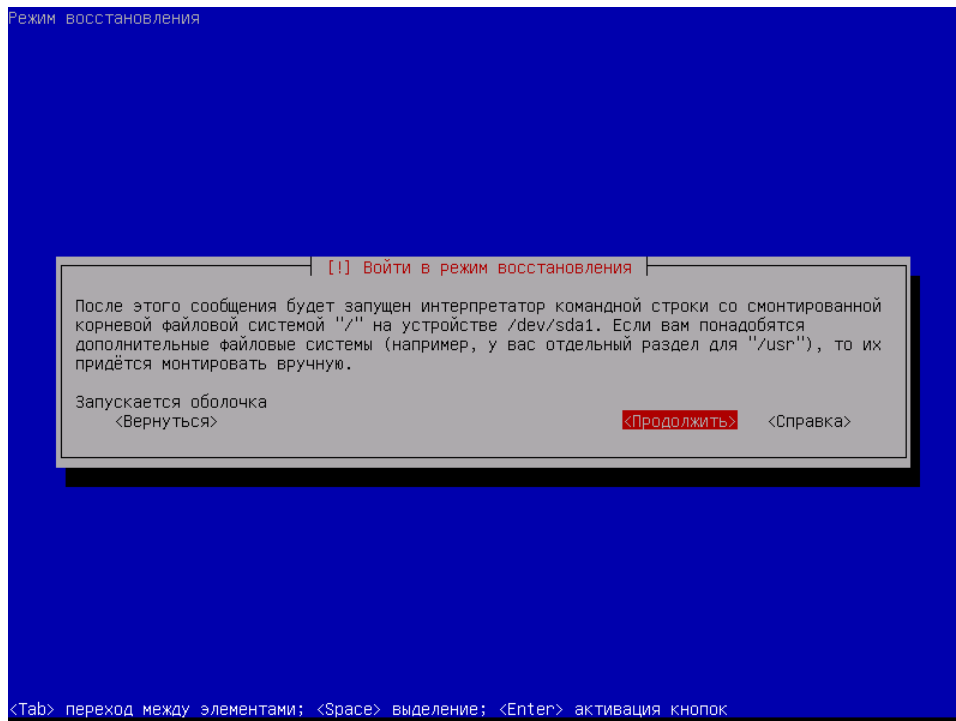
2. . /dev/sda1:



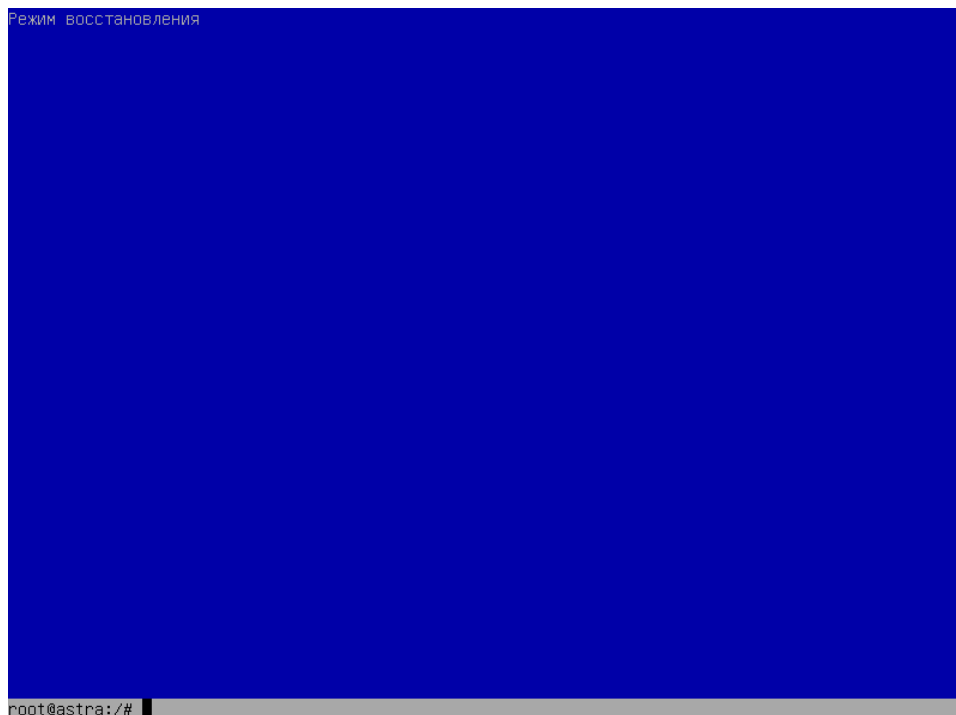
3. :



