

2022-0926SE47 (4.7.2)

i 4.7.2 , "Astra Linux Special Edition" .10152-02 (4.7), - Astra Linux.

- i** :
- () (- main);
 - (base);
 - (extended);
 - .

- i** :
- 2022-0407SE47MD
 - 2022-0318SE47MD
 - 2022-0201SE47MD
 - 2022-0114SE47 (4.7.1)
 - 2021-0915SE47MD

- i** :
- , 2022-0926SE47 (4.7.2)
 - 2022-0926SE47 (4.7.2):
 - , 2022-0926SE47 (4.7.2)
 - , 2022-0926SE47 (4.7.2)

i : 4.7.2.5
: Astra Linux

-
-
- (main)
- (main) - Astra Linux
- (base) - Astra Linux
- tar- (base)
-
- Firefox
- Chromium
- « »
-

! Linux, 4.7.2, TF307-MB-S-C rev3.0 sdk-5.4.
, Astra Linux

! , , (base).

✓ (base) (main), .

! ().

! !
(,) (- main) fly-admin-int-check gostsums.txt, repository-update.iso.

! !
() Astra Linux (, « ») , Astra Linux.



- ;
- 2022-0926SE47 (4.7.2);
- :fly-astra-update astra-update -



```
df -h /boot
```

```
75.     /boot,    /boot ( 512 ).  
boot  LVM.
```

(main)

1. - :
https://dl.astralinux.ru/astra/frozen/4.7_arm/4.7.2/iso/repository-update.iso

```
wget https://dl.astralinux.ru/astra/frozen/4.7_arm/4.7.2/iso/repository-  
update.iso
```

2. ISO- /mnt . :
• , 34.11.2012 . :

```
gostsum -d /mnt/repository-update.iso
```

```
a18b3693d4f7e450b899b94c386903d8f44042d981c7ce8fa5558919576defce
```

• ISO- CSP. , . CSP CSP fly-csp.
• :
a. "-" - :
https://dl.astralinux.ru/astra/frozen/4.7_arm/4.7.2/iso/repository-update.iso.sig

```
wget https://dl.astralinux.ru/astra/frozen/4.7_arm/4.7.2/iso  
/repository-update.iso.sig
```

b. /mnt ,
c. /mnt , (-f <__>):

```
/opt/cprocsp/bin/amd64/cryptcp -verify -detached repository-update.iso repository-update.iso.sig -f repository-update.iso.sig
```

, "y" <Enter>

```
[ErrorCode: 0x00000000]
```

(.) /etc/apt/sources.list, :

```
sudo astra-update -a -r -T
```

```
/etc/apt/sources.list , astra-update/fly-astra-update (. fly-astra-update astra-update - ).
```

, , , , :

```
sudo astra-update -a /mnt/<__> /mnt/repository-update.iso
```

, /mnt , /mnt.
fly-astra-update astra-update.

(main) - Astra Linux

 Astra Linux Special Edition .10152-02 (4.7) - . :

- baikal1;
- huawei1;
- mtrust1.

1. - Astra Linux, :

a. , HTTPS, apt-transport-https ca-certificates:

```
sudo apt install apt-transport-https ca-certificates
```

 , - Astra Linux HTTP.

b. /etc/apt/sources.list :

- HTTPS

```
#  
deb https://dl.astralinux.ru/astra/frozen/4.7_arm/4.7.2/repository-main/ 4.7_arm  
main contrib non-free  
# --  
deb https://dl.astralinux.ru/astra/frozen/4.7_arm/4.7.2/repository-main/ 4.7_arm  
<__>
```

```

#
deb https://dl.astralinux.ru/astra/frozen/4.7_arm/4.7.2/repository-update/ 4.7_arm
main contrib non-free
#      -
deb https://dl.astralinux.ru/astra/frozen/4.7_arm/4.7.2/repository-update/ 4.7_arm
<__>

```

- HTTP

```

deb http://dl.astralinux.ru/astra/frozen/4.7_arm/4.7.2/repository-main/ 4.7_arm main
contrib non-free
deb http://dl.astralinux.ru/astra/frozen/4.7_arm/4.7.2/repository-main/ 4.7_arm <__>

deb http://dl.astralinux.ru/astra/frozen/4.7_arm/4.7.2/repository-update/ 4.7_arm main
contrib non-free
deb http://dl.astralinux.ru/astra/frozen/4.7_arm/4.7.2/repository-update/ 4.7_arm <__>

```

2. :

```
sudo apt update
```

3. , :

```
sudo astra-update -a -r -T
```

(base)

- Astra Linux

 Astra Linux Special Edition .10152-02 (4.7) - . :

- baikal1;
- huawei1;
- mtrust1.

