

ALP-raw Astra Linux

- [ALP-raw](#)
- [ALP-raw](#)
- [ALP-](#)
- - [VirtualBox](#)
 -
- -
 -
- [read-only](#) .
- [ALP-raw](#) [USB-](#), [Rutoken flash](#), [Jakarta flash](#)
 - [ALP-raw](#) [Windows](#)
- [ALP-raw](#) .
 - [virt-manager](#)
 -
 - [ALP-](#)



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- [USB flash drive](#)
- [ALP-live](#) ([Live-CD/Live-USB](#)) [Astra Linux](#) :



:

- [Astra Linux Special Edition .10015-01](#) ([1.7](#)), [.10015-10](#)
- [Astra Linux Special Edition .10015-17](#)
- [Astra Linux Special Edition .10015-37](#) ([7.7](#))
- [Astra Linux Special Edition .10015-03](#) ([7.6](#))
- [Astra Linux Special Edition .10015-01](#) ([1.6](#))
- [Astra Linux Special Edition .10015-16](#) . [1](#)
- [Astra Linux Common Edition 2.12](#)

ALP-raw

[ALP-raw](#) ([Astra Linux Portable](#)) — [Astra Linux Special Edition](#). ([. ASTRA LINUX PORTABLE](#) — [ASTRA LINUX SPECIAL EDITION](#)). [ALP-raw](#) [ALP-live](#) , [Live-CD/Live-USB](#) [Astra Linux](#) , :

- ;
- ([ALP-live](#) -);
- , [ALP-raw](#) ([ALP-live](#) .. [squashfs](#)).

[ALP-raw](#) [Legacy](#) [EFI](#). [ALP-raw](#) , (swap). , , .

ALP-raw

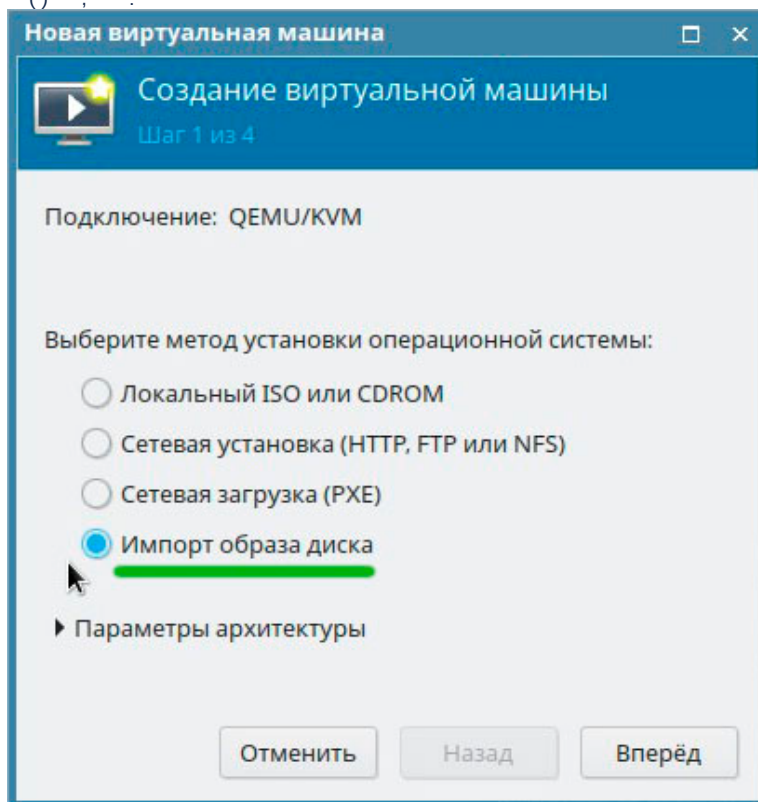
[ALP-raw](#) [Astra Linux Special Edition](#) () . , .

ALP-

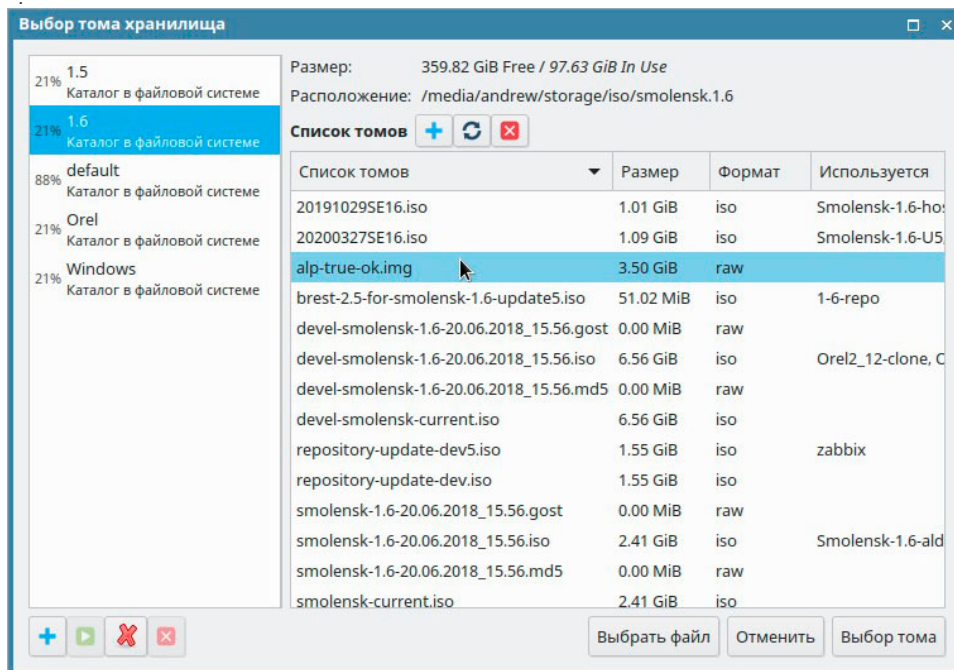
[ALP-raw](#) [KVM](#) :

1. [KVM](#).

