

20231226SE16 (14)



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



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- [20231214SE16 \(13\)](#)
- [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 ();
- 0 .



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- , [20231226SE16 \(14\)](#)



Astra Linux: **1.6.14.1**.

..: [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](#)

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- [ISO-](#)

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○ - [Astra Linux](#)

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- [Firefox](#)
- [Chromium](#)



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ry-update-dev.iso).



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



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, . :

```
df -h /boot
```

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

. boot LVM. .

1. - :
`https://dl.astralinux.ru/astra/frozen/1.6_x86-64/1.6.14/iso/repository-update-bin.iso`
:

```
wget https://dl.astralinux.ru/astra/frozen/1.6_x86-64/1.6.14/iso/  
repository-update-bin.iso
```

2. . :
 - , 34.11-2012 . :

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

:

```
a169e776de368d793c4eee9abe47fcc9775b7ec68593234ff7e3fad1d92bc85c
```

- CSP.
CSP CSP fly-csp.
:
a. " " - :
`https://dl.astralinux.ru/astra/frozen/1.6_x86-64/1.6.14/iso/repository-update-bin.iso.sig`
:

```
wget https://dl.astralinux.ru/astra/frozen/1.6_x86-64/1.6.14/  
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. - :
https://dl.astralinux.ru/astra/frozen/1.6_x86-64/1.6.14/iso/repository-update-dev.iso
:

```
wget https://dl.astralinux.ru/astra/frozen/1.6_x86-64/1.6.14/iso  
/repository-update-dev.iso
```

2. • , 34.11-2012 . :

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

```
9592c51eefe63f47273932cc51e2a349a2072499a798871c49fb9b13bb362cd1
```

- CSP.
CSP CSP fly-csp.
a. "-" - :
https://dl.astralinux.ru/astra/frozen/1.6_x86-64/1.6.14/iso/repository-update-dev.iso.sig
:

```
wget https://dl.astralinux.ru/astra/frozen/1.6_x86-64/1.6.14  
/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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