4. :



5. "Alt+Ctrl+F2":



6. "Enter" :

```
Please press Enter to activate this console. _
```

7. :  
:

```
Please press Enter to activate this console.  
  
BusyBox v1.20.2 (Debian 1:1.20.0-7) built-in shell (ash)  
Enter 'help' for a list of built-in commands.  
  
~ #
```

8. :  
:

```
chroot /target
```

9. . :  
:

```
apt install gdisk  
gdisk /dev/sda
```

- a. "n";
- b. EFI (ef00)

 , "L"

- c. (label) (/etc/fstab). "" "w":

```
sh-4.4# gdisk /dev/sda
GPT fdisk (gdisk) version 1.0.1

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

*****
Found invalid GPT and valid MBR; converting MBR to GPT format
in memory. THIS OPERATION IS POTENTIALLY DESTRUCTIVE! Exit by
typing 'q' if you don't want to convert your MBR partitions
to GPT format!
*****

Command (? for help): n
Partition number (2-128, default 2):
First sector (34-31457246, default = 26953728) or {+-}size{KMGT}:
Last sector (26953728-27265023, default = 27265023) or {+-}size{KMGT}:
Current type is 'Linux filesystem'
Hex code or GUID (L to show codes, Enter = 8300): ef00
Changed type of partition to 'EFI System'

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
```

```
sh-4.4# gdisk /dev/sda
GPT fdisk (gdisk) version 1.0.1

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

Found valid GPT with protective MBR; using GPT.

Command (? for help): c
Partition number (1-5): 2
Enter name: EFI-SYstem

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
```

, EFI-SYstem;

- d.

```
partprobe /dev/sda
```

- e. ef02:

```
gdisk /dev/sda
```

```

sh-4.4# gdisk /dev/sda
GPT fdisk (gdisk) version 1.0.1

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 (3-128, default 3):
First sector (34-31457246, default = 31455232) or {+}-size{KMGT}:
Last sector (31455232-31457246, default = 31457246) or {+}-size{KMGT}:
Current type is 'Linux filesystem'
Hex code or GUID (L to show codes, Enter = 8300): ef02
Changed type of partition to 'BIOS boot partition'

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_

```

f. :

```

partprobe /dev/sda
mkfs -t vfat -v /dev/disk/by-partlabel/EFI-System

```

g. /boot/efi:

```

mkdir /boot/efi

```

h. (/etc/fstab):

```

/dev/disk/by-partlabel/EFI-system /boot/efi vfat defaults 0 2

