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- preseed.cfg
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- Chroot
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- ISO-



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- Astra Linux Special Edition .10015-01 .10015-10 (1.7)
 - Astra Linux Special Edition .10015-01 (1.6)
 - Astra Linux Special Edition .10015-16 .1
 - Astra Linux Common Edition 2.12

.. : <https://wiki.debian.org/DebianInstaller/Modify/CD>



- , , . . Astra Linux . Astra Linux .
• , Astra Linux Special Edition

.. Astra Linux Special Edition .10015-01 1.7. DEB- preseed-., (udebs) . udeb (. how to build a full image with a custom kernel).
, (Astra Linux Special Edition -) , () .

```
sudo apt install bsdtar reprepro xorriso build-essential debootstrap
```

1. :

```
mkdir ~ /cd
```

2. ISO- :

```
bsdtar -xf <__> -C ~ /cd
```

3. :

```
chmod -R +w ~ /cd
```

cd cd , .



1. , . , :

```
mail="<__>"
```

:

```
mail="support@organization.ru"
```

2. gen-key.cfg . :

```
Key-Type: 1
%no-protection
Key-Length: 4096
Subkey-Type: 1
Subkey-Length: 4096
Name-Real: <__>
Name-Email: <__>
Expire-Date: 0
```

(support, mail):

```
echo "Key-Type: 1
%no-protection
Key-Length: 4096
Subkey-Type: 1
Subkey-Length: 4096
Name-Real: support
Name-Email: $mail
Expire-Date: 0" > gen-key.cfg
```

3. :

```
gpg --batch --gen-key gen-key.cfg
```

```
:  
--batch - ;  
--gen-key - ;  
gen-key.cfg - .
```

4. <__>.gpg.key (mail):

```
gpg --armor --output "$mail.gpg.key" --export "$mail"
```

```
:  
--armor - ASCII;  
--output "$mail.gpg.key" - , ( );  
--export "$mail" - () ( );
```

5. Astra Linux:

```
sudo gpg --no-default-keyring --keyring /usr/share/apt/astra-archive.gpg --import "$mail.gpg.key"
```

, Astra Linux,

 , , /boot/grub/grub.cfg debian-installer/allow-unauthenticated=true.

, , . UDEB-:

1. :

```
gpg --output "$mail.gpg" --export "$mail"
```

, ASCII;

2. :

```
sudo chmod 644 "$mail.gpg"
```

3. UDEB- . aptkey:
a. . :

```
package="aptkey"
```

b. :

```
mkdir -p "$package/DEBIAN"
```

c. \$package/DEBIAN/control ():

```
echo "Package: $package
Version: 1.0
Section: debian-installer
Priority: important
Architecture: all
Essential: no
Installed-Size: 1024
Maintainer: $mail
#Package-Type: udeb
#XC-Package-Type: udeb
Description: Add own keyring to apt
Depends: apt" > "$package/DEBIAN/control"
```

d. \$package/DEBIAN/postinst (, 0()):

```
echo "exit 0" > "$package/DEBIAN/postinst"
chmod 0755 "$package/DEBIAN/postinst"
```

e. :

```
mkdir -p "$package/etc/apt/trusted.gpg.d"
cp "$mail.gpg" "$package/etc/apt/trusted.gpg.d/"
```

"\$package/etc/apt/trusted.gpg.d" /etc/apt/trusted.gpg.d;

f. :

```
dpkg-deb --build "$package"
```

g. :

```
sudo mv "$mail.gpg" /etc/apt/trusted.gpg.d/
```



"-()".

a. . cache:

```
mkdir -p cache
```

b. DEB- UDEB- :

```
find cd/pool -name *.deb -print -exec mv {} cache \;
find cd/pool -name *.udeb -exec mv {} cache \;
```

c. () :

```
mv "$package.deb" "cache/${package}_1.0.deb"
```

d. :

```
rm -rf $HOME/cd/{db,dists,pool}
```

e. :

i. ;
ii. ;

f. ~/cd/conf:

```
mkdir -p ~/cd/conf
```

g. ~/cd/conf/distributions :

```
echo 'Origin: Debian
Codename: 1.7_x86-64
Suite: stable
Version: 1.7.0
Architectures: amd64
Components: main contrib non-free
UDebComponents: main
SignWith: yes' > ~/cd/conf/distributions
```

Astra Linux Special Edition .10015-01 1.7, amd64, main, contrib, nonfree. ;

1. :

```
reprepro -b cd/ export 1.7_x86-64
```

2. :

```
gpg --yes --armor -o ~/cd/dists/1.7_x86-64/Release.gpg -sb ~/cd/dists/1.7_x86-64/Release
```

3. , cache:

```
reprepro --ask-passphrase -Vb cd includedeb 1.7_x86-64 cache/*.deb  
reprepro --ask-passphrase -Vb cd includeudeb 1.7_x86-64 cache/*.udeb
```

4. :

```
cd ~/cd; find ! -name md5sum.txt ! -name gostsums.txt -follow -type f -  
print0 | xargs -0 md5sum > md5sum.txt ; cd ..
```



find: ; ...

