

20221220SE16 (12)

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

 :

- [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 \(1\)](#)

 Astra Linux (, « ») , Astra Linux.

 :

- 0 ();
- 0 .

 :

- , [20221220SE16 \(12\)](#)
- [20221220SE16 \(12\)](#):

 Astra Linux: **1.6.12.4**

 : Astra Linux

 , , .

 !

Linux 5.15, ksmbd.ko, Linux – . [ksmbd.ko Linux](#).

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

- -
 -
 -
 -
 - - [fly-astra-update/astra-update](#)
 - [fly-astra-update/astra-update](#)
 - -
 - ISO-
-
- [ksmbd.ko Linux](#)
- - - Astra Linux
 - - [Firefox](#)
 - [Chromium](#)

 ().

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



:

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



!

, . :

```
df -h /boot
```

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

```
. boot LVM. .
```

1. - :
https://dl.astralinux.ru/astra/frozen/1.6_x86-64/1.6.12/iso/repository-update-bin.iso
 :

```
wget https://dl.astralinux.ru/astra/frozen/1.6_x86-64/1.6.12/iso
/repository-update-bin.iso
```

2. /mnt . :
 - , 34.11-2012 . :

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

:

```
98cac7726468019cd93e999594852be752ddea86601d87a8a7ff1d6a7c7ab7e2
```

- CSP.
 , . CSP CSP fly-csp.
 :
 a. " " - :
https://dl.astralinux.ru/astra/frozen/1.6_x86-64/1.6.12/iso/repository-update-bin.iso.sig
 :

```
wget https://dl.astralinux.ru/astra/frozen/1.6_x86-64/1.6.12
/iso/repository-update-bin.iso.sig
```

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

```
/opt/cproscsp/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_x86-64/1.6.12/iso/repository-update-dev.iso
:

```
wget https://dl.astralinux.ru/astra/frozen/1.6_x86-64/1.6.12/iso  
/repository-update-dev.iso
```

2. /mnt :
 - , 34.11-2012 :

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

```
ba23f902716517f707e5882223195da552d5fcb4c6d1a73b8f02301cb59bd9df
```

- CSP.
CSP CSP fly-csp.
:
a. "-" - :
https://dl.astralinux.ru/astra/frozen/1.6_x86-64/1.6.12/iso/repository-update-dev.iso.sig
:

```
wget https://dl.astralinux.ru/astra/frozen/1.6_x86-64/1.6.12  
/iso/repository-update-dev.iso.sig
```

- b. /mnt ,
- c. /mnt , (-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.



ksmbd.ko Linux

Linux 5.15, ksmbd.ko, Linux. .

1. /etc/modprobe.d/blacklist.local.conf (-).
2. , install, shell:

```
install ksmbd /bin/true
```

3. :

```
sudo update-initramfs -uk all
```



- 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. [].
- , [] :

The Ministry of Digital Development and Communications
Russian Trusted Root CA

Chromium

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

:

org-The Ministry of Digital Development and Communications
Russian Trusted Root CA