```

i. ESP:

```

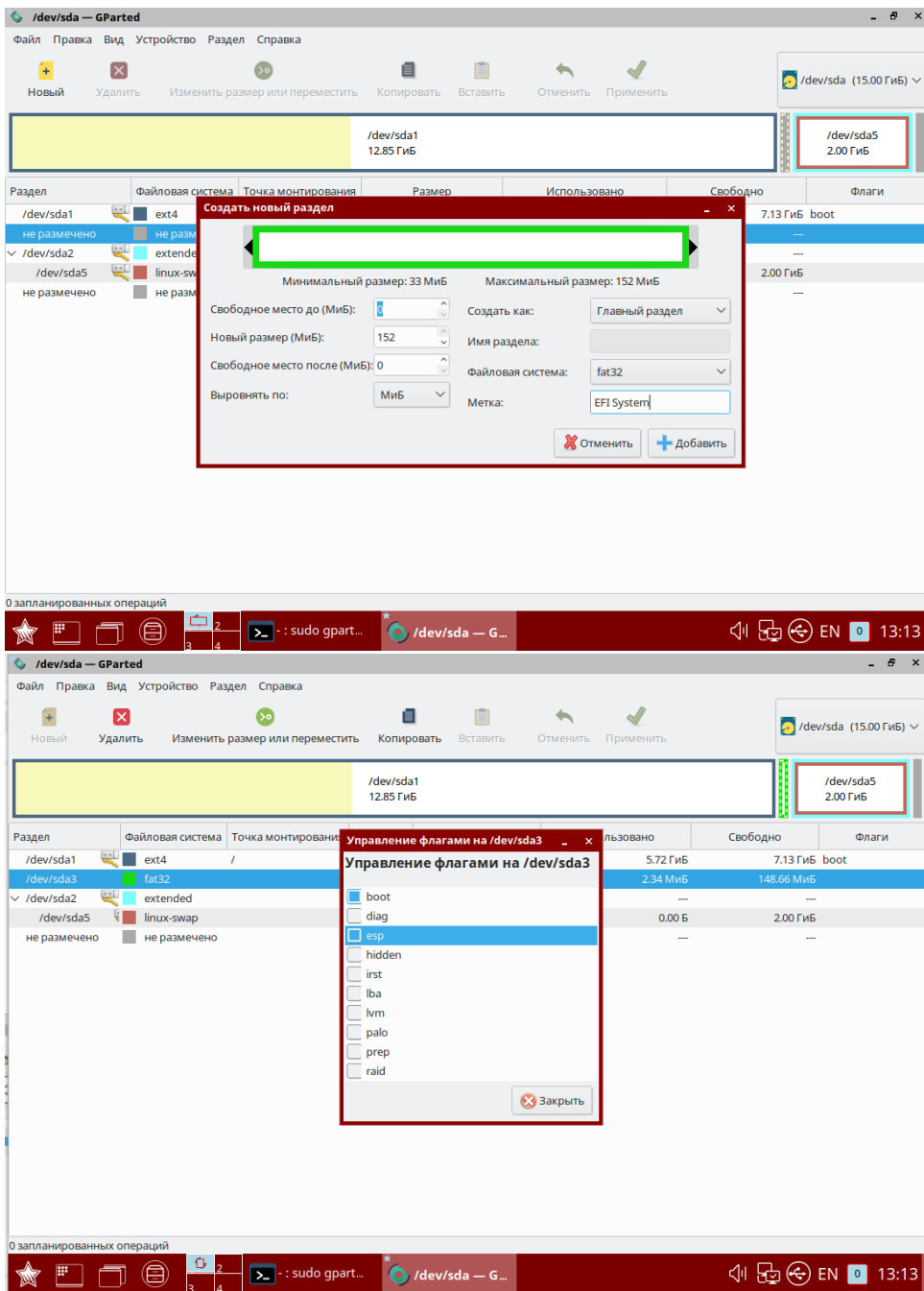
mount /boot/efi

```

j. .

