

# 20221220SE16 ( 12)

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

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- [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.

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

 Astra Linux: **1.6.12.4**

 [Astra Linux](#)

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 !

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

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

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

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ry-update-dev.iso).



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- :
- : `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](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](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/cproccsp/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](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](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. ☐.

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