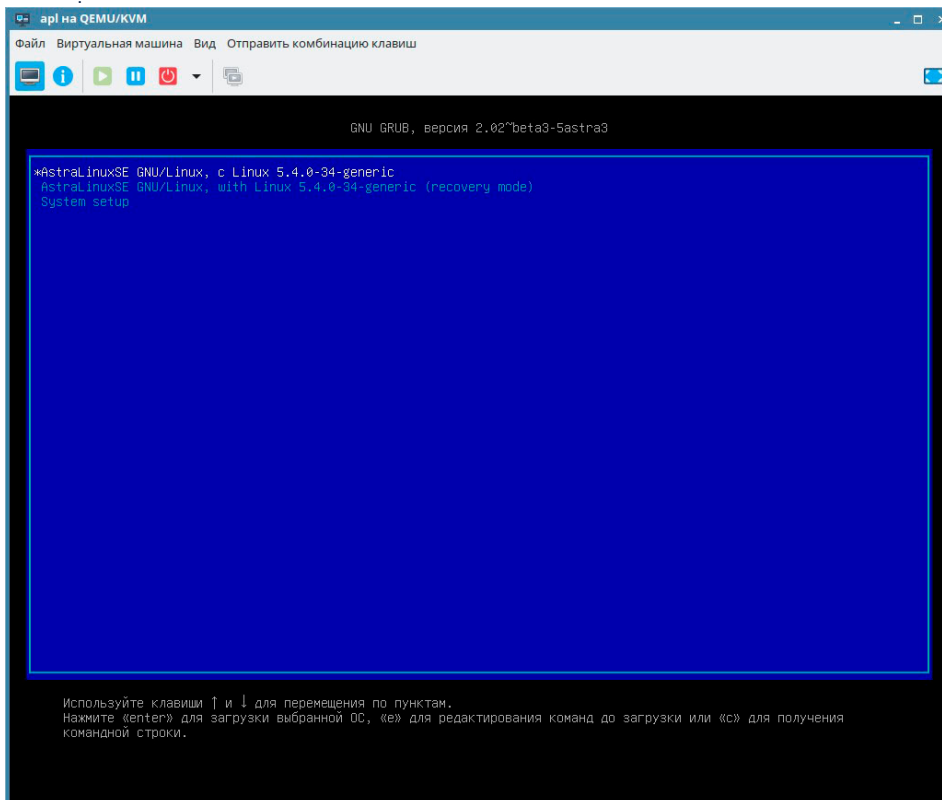
2. () , " ":



3. :



4.



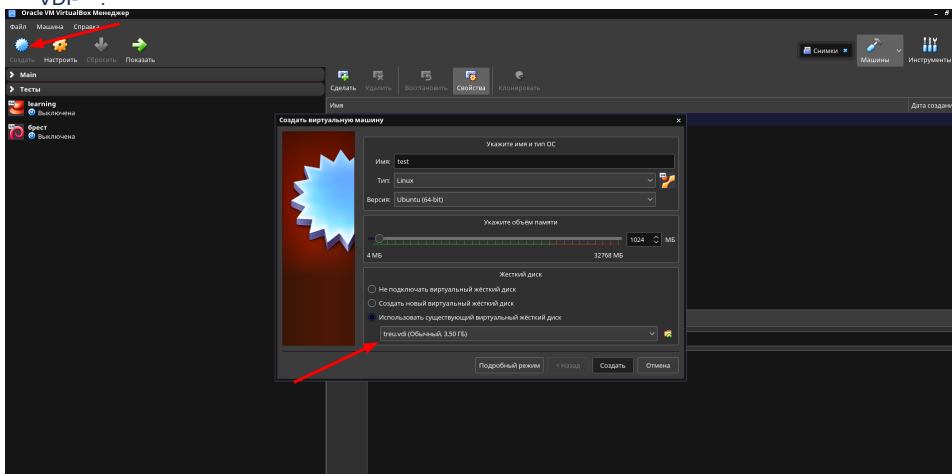
VirtualBox

1. Virtualbox ALP- VirtualBox VDI :

```
VBoxManage convertdd input.img output.vdi
```

input output — .

2. VDI- :



- 3.

ALP-raw :

1. ALP- , , [USB-flash](#).
2. , .
3. BIOS, , .

ALP- .

ALP-raw CD-ROM Astra Linux Special Edition :

```
sudo apt-cdrom add
```

, :

```
sudo apt install _
```

[synaptic](#). :

- [Astra Linux](#)
-

deb- :

```
sudo apt install ./__1 ./__2 ./__3
```

ALP-raw Live-, Live-CD Astra Linux Common Edition: .
Live-, [Gparted Live](#), Ubuntu .. ([gparted](#)) .

