

20231214SE16 (13)

 1.6.13 , "Astra Linux Special Edition" .10015-01 (1.6), - Astra Linux.

 :

- 20230712SE16MD
- 20230525SE16MD
- 20230412SE16MD
- 20230208SE16MD
- 20221220SE16 (12)
- 20220829SE16 (11)
- 20220407SE16MD
- 20220318SE16MD
- 20220201SE16MD
- 20211126SE16 (10)
- 20211008SE16 (9)
- 20210730SE16 (8)
- 20210723SE16MD
- 20210611SE16 (7)
- 20210317SE16MD
- 20210128SE16MD
- 20201207SE16MD
- 20200921SE16MD
- 20200807SE16MD
- 20200722SE16 (6)
- 20200526SE16MD
- 20200327SE16 (5)
- 20191029SE16 (4)
- 20190912SE16 (3)
- 20190712SE16MD
- 20190621SE16MD
- 20190529SE16MD
- 20190222SE16 (2)
- 20181229SE16 (1)

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- 0 .

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- , 20231214SE16 (13)

 Astra Linux: **1.6.13.3**

..: [Astra Linux](#)

 fly-admin-int-check gostsums.txt, re
pository-update-bin.iso.

 Astra Linux (, « ») , Astra Linux.

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 - fly-astra-update/astra-update
 - fly-astra-update/astra-update
 -
 -
 - ISO-
-
- - - Astra Linux
 - - Firefox
 - Chromium

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 , , (:reposito
ry-update-dev.iso).



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- : `fly-astra-update astra-update -` .



!

.

, . :

```
df -h /boot
```

```
100. /boot, /boot ( 512).
```

. boot LVM. .

1. - :
`https://dl.astralinux.ru/astra/frozen/1.6_x86-64/1.6.13/iso/repository-update-bin.iso`
:

```
wget https://dl.astralinux.ru/astra/frozen/1.6_x86-64/1.6.13/iso/  
repository-update-bin.iso
```

2. . :
 - , 34.11-2012 . :

```
gostsum -d repository-update-bin.iso
```

:

```
94e46fe682284203f994f0f7e43afe65dc0343aa3cf93d6352f026247f3059d5
```

- CSP.
CSP CSP fly-csp.
:
a. "-" - :
`https://dl.astralinux.ru/astra/frozen/1.6_x86-64/1.6.13/iso/repository-update-bin.iso.sig`
:

```
wget https://dl.astralinux.ru/astra/frozen/1.6_x86-64/1.6.13/  
iso/repository-update-bin.iso.sig
```

- b. ;
- c. , (-f <_>):

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

, "y" <Enter>.

:

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



1. `sudo` :
https://dl.astralinux.ru/astra/frozen/1.6_x86-64/1.6.13/iso/repository-update-dev.iso
:

```
wget https://dl.astralinux.ru/astra/frozen/1.6_x86-64/1.6.13/iso  
/repository-update-dev.iso
```

2. `sudo` :
 - , 34.11-2012 . :

```
gostsum -d repository-update-dev.iso
```

```
3e609713a1b6b664f87aaec292129039ad90642427473bb109a8fce2f660fbb8
```

- CSP.
CSP CSP fly-csp.
:
a. "-" - :
https://dl.astralinux.ru/astra/frozen/1.6_x86-64/1.6.13/iso/repository-update-dev.iso.sig
:

```
wget https://dl.astralinux.ru/astra/frozen/1.6_x86-64/1.6.13  
/iso/repository-update-dev.iso.sig
```

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

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

```
, "y" <Enter>.
```

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

fly-astra-update/astra-update

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

- fly-astra-update (astra-update):

```
sudo apt update
sudo apt install fly-astra-update
```

- astra-update:

```
sudo apt update
sudo apt install astra-update
```

fly-astra-update/astra-update

1. , , /media/cdrom:

```
sudo mount /mnt/repository-update-bin.iso /media/cdrom
```

2. :
astra-update:

```
sudo apt install /media/cdrom/pool/non-free/a/astra-update/astra-  
update_*.deb
```

astra-update fly-astra-update:

```
sudo apt install /media/cdrom/pool/non-free/a/astra-update/astra-  
update_*.deb  
sudo apt install /media/cdrom/pool/non-free/libf/libflyadmin  
/libflyadminpackage_*.deb  
sudo apt install /media/cdrom/pool/non-free/f/fly-astra-update/fly-  
astra-update_*.deb
```

3. :

```
sudo umount /media/cdrom
```

(.) ISO-:

1. :
• ;
• ;
2. :
• ;
• ;

/etc/apt/sources.list, :

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

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

ISO-

, ISO- :

1. :
 - ;
 - ;
2. :
 - ;
 - ;

ISO- , . astra-update/fly-astra-update, :

```
sudo astra-update -A /mnt/<___> /mnt/repository-update-bin.iso /mnt/<____>
/mnt/repository-update-dev.iso
```

, /mnt , /mnt.
· [fly-astra-update](#) [astra-update](#).



- Astra Linux



- Astra Linux - [Astra Linux Special Edition .10015-01 \(1.6\)](#)



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

```
# ( )
deb https://dl.astralinux.ru/astra/frozen/1.6_x86-64/1.6.<__>/repository smolensk main contrib non-free

#
deb https://dl.astralinux.ru/astra/frozen/1.6_x86-64/1.6.<__>/repository-update/ smolensk main contrib non-free

#
deb https://dl.astralinux.ru/astra/frozen/1.6_x86-64/1.6.<__>/repository-dev/ smolensk main contrib non-free

#
deb https://dl.astralinux.ru/astra/frozen/1.6_x86-64/1.6.<__>/repository-dev-update/ smolensk main contrib non-free
```

, Astra Linux 1.6.11 :

```
deb https://dl.astralinux.ru/astra/frozen/1.6_x86-64/1.6.11/repository smolensk main contrib non-free
deb https://dl.astralinux.ru/astra/frozen/1.6_x86-64/1.6.11/repository-update/ smolensk main contrib non-free
deb https://dl.astralinux.ru/astra/frozen/1.6_x86-64/1.6.11/repository-dev/ smolensk main contrib non-free
deb https://dl.astralinux.ru/astra/frozen/1.6_x86-64/1.6.11/repository-dev-update/ smolensk main contrib non-free
```

- :

sudo apt update



1.6.11 Astra Linux ca-certificates-local, .



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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