1. - Astra Linux, :

a. , HTTPS, apt-transport-https ca-certificates:

```
sudo apt install apt-transport-https ca-certificates
```

 , - Astra Linux HTTP.

b. /etc/apt/sources.list :

- HTTPS

```

#
deb https://dl.astralinux.ru/astra/frozen/4.7_arm/4.7.2/repository-base/ 4.7_arm
main contrib non-free
#      -
deb https://dl.astralinux.ru/astra/frozen/4.7_arm/4.7.2/repository-base/ 4.7_arm
<__>

```

- HTTP

```
deb http://dl.astralinux.ru/astra/frozen/4.7_arm/4.7.2/repository-base/ 4.7_arm main  
contrib non-free  
deb http://dl.astralinux.ru/astra/frozen/4.7_arm/4.7.2/repository-base/ 4.7_arm  
<__>
```

2. :

```
sudo apt update
```

3. , :

```
sudo astra-update -a -r -T
```

tar- (base)



tar- .

1. tar- , .
2. tar- /mnt . :

- , 34.11.2012 . :

```
gostsum /mnt/base-4.7.2-08.09.2022_15.07.tgz
```

:

```
92b0292e3eea832f7f5b2c3e51b1ead4a3a4740103aae4b4a343dceb60518482
```

- tar- CSP., . . CSP CSP fly-csp.
:
- a. "-", ;
b. "/mnt", ;
c. "/mnt", (-f <__>):

```
/opt/cprocsp/bin/amd64/cryptcp -verify -detached base-4.7.2-  
08.09.2022_15.07.tgz base-4.7.2-08.09.2022_15.07.tgz.sig -f  
base-4.7.2-08.09.2022_15.07.tgz.sig
```

, "y" <Enter>.

:

```
[ErrorCode: 0x00000000]
```

3. tar- .
4. tar- , /srv/base-repository:

```
sudo mkdir /srv/base-repository
```

```
sudo tar zxvf base-4.7.2-08.09.2022_15.07.tgz -C /srv/base-repository/
```



, , .

5. /srv/base-repository/ (. Astra Linux). , , :

```
#  
deb file:/srv/base-repository/ 4.7_arm main contrib non-free  
# --  
deb file:/srv/base-repository/ 4.7_arm <__>
```

6. :

```
sudo apt update
```

7. , :

```
sudo astra-update -a -r -T
```



Astra Linux, TF307-MB-S-C rev3.0, sdk-5.4, , .



ca-certificates-local .

Firefox

1. , , : --- Firefox.
2. "about:preferences" <Enter>
3. [].
4. [...].
5. /etc/ssl/certs/rootca_MinDDC_rsa2022.pem [].
6. - [].
7. [].

, []. :

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Chromium

1. , , : --- Chromium.
2. "chrome://settings/certificates" <Enter>
3. [].
4. /etc/ssl/certs/rootca_MinDDC_rsa2022.pem [].
5. [].

:

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« »



4.7.1 Astra Linux « » (fly-notifications), .

« » :

```
sudo apt install fly-notifications
```

qtnotifydaemon .

Linux, 4.7.2, TF307-MB-S-C rev3.0 sdk-5.4. , :

1. bm1000-mbm10.dtb /boot,:

sudo cp -f /usr/lib/firmware/5.4.0-110-generic/device-tree/baikal
/bm1000-mbm10.dtb /boot

2. /boot/grub/grub.cfg — menuentry, , :

devicetree /boot/bm1000-mbm10.dtb