1. ALP- Live-
2. Live-.
3. Live- ALP-.

read-only .

ALP-raw read-only astra-overlay. initrd overlayfs over tmpfs . , . - , , /home.

astra-overlay NetworkManager

1. astra-overlay Astra Linux Special Edition .10015-01 (1.6) [20190912SE16](#) (3). , ().
2. /home/system-connections:

```
sudo mkdir /home/system-connections
```

3. astra-overlay(sudo astra-overlay status) /etc/fstab, ():

```
/home/system-connections /etc/NetworkManager/system-connections none bind 0 0
```

```
/etc/NetworkManager/system-connections ( ) /home/system-connections ( ). - /etc/NetworkManager/system-connections /home/system-connections.
```

4. :

```
sudo mount -a
```

5. astra-overlay :

```
sudo astra-overlay enable
```

6. , , , Wi-Fi . Wi-Fi (SSID) .

ALP-raw USB-, Rutoken flash, Jacarta flash

ALP-raw USB- dd:

```
sudo dd if=/path/to/raw.img of=/dev/_____
```

/path/to/raw.img - raw-, USB-, , .

:

```
lsblk
```

:

- status=progress - . - ();
- bs=value . value 16K, 1M, 4M - ., 8GB , bs=4M. - .

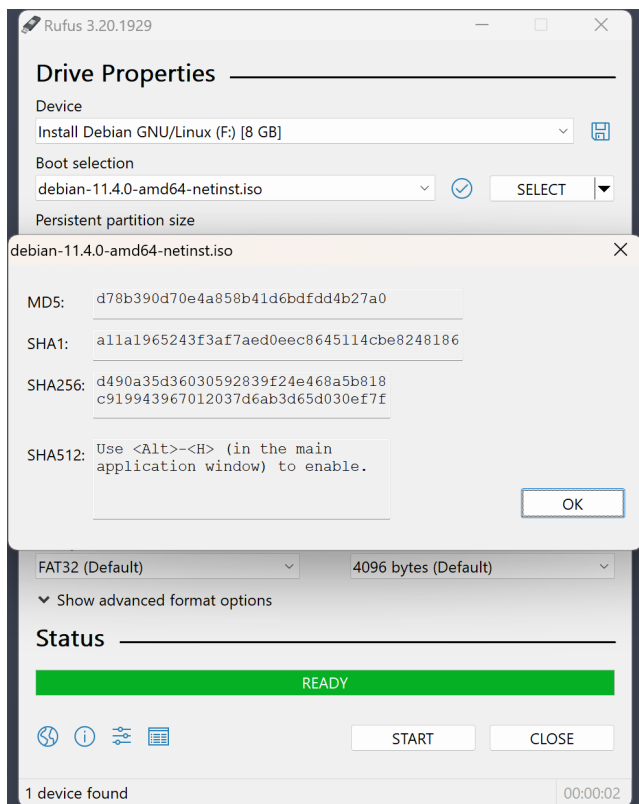
dd :

```
sudo dd if=/path/to/raw.img of=/dev/sdz status=progress bs=4M
```

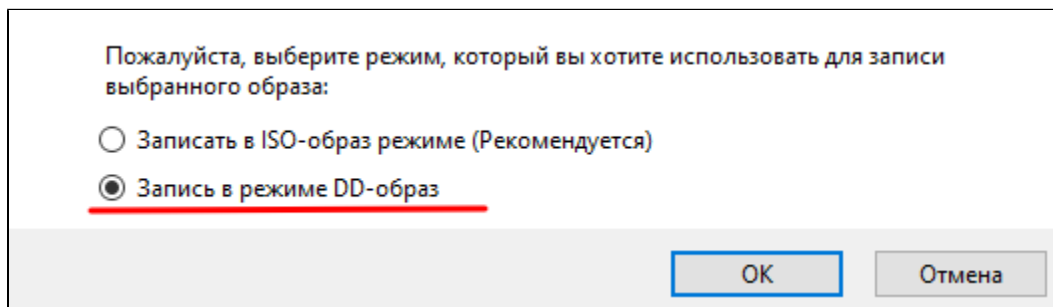
man .

ALP-raw Windows

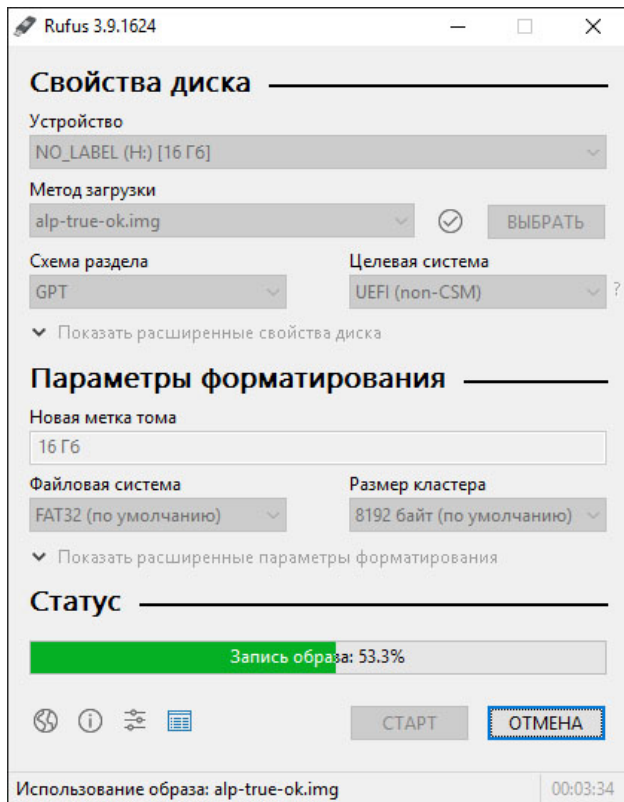
USB- Windows, Rufus:



dd:



:



ISO- DD- USB- Windows. ALP-.

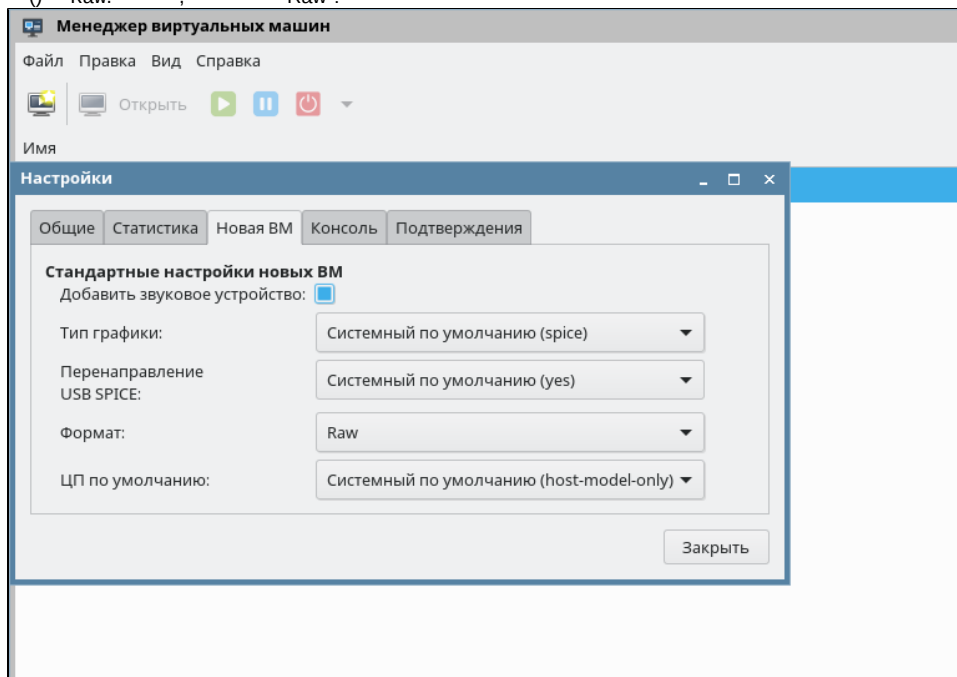
ALP-raw .

virt-manager

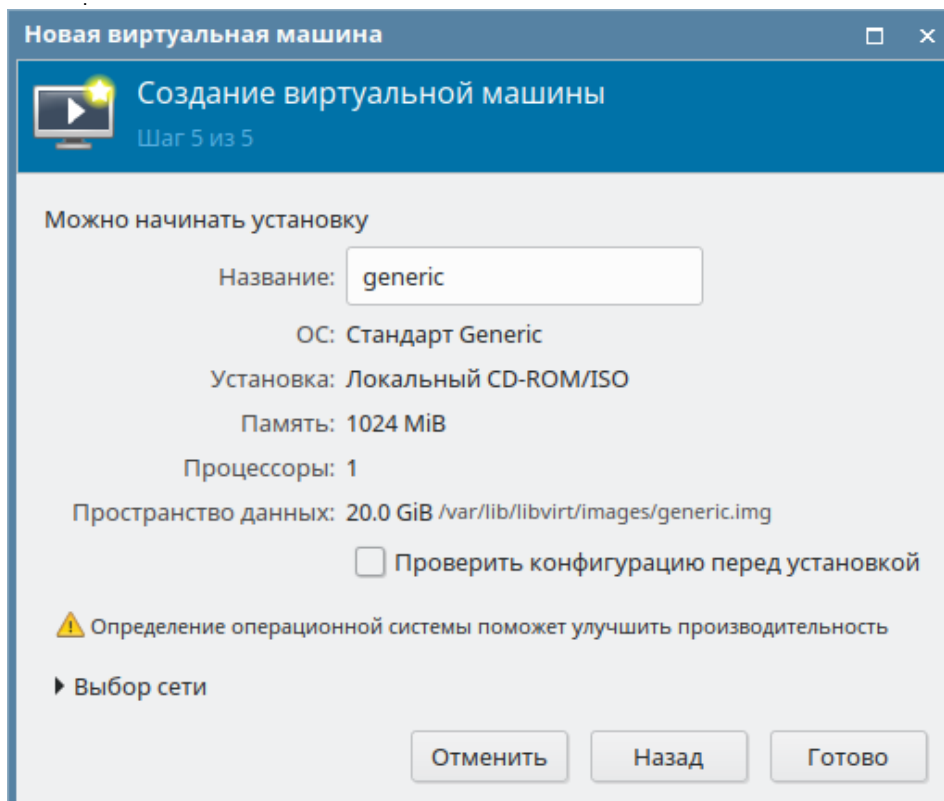
1. , , ovmf UEFI-. . <https://packages.debian.org/stretch/ovmf>.

```
wget http://ftp.de.debian.org/debian/pool/main/e/edk2/ovmf_0~20161202.7bbe0b3e-1+deb9u1_all.deb
sudo apt install ./ovmf_0~20161202.7bbe0b3e-1+deb9u1_all.deb
```