5. :

```
ln -s 1.7_x86-64 ~/cd/dists/stable
```

6. ~/cd/conf :

```
rm -rf ~/cd/conf ~/cd/db cache
```

preseed.cfg

- preseed.cfg. . . , . . .

preseed.cfg:

1. USB-() preseed:

- a. .
- b. (, preseed.cfg) ;
- c. boot/grub/grub.cfg (linux) preseed, :

```
linux /install.amd/vmlinuz quiet modprobe.blacklist=evbug astra_install=1 nomodeset debian-installer/locale=ru debian-installer/language=ru keyboard-configuration/xkb-keymap=ru console-keymaps-at/keymap=ru preseed/file=/cdrom/preseed.cfg
```

d. .

2. (CD-ROM, DVD-ROM) USB-:

- a. :
 - i. USB- .
 - ii. USB- vfat :



(, sdh), (sdh1).

```
sudo mkfs.vfat -I /dev/<_>
```

- iii. .
- iv. preseed .
- v. .

b. :

- i. .
- ii. Enter ().
- iii. F2. .
- iv. Esc. , .
- v. preseed, /cdrom, /media, :

```
linux /install.amd/vmlinuz quiet modprobe.blacklist=evbug astra_install=1 nomodeset
debian-installer/locale=ru debian-installer/language=ru keyboard-configuration/xkb-
keymap=ru console-keymaps-at/keymap=ru preseed/file=/media/preseed.cfg
```

- vi. Enter.

, , . preseed.

preseed.cfg

, preseed.cfg . . Astra Linux (UEFI Legacy BIOS).

preseed.cfg, :

- 1. . , ;
- 2. preseed.cfg ;
- 3. .

```
:  
  
for n in ~/cd/install.amd ~/cd/install.amd/gtk ~/cd/hd-media ~/cd/hd-media
/gtk; do
    if [ -d $n ] ; then
        pushd `mktemp -d`
        chmod u+w $n $n/initrd.gz
        cat $n/initrd.gz | gzip -d | sudo cpio -i
        sudo cp ~/preseed.cfg .
        sudo find | cpio -o --format=newc | gzip -9c > $n/initrd.gz
        sudo rm -rf *
        chmod -R -w $n
        popd
    fi
done
```

, (,, pressed.cfg), , hd-media.

```
:  
  
cd ~/cd; find ! -name md5sum.txt -follow -type f -print0 | xargs -0 md5sum
> md5sum.txt ; cd ..
```

 find: ; ...

1. :

```
sudo mount -o bind $HOME/cd /mnt
```

Chroot

1. chroot- :

 Astra Linux Special Edition .10015-01 (1.7) Astra Linux, 1.7, debootstrap debian-archive-keyring 1.7 (. Astra Linux).

```
sudo debootstrap --components=main,contrib,non-free --arch=amd64 1.7_x86-64 chroot "file:///mnt"
```

1. /etc/apt/sources.list.d/mounted.list :

```
echo "deb file:/mnt 1.7_x86-64 main contrib non-free" | sudo tee /etc/apt/sources.list.d/mounted.list
```

2. :

```
sudo rm -fr /var/lib/apt/lists/*
```

3. :

```
sudo apt update
```

4. , :

```
apt policy <__>
```

5. /etc/apt/sources.list.d/mounted.list:

```
sudo rm /etc/apt/sources.list.d/mounted.list
```

6. :

```
sudo apt update
```

:

```
sudo umount /mnt
```

ISO-

1. MBR ISO- :

```
dd if=<____ISO-> bs=1 count=432 of=isoahdpx.bin  
isoahdpx.bin;
```

2. ISO-:

```
xorriso -as mkisofs -isohybrid-mbr isoahdpx.bin -b isolinux/isolinux.  
bin -no-emul-boot -boot-load-size 4 -boot-info-table -c isolinux/boot.  
cat -V "WIKI_ISO" \  
-eltorito-alt-boot -e boot/grub/efi.img -no-emul-boot -isohybrid-  
gpt-basdat -append_partition 2 0xef cd/boot/grub/efi.img \  
-o wiki.iso ~/cd
```

-V (volume id) (WIKI_ISO), -o , (- wiki.iso). .man xorriso.

3. : isoahdpx.bin:

```
rm isoahdpx.bin
```