## EFI Live-CD

1. Live-CD;
2. Gparted 100 FAT32 ESP:



3. /boot/efi:

```
sudo mkdir /boot/efi
```

4. UUID blkid (/etc/fstab):

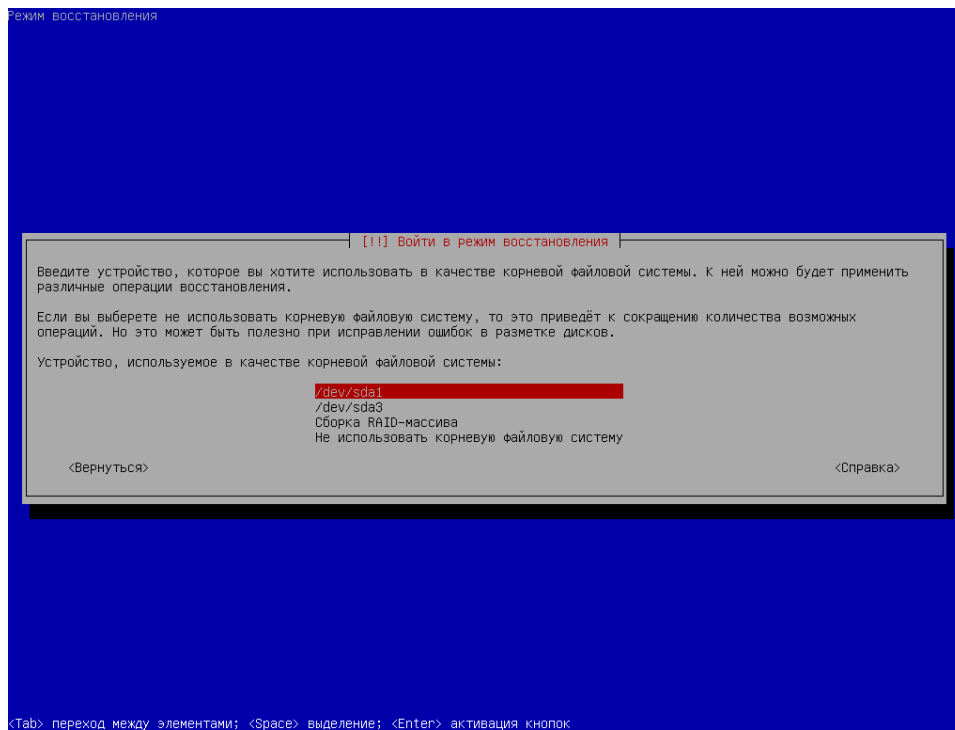
```
UUID=<UUID blkid> /boot/efi vfat defaults 0 0
```

5. :