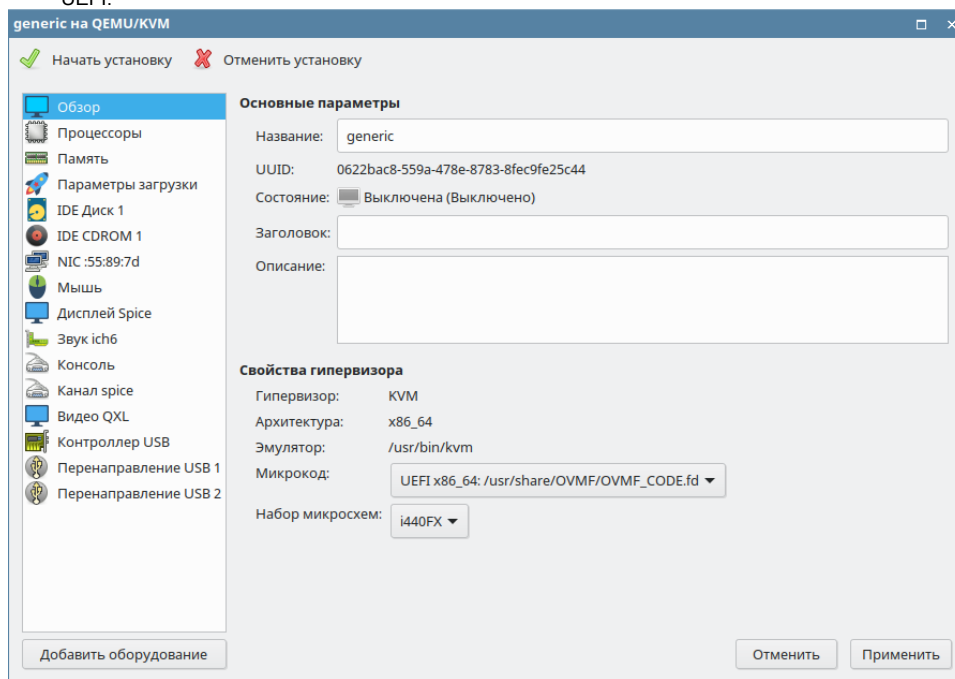
2. () Raw. "" "", "" "" "Raw":



3. " ":

