

Astra Linux Common Edition 2.12.46

 2.12.46 , «Astra Linux Common Edition», - Astra Linux CE.

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- - Astra Linux CE
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- Firefox
- Chromium
- - Astra Linux CE

-  :
- Astra Linux Common Edition 2.12.45
 - 2022-0407E212MD
 - 2022-0318E212MD
 - 2022-0222CE212MD
 - 2022-0128CE212MD

-  :
- , 2.12.46

 Astra Linux CE: **2.12.46.6**
.: Astra Linux

, . :

```
df -h /boot
```

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

. boot LVM. .

- Astra Linux CE

 , - Astra-Linux CE - , .

- Astra Linux CE :

1. - Astra-Linux CE, :
 - a. , HTTPS, apt-transport-https ca-certificates:

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

 , - Astra-Linux CE HTTP.

- b. /etc/apt/sources.list :

- HTTPS

```
deb https://dl.astralinux.ru/astra/frozen/2.12_x86-64/2.12.46/repository/ orel main contrib non-free
```

- HTTP

```
deb http://dl.astralinux.ru/astra/frozen/2.12_x86-64/2.12.46/repository/ orel main
contrib non-free
```

2. :

```
sudo apt update
```

3. :

```
sudo apt dist-upgrade
```



Warning: apt-get: command line options



Warning: apt-get: command line options



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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linux-

, linux-, linux- :

```
uname -r
```

:

```
5.15.0-70-generic
```

, Linux , :

```
dpkg -l | awk '/linux-image/ {print $1,$2}'
```

:

```
ii linux-image-4.15-generic
ii linux-image-4.15-hardened
ii linux-image-4.15.3-1-generic
ii linux-image-4.15.3-1-hardened
ii linux-image-4.15.3-141-generic
ii linux-image-4.15.3-141-hardened
ii linux-image-4.15.3-177-generic
ii linux-image-4.15.3-177-hardened
ii linux-image-5.4-generic
ii linux-image-5.4-hardened
ii linux-image-5.4.0-71-generic
ii linux-image-5.4.0-71-hardened
ii linux-image-5.4.0-110-generic
ii linux-image-5.4.0-110-hardened
ii linux-image-5.15-generic
ii linux-image-5.15.0-33-generic
ii linux-image-5.15.0-70-generic
ii linux-image-hardened
```

, :

- «RC» — , ;
- «li» — ,

, ():

```
#!/bin/bash

set -e

# .
pkgs="linux-image-4.15.3-1-generic \
linux-image-4.15.3-1-hardened \
linux-image-4.15.3-141-generic \
linux-image-4.15.3-141-hardened \
linux-image-4.15.3-177-generic \
linux-image-4.15.3-177-hardened \
linux-image-5.4.0-71-generic \
linux-image-5.4.0-71-hardened \
linux-image-5.4.0-110-generic \
linux-image-5.4.0-110-hardened \
linux-image-5.15.0-33-generic"

# .
#
# apt purge.
[ -n "$pkgs" ] && apt remove $pkgs

# Grub.
update-grub2
```

- Astra Linux CE



Astra Linux CE:

- 2.12.45
- 2.12.44
- 2.12.43
- 2.12.42
- 2.12.40
- 2.12.29
- 2.12.22
- 2.12.21
- 2.12.14
- 2.12.13

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

- HTTPS

```
deb https://dl.astralinux.ru/astra/frozen/2.12_x86-64/2.12.<_>/repository/ orel main contrib non-free
```

- HTTP

```
deb http://dl.astralinux.ru/astra/frozen/2.12_x86-64/2.12.<_>/repository/ orel main contrib non-free
```

, Astra Linux CE 2.12.29 (HTTPS) :

```
deb https://dl.astralinux.ru/astra/frozen/2.12_x86-64/2.12.29/repository/ orel main contrib non-free
```

- :

```
sudo apt update
```