

# Astra Linux (UEFI Legacy BIOS)

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1. Astra Linux (. [Astra Linux](#));
2. Astra Linux Special Edition .10015-01 ( 1.7) Astra Linux Special Edition .10152-02 ( 4.7) . . [Astra Linux Special Edition \( x.7\)](#):



- VMSVGA Oracle VirtualBox;
- cirrus qxl Virt Manager.

## PXE Astra Linux

**PXE** (.Preboot eXecution Environment) — : <https://www.debian.org/releases/buster/amd64/apbs02.en.html>.  
Astra Linux

PXE Astra Linux

### preseed

preseed

- preseed.cfg Astra Linux Special Edition .10015-01 ( 1.7) . [preseed.cfg Astra Linux Special Edition .10015-01 1.7](#);
- preseed.cfg Astra Linux Special Edition .10015-01 ( 1.6): [preseed\\_se16.cfg](#).
- preseed.cfg Astra Linux Common Edition 2.12: [preseed\\_ce.cfg](#).

preseed.cfg, :

sudo cp preseed\_se16.cfg /srv/tftp/se/preseed.cfg

sudo cp preseed\_ce.cfg /srv/tftp/ce/preseed.cfg

preseed:

1. :



a. HTTP- :

```
#  
#      ftp, mirror/country string  
d-i mirror/protocol string http  
d-i mirror/country string manual  
d-i mirror/http/hostname string 192.168.56.1  
# Astra Linux Special Edition .10015-01 ( 1.6)  
d-i mirror/http/directory string /repo/se  
#, Astra Linux Common Edition 2.12  
#d-i mirror/http/directory string /repo/ce  
d-i mirror/http/proxy string
```

b. FTP-:

```
d-i mirror/protocol string ftp  
d-i mirror/ftp/hostname string 192.168.56.1  
d-i mirror/ftp/directory string /repo/se  
#, Astra Linux Common Edition 2.12  
#d-i mirror/ftp/directory string /repo/ce  
d-i mirror/ftp/proxy string
```

2. :

```
#      $TZ;  
#      /usr/share/zoneinfo/.  
d-i time/zone string Europe/Moscow
```

3. ( , ( . (swap): )):

```
#  
# .  
# : () .  
#d-i partman-auto/init_automatically_partition \  
# select -  
  
# .  
# -devfs .  
#, SCSI/SATA:  
#d-i partman-auto/disk string /dev/sda  
# :  
# , .  
# .  
# : "regular", "lvm" "crypto"  
d-i partman-auto/method string regular  
  
# UEFI  
  
# d-i partman-efi/non_efi_system boolean true
```

```
# , LVM,
# , ...
d-i partman-auto/purge_lvm_from_device boolean true
# lvm .
d-i partman-lvm/confirm boolean true

#
#: () .
#

# legacy bios:
d-i partman-auto/choose_recipe select atomic

# UEFI:
# d-i partman-auto/choose_recipe select /lib/partman/recipes-amd64-efi/30atomic

# partman
#
d-i partman/confirm_write_new_label boolean true
d-i partman/choose_partition select finish
d-i partman/confirm boolean true
d-i partman-auto-crypto/erase_disks boolean true
d-i partman-basicfilesystems/no_swap boolean true
d-i partman-target/mount_failed boolean true
d-i partman-partitioning/unknown_label boolean true
d-i partman-auto/purge_lvm_from_device string true
d-i partman-lvm/vgdelete_confirm boolean true
d-i partman/confirm_write_new_label string true
d-i partman-lvm/confirm boolean true
d-i partman/confirm_nooverwrite boolean true
```

4. (user) :



12345678 , . :

```
openssl passwd -1
```

```
# .
d-i passwd/user-fullname string u
d-i passwd/username string u

#
#d-i passwd/user-password password 12345678
#d-i passwd/user-password-again password 12345678

# MD5 .
d-i passwd/user-password-crypted password $1$EPkHS/dI$0t123aI/oMBBNdBVZP0o.1
```

5. :

```
tasksel tasksel/first multiselect Base, Fly
#           /usr/share/tasksel/debian-tasks.desc
```