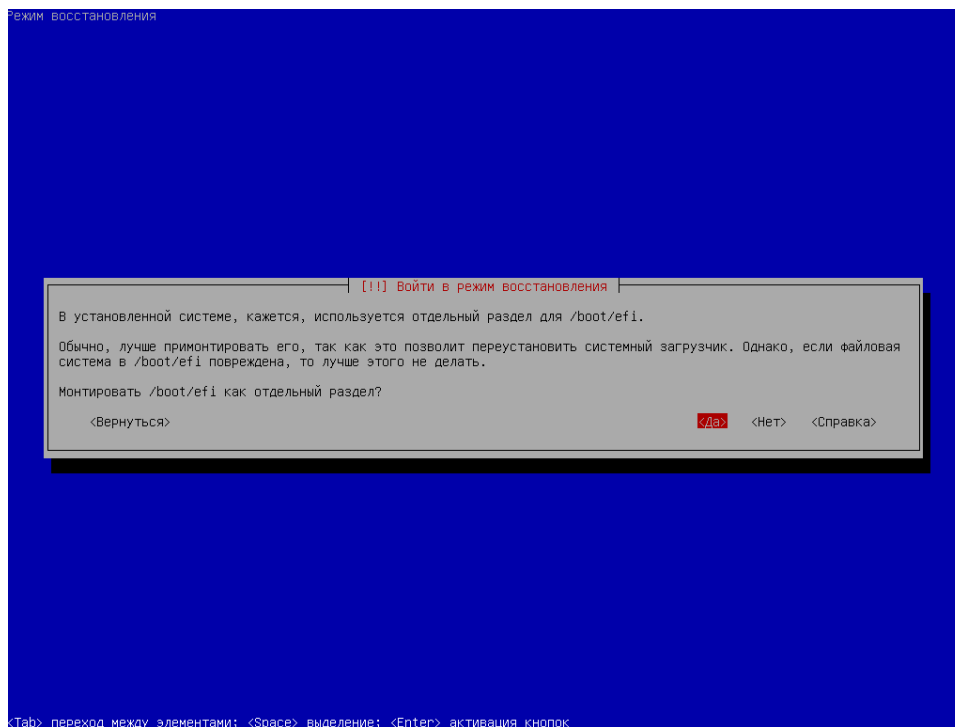
```
sudo update-grub
```

# GRUB EFI

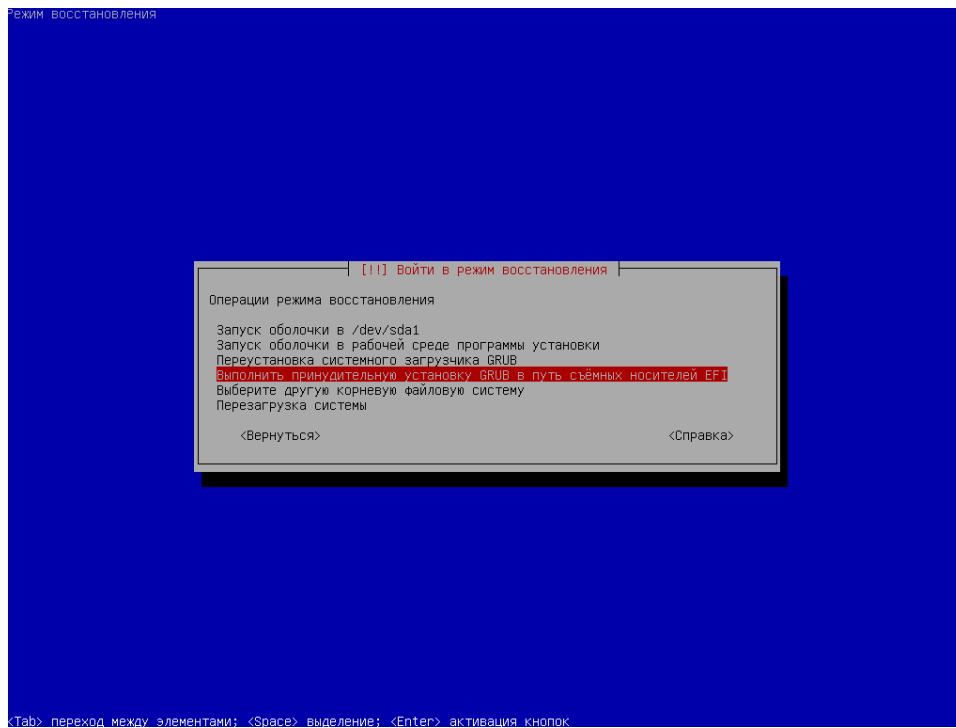
1. UEFI;
2. :



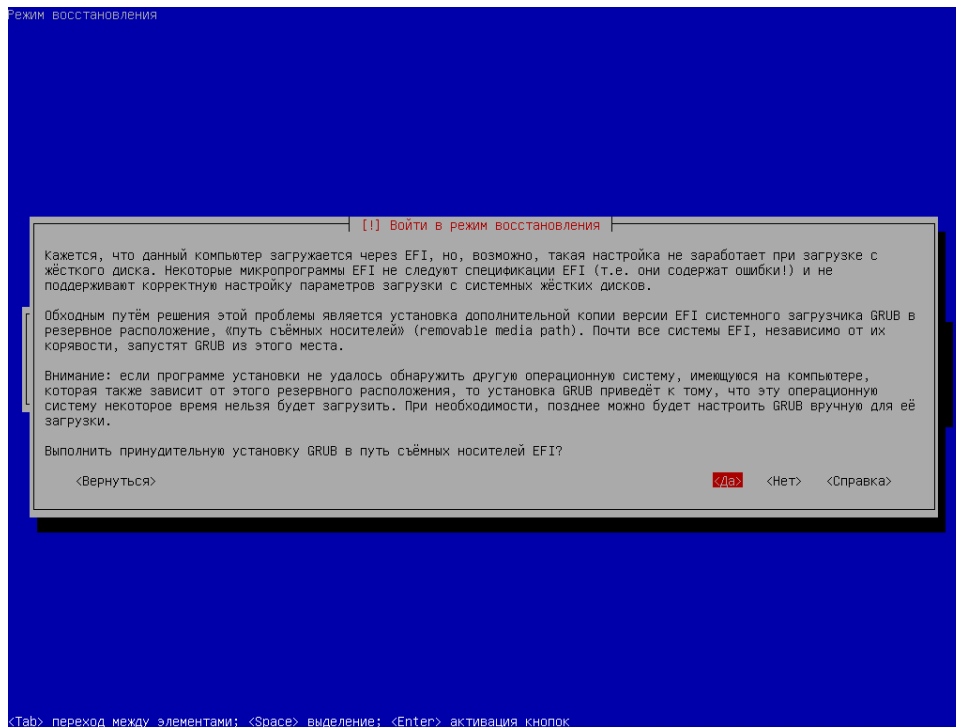
3. EFI:



4. :



5. :



6. .