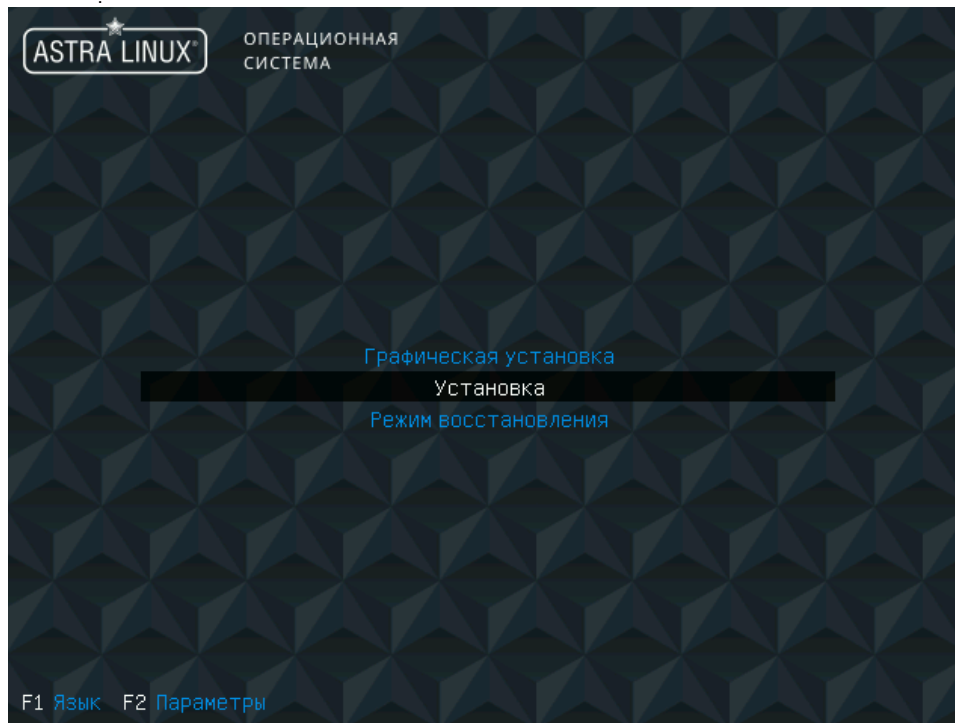


4. UEFI:

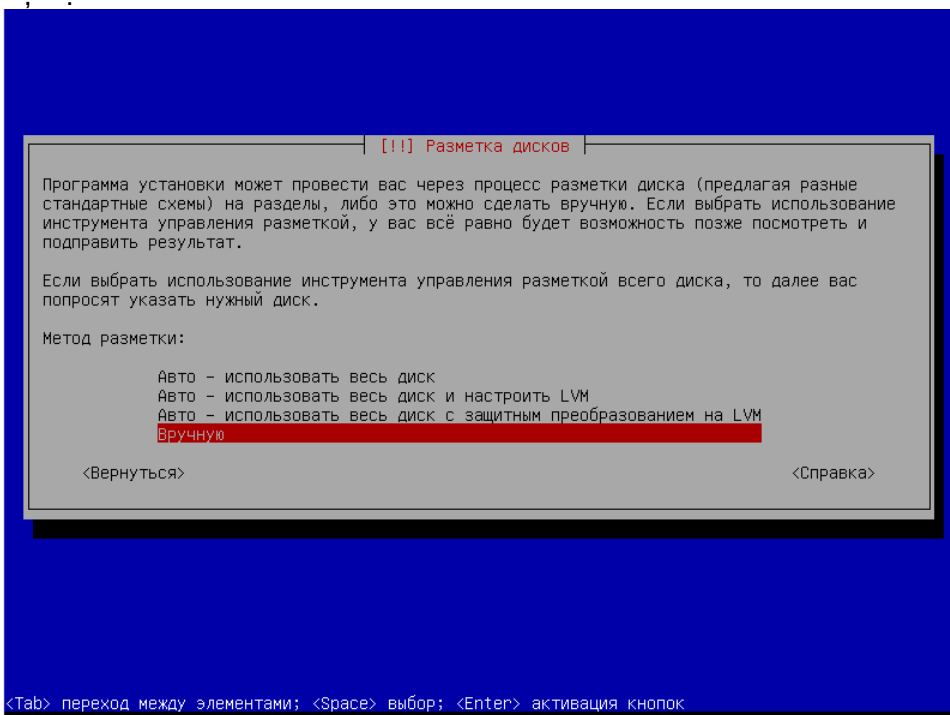


5. , , ..
6. , ALP-.
7. .

1. " " " :

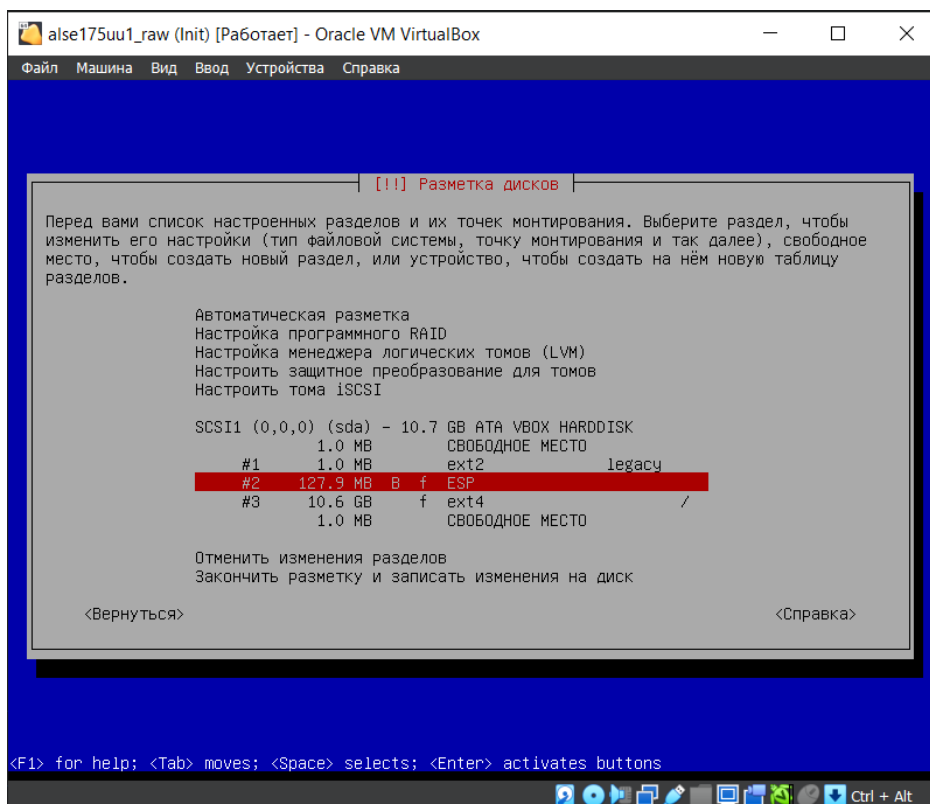


2. , "":



3. 3 :

1. grub-pc Legacy;
- ESP. grub ;
- (root).