:

```
# 
d-i pkgsel/include string openssh-server
```

6. . , MBR. Astra Linux Common Edition 2.12 , :

```
#      ALCE
grub-installer grub-installer/choose_bootdev select /dev/sda
d-i grub-pc/install_devices multiselect /dev/sda

#      grub
# ,      mbr,
# :
#d-i grub-installer/only_debian boolean false
#d-i grub-installer/with_other_os boolean false
#d-i grub-installer/bootdev string (hd0,0)
#d-i grub-pc/install_devices multiselect /dev/sda
#      grub :
#d-i grub-installer/bootdev string (hd0,0) (hd1,0) (hd2,0)
```

7. :



12345678 . . :

```
openssl passwd -1
```

!

```
#      grub,
#d-i grub-installer/password password 12345678
#d-i grub-installer/password-again password 12345678
#grub-installer grub-installer/password-mismatch error
#      MD5, grub-md5-crypt(8).
d-i grub-installer/password-crypted password $1$EPkHS/dI$0t123aI/oMBBNdBVZP0o.1
```

8. , ssh:

```
# ,
# /target. chroot /target
# ,
# apt-install in-target
#
d-i preseed/late_command string in-target systemctl enable ssh.service
```

, BIOS/UEFI , Astra Linux. . , . :

```
sudo debconf-get-selections --installer > preseed.new
sudo debconf-get-selections >> preseed.new
```

preseed.new ,

Astra Linux Common Edition 2.12 late-command:

```
d-i preseed/late_command string in-target apt update; in-target apt dist-upgrade;
```

Astra Linux Special Edition update.service ftp http :

```
[Unit]
Description=Update system
After=rc-local.service network-online.target
Before=getty.target
Before=systemd-user-sessions.service

[Service]
StandardOutput=tty
Type=oneshot
ExecStart=/usr/local/bin/update.sh

[Install]
WantedBy=multi-user.target
```

update.sh . . :

```
#!/bin/bash

clear
# /etc/apt/sources.list ( - server,    ftp):
echo "deb ftp://server/repo/se/mounted-iso-main smolensk main contrib non-free" > /etc/apt/sources.list
echo "deb ftp://server/repo/se/mounted-iso-devel smolensk main contrib non-free" >> /etc/apt/sources.list
echo "deb ftp://server/repo/se/repository-update smolensk main contrib non-free" >> /etc/apt/sources.list
echo "deb ftp://server/repo/se/repository-update-dev smolensk main contrib non-free" >> /etc/apt/sources.list

echo "Updating system, please wait..."
echo "Do not turn off your computer!"
apt-get update &> /dev/null
apt-get -y dist-upgrade &> /dev/null
apt-get -y install chromium &> /dev/null
rm -f /etc/systemd/system/multi-user.target.wants/update.service
systemctl daemon-reload
rm -f /usr/local/bin/update.sh
reboot
```

preseed . :

```
d-i preseed/late_command string in-target systemctl enable ssh ; \
in-target wget -O /usr/local/bin/update.sh ftp://10.0.2.20/se/update.sh; \
in-target chmod +x /usr/local/bin/update.sh; \
in-target wget -O /lib/systemd/system/update.service ftp://10.0.2.20/se \
/update.service; \
in-target systemctl enable update.service;
```

## partman-auto

[partman-auto](#)

E . , , , , , - USB- . , interface, interface=eth1.

(, ) . :

1. ftp- . :

```
#!/bin/sh
kill-all-dhcp; netcfg
```

DHCP netcfg ( .).

2. . :

```
sudo chmod +x <__>
```

3. :

```
d-i preseed/run string ftp://<__>
```

debconf:

d-i netcfg/enable boolean false	. . .
d-i netcfg/choose_interface select auto	, , ,
d-i netcfg/choose_interface select eth1	( - eth1).
d-i netcfg/link_wait_timeout string 10	(link) ( 3 ).
d-i netcfg/dhcp_timeout string 60 d-i netcfg/dhcpv6_timeout string 60	DHCP
d-i netcfg/disable_autoconfig boolean true	, .
d-i netcfg/dhcp_failed note d-i netcfg/dhcp_options select Configure network manually	DHCP-
d-i netcfg/get_nameservers string 192.168.1.1 d-i netcfg/get_ipaddress string 192.168.1.42 d-i netcfg/get_netmask string 255.255.255.0 d-i netcfg/get_gateway string 192.168.1.1 d-i netcfg/confirm_static boolean true	( IPv4).
d-i netcfg/get_ipaddress string fc00::2 d-i netcfg/get_netmask string ffff:ffff:ffff:ffff:: d-i netcfg/get_gateway string fc00::1 d-i netcfg/get_nameservers string fc00::1 d-i netcfg/confirm_static boolean true	( IPv6).
d-i netcfg/hostname string somehost	(, DHCP DNS ).
d-i netcfg/wireless_wep string	WEP
d-i netcfg/dhcp_hostname string radish	DHCP-, .
d-i hw-detect/load_firmware boolean true	( false ).
netcfg/get_netmask string 255.255.255.0	. .
netcfg/get_gateway string 192.168.1.1	. . none , .

## preseed Astra Linux Special Edition .10015-01 1.7

preseed Astra Linux Special Edition 1.7 . [preseed Astra Linux Special Edition .10015-01 1.7.](#)

- :  
1. - Astra Linux Special Edition .10015-01 1.7 ( - Astra Linux Special Edition x.7);  
2. /boot /tmp ( . Astra Linux):

```
d-i partman-auto/expert_recipe string myroot :: \
    512 16384 512 ext2 \
        $primary{ } $bootable{ } \
        method{ format{ } use_filesystem{ } filesystem{ ext2 } mountpoint{ /boot } . \
    8192 16384 16384 ext4 \
        method{ format{ } use_filesystem{ } filesystem{ ext4 } mountpoint{ / } . \
    2048 16384 2048 ext4 \
        method{ format{ } use_filesystem{ } filesystem{ ext4 } mountpoint{ /tmp } options \
/noexec{ noexec } options/nodev{ nodev } options/nosuid{ nosuid } . \
    500 8192 -1 ext4 \
        method{ format{ } use_filesystem{ } filesystem{ ext4 } mountpoint{ /home } .
d-i partman-auto/choose_recipe select myroot
```

3. ( Base packages Fly desktop), SSH Server :

```
tasksel tasksel/first multiselect Base packages, Fly desktop, SSH server
```

Astra Linux Directory (ALD) ;

4. - astra 12345678;

5. c , :  
a. :

```
d-i astra-additional-setup/os-check select Maximum security level Smolensk
```

b. :

```
d-i astra-additional-setup/os-check select Advanced security level Voronezh
```

c. :

```
d-i astra-additional-setup/os-check select Base security level Orel
```

6. , . :  
a. :

```
d-i astra-additional-setup/additional-settings-smolensk multiselect Enable Mandatory Integrity \
Control, Enable Mandatory Access Control, Disable ptrace capability
```

b. :

```
d-i astra-additional-setup/additional-settings-voronezh multiselect Enable Mandatory Integrity \
Control, Disable ptrace capability
```

c. :

```
d-i astra-additional-setup/additional-settings-orel multiselect Disable ptrace capability
```

7. :

```
d-i clock-setup/ntp boolean true
d-i clock-setup/ntp-server string ntp2.vniiftri.ru
```

8. :  
i. ntp, systemd-timesyncd.service (. Astra Linux):

```
d-i preseed/late_command string in-target apt purge -y ntp ; \
                           in-target systemctl enable systemd-timesyncd.service ; \
```

a. :

```
in-target rm -f /etc/NetworkManager/system-connections/*;
```

( ).

## (rescue mode)

! ( ) .

, pxelinux.cfg/default , preseed. , preseed.cfg:

```
LABEL netinstall
  MENU LABEL Start Astra Linux 1.07.02 rescue
  kernel 1.07.00/linux
  append initrd=ce/initrd.gz modprobe.blacklist=evbug auto=true priority=critical debian-installer
  /locale=en_US console-keymaps-at/keymap=ru hostname=ce212 domain=my.dom astra-license/license=true
  url=tftp://192.168.56.1/ce/preseed.cfg interface=auto netcfg/dhcp_timeout=60 vga=788 debian-installer
  /allow_unauthenticated=true rescue/enable=true
```

:

```
rescue/enable=true
```