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:

- Astra Linux

CSP , .. , (-). ISO- Astra Linux Special Edition. , . CSP CSP fly-csp.



" " . , , , ( ).



HTTPS apt-transport-https certificates. Astra Linux Special Edition .10015-01 1..6 , :

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

1. , " " ( , 07.12.2021). ISO- Astra Linux Special Edition .10015-01 1..6 [20220407SE16MD](#). ISO- - ::
  - ISO-:

```
wget https://dl.astralinux.ru/astra/stable/smolensk/security-
updates/1.6/20220407SE16MD/20220407SE16MD.tar.gz
```

- :

```
wget https://dl.astralinux.ru/astra/stable/smolensk/security-
updates/1.6/20220407SE16MD/20220407SE16MD.tar.gz.sig
```

2. , :

ISO- Astra Linux Special Edition .10015-01 1..6 [20211126SE16 \( 10\)](#). ISO- - :

- ISO-:

```
wget https://dl.astralinux.ru/astra/stable/smolensk/security-
updates/1.6/20211126SE16/20211126SE16.iso
```

- :

```
wget https://dl.astralinux.ru/astra/stable/smolensk/security-
updates/1.6/20211126SE16/20211126SE16.iso.sig
```

ISO- .iso .iso.sig . , . Astra Linux Special Edition.



, 07.12.2021,

, ( 01.08.2019 31.07.2020 31.07.2020 07.12.2021) , , , (CRL). ISO- Astra Linux Special Edition : , . :

1. :

```
wget https://zgt.mil.ru/upload/site228/document_file/E3ZkKxnPBc.zip
```

E3ZkKxnPBc.zip.

2. :

```
- , 31.07.2020 07.12.2021 — ca2020.cer crl_20.crl;
- , 01.08.2019 31.07.2020 — ca2019.cer crl_19.crl
:
```

```
unzip E3ZkKxnPBc.zip ca2020.cer ca2019.cer crl_20.crl crl_19.crl
```

3. CRL :

```
sudo /opt/cprocsp/bin/amd64/certmgr -inst -store mRoot -file ca2020.cer
sudo /opt/cprocsp/bin/amd64/certmgr -inst -store mca -file crl_20.crl -
crl
sudo /opt/cprocsp/bin/amd64/certmgr -inst -store mRoot -file ca2019.cer
sudo /opt/cprocsp/bin/amd64/certmgr -inst -store mca -file crl_19.crl -
crl
```

/opt/cprocsp/bin/amd64/cryptcp -verify -detached, :

1. -verall, , , :

```
/opt/cprocsp/bin/amd64/cryptcp -verify -detached 20220407SE16MD.tar.gz
20220407SE16MD.tar.gz.sig -f 20220407SE16MD.tar.gz.sig
```

CryptCP 5.0 (c) "-", 2002-2021.

```

:
:" ""-""", , , RU, 77 . , , " , 26, 11", " ""-""", , 5167746207459,
13849770106, 772879051017, okovshov@astralinux.ru, 7726388700-772601001-
013849770106, 7726388700
07.12.2021 06:54:24 07.12.2022 06:57:56
```

```

'./':
20220407SE16MD.tar.gz... ...
: " ""-""", , , RU, 77 . , , " , 26, 11", " ""-""",
5167746207459, 13849770106, 772879051017, okovshov@astralinux.ru,
7726388700-772601001-013849770106, 7726388700
```

[ErrorCode: 0x00000000]

"[ErrorCode: 0x00000000]" ( 0) , .

```
" " , , , ( ). (CP_PRINT_CHAIN_DETAIL=1):
```

```
CP_PRINT_CHAIN_DETAIL=1 /opt/cproccsp/bin/amd64/cryptcp -verify -verall -
detached 20220407SE16MD.tar.gz 20220407SE16MD.tar.gz.sig
```

2. (-f<\_>):

```
/opt/cproccsp/bin/amd64/cryptcp -verify -detached 20220407SE16MD.tar.gz
20220407SE16MD.tar.gz.sig -verall
```

```
CryptCP 5.0 (c) "- ", 2002-2021.
```

```
./':
20220407SE16MD.tar.gz... ..
: " ""-""", , RU, 77 . , , " , 26, 11", " ""-""",
5167746207459, 13849770106, 772879051017, okovshov@astralinux.ru,
7726388700-772601001-013849770106, 7726388700
```

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

```
"[ErrorCode: 0x00000000]" ( 0) , .
" " , , , ( ).
```

, 07.12.2021:

1. -verall, , :

```
/opt/cproccsp/bin/amd64/cryptcp -verify -detached 20211126SE16.iso
20211126SE16.iso.sig -verall
```

```
CryptCP 5.0 (c) "- ", 2002-2021.
```

```
./':
20211126SE16.iso... ..
: " ""-""", , RU, " , 26, 11",
5167746207459, 007726388700, 13527156247
```

```
([Y], [N], [C])?y
```

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

```
, "y" Enter.
"[ErrorCode: 0x00000000]" ( 0) , .
" " , , , ( ). (CP_PRINT_CHAIN_DETAIL=1):
```

```
CP_PRINT_CHAIN_DETAIL=1 /opt/cproccsp/bin/amd64/cryptcp -verify -verall -
detached 20211126SE16.iso 20211126SE16.iso.sig
```

2. (-f<\_>):

```
/opt/cproccsp/bin/amd64/cryptcp -verify -detached 20211126SE16.iso
20211126SE16.iso.sig -f 20211126SE16.iso.sig
```

```
CryptCP 5.0 (c) "- ", 2002-2021.
```

```

      :
:"      ""-""", , , "      ""-""", , , 77 . , RU, " , 26, 11",
5167746207459, 007726388700, 13527156247
      11.02.2021 07:33:28 30.12.2021 22:00:00

```

```

1:./:
202111126SE16.iso...  ...  ""-""", , , , 77 . , RU, " , 26, 11",
5167746207459, 007726388700, 13527156247

```

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

" " , , , ( ).