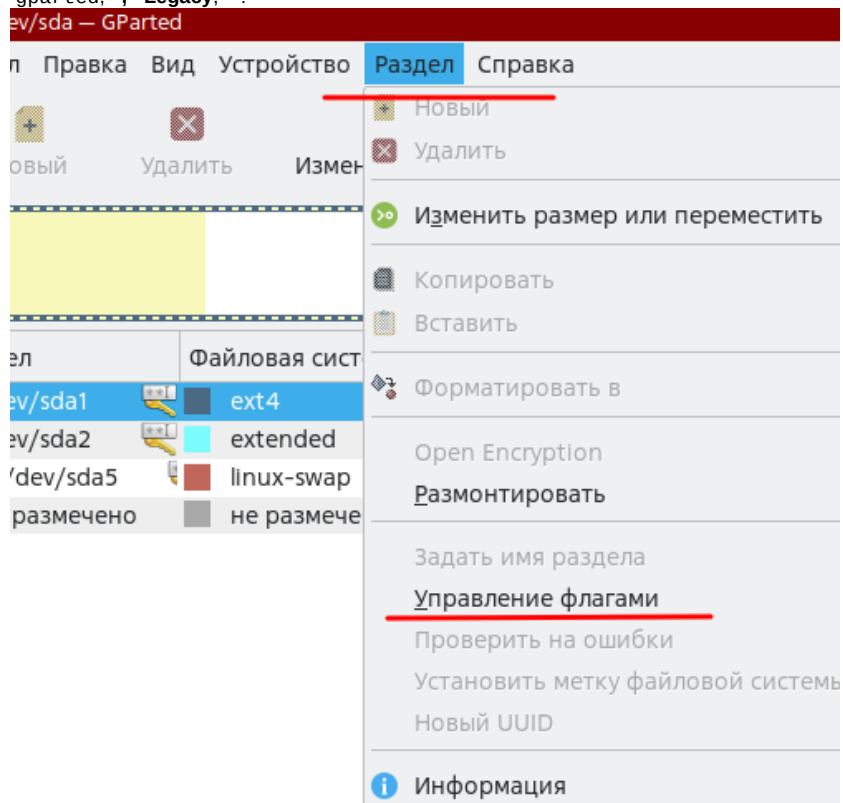
4. (root) .

5. .

6. grub-pc-bin gparted:

```
sudo apt install grub-pc-bin gparted
```

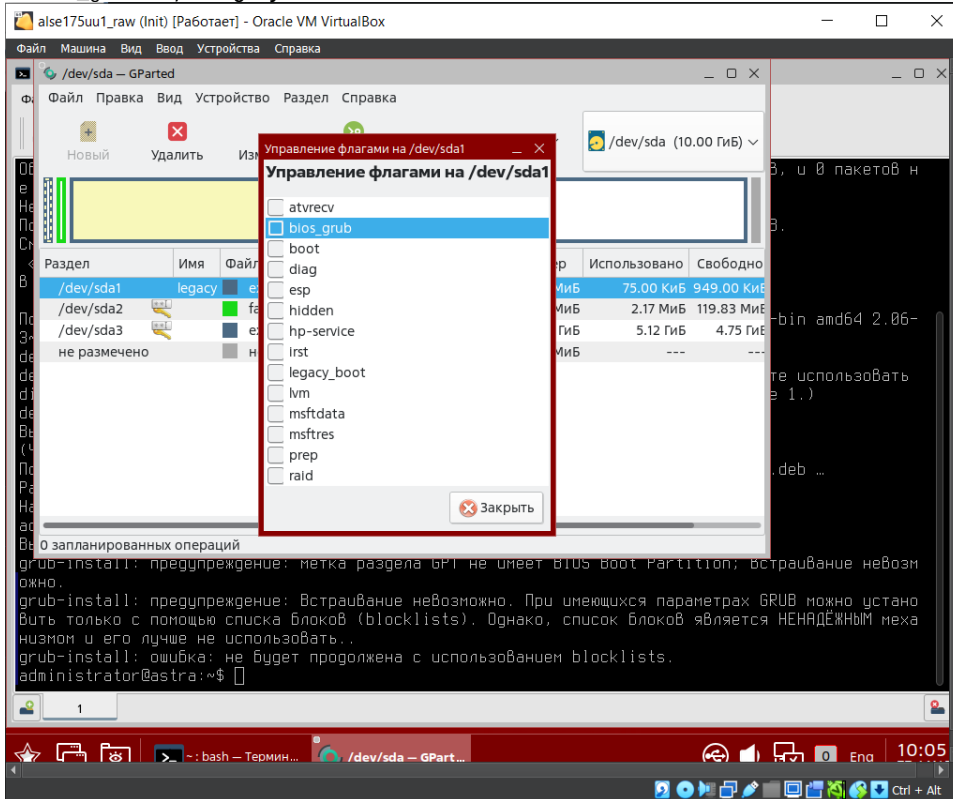
7. gparted, , Legacy, :



grub ,

gparted

8. bios_grub , Legacy:

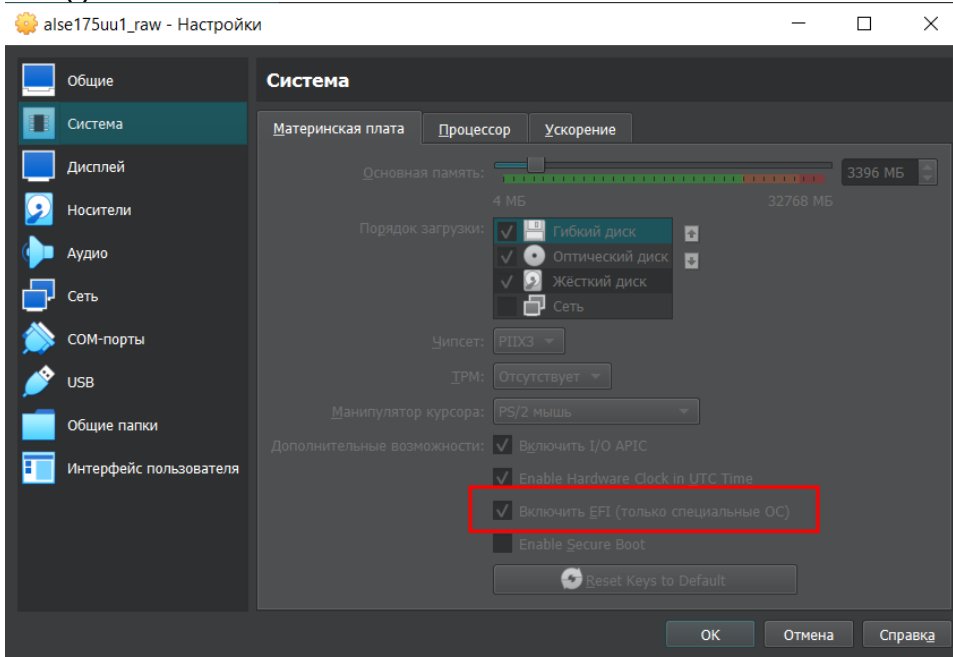


9. grub , Legacy:

```
sudo grub-install --target=i386-pc /dev/sda
```

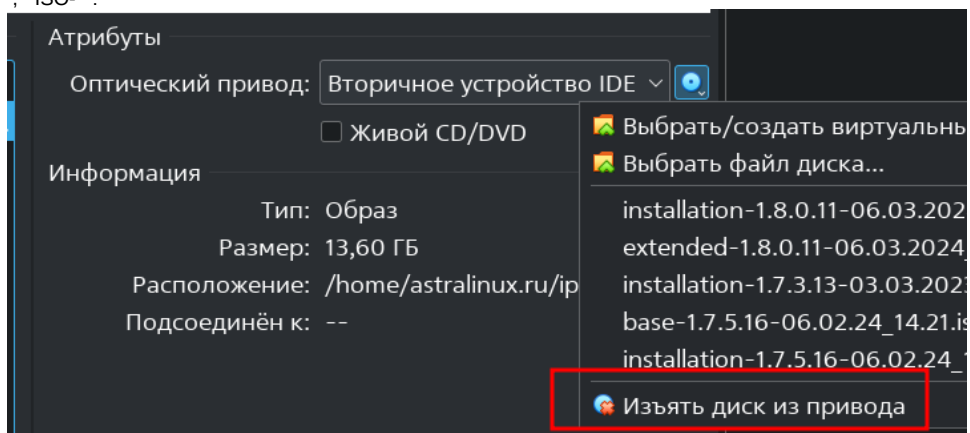
VirtualBox

1. .
2. "EFI ()":

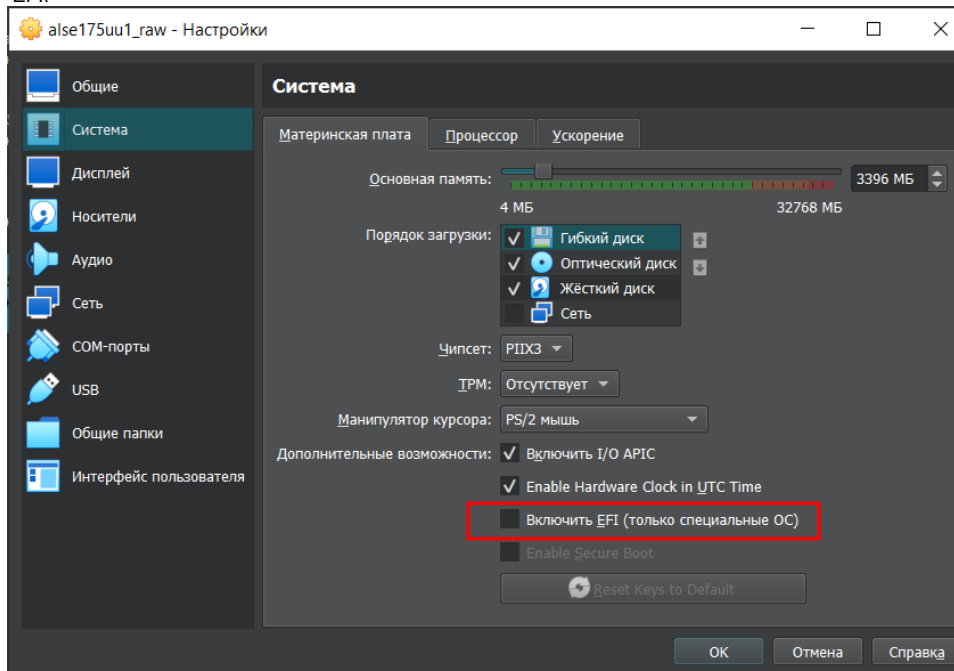


3. .
4. .

5. , ISO- :



6. EFI:



ALP-

Legacy EFI.

ALP-.

, bios_grub.