

Red Book: Astra Linux Common Edition 2.12

- [Astra Linux Common Edition 2.12](#)
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Astra Linux Common Edition 2.12

1. - - 0
2. "" BIOS .

 P.S.

"" :

- 8 ;
- () ;
- , .

3. "" "" ".
 , , , , "" - .
4. (, , .).
(WiFi, Bluetooth).
WiFi - VPN.
5. Intel Execute Disable Bit (XD-Bit) AMD No Execute Bit (NX-Bit) .
6. " " ILO, RSA, iDRAC, ThinkServer EasyManage, AMT, iMana - , , , IP KVM.
7. (, BIOS .). BIOS , , ,
8. (),
,

1.

	/
/	(, /boot). ext4.
/boot	. ext2, ext3, ext4.
/home	. ext4. noexec,nodev,nosuid.
/tmp	. ext4. noexec,nodev,nosuid.
/var/tmp	. ext4. noexec,nodev,nosuid.
swap	. .



, /tmp 250 .

2. /home /tmp /var/tmp noexec,nodev,nosuid

3. " " :
a. hardened. hardened lkrng generic(. astra-safepolicy);
b. ;
c. ;
d. ufw;
e. ulimits;
f. ptrace;
g. ;
h. sudo ;

1. , ;

2. "" Grub. , Intel, ;

3. HARDENED, , ;

4. , Intel Management Engine (MEI). ;

5. Astra Linux:



Astra Linux Common Edition : <https://download.astralinux.ru/astra/current/orel/repository/>

, , :



sudo apt update && sudo apt upgrade

6. astra-safepolicy:

```
sudo apt install astra-safepolicy
```

7. /boot , ro (rw);

8. secureboot (usb-flash astra-secureboot,,, BIOS) ;

9. , . astra-safepolicy, :

```
sudo astra-console-lock enable
```

fly-admin-smc.

astra-console;

10. , . astra-safepolicy, :

```
sudo astra-interpreters-lock enable
```

fly-admin-smc;

11. , astra-macros-lock:

```
astra-macros-lock enable
```

12. fly-admin-smc;
ptrace, :

astra-pttrace-lock enable

```
fly-admin-smc;
```

13. , , ;
14. , ;
15. , VPN ();
16. , GPG- Thunderbird Enigmail ();
17. "" .



P.S.

"" -

- 8;
- ();
- , .

18. , pam_tally ();
19. fly-admin-smc;
20. (ulimits), :

sudo astra-ulimits-control enable

```
fly-admin-smc;
```

21. (..) :

systemdgenie

22. ufw, .
iptables , : ,

- iptables
- ufw
- gufw

23. fly-admin-smc .conf /etc/sysctl.d:



```
fs.suid_dumpable=0  
kernel.randomize_va_space=2  
kernel.sysrq=0  
net.ipv4.ip_forward=0  
net.ipv4.conf.all.send_redirects=0  
net.ipv4.conf.default.send_redirects=0
```

```
...  
:
```

sudo sysctl -a | more

24. python :

```
find /usr/lib/python* -type f -name "_ctype*" -exec sudo dpkg-  
statoverride --update --add root root 640 {} \;
```

25. , ,
:

26. , , :

```
sudo astra-mount-lock
```

```
fly-admin-smc;
```

27. , , .

28. [fail2ban](#).

29. sudo:

```
sudo astra-sudo-control enable
```

 , , , /etc/sudoers

 Defaults timestamp_timeout=0

 /etc/sudoers :

```
sudo visudo
```

- sudo /etc/pam.d/sudo:

```
account required pam_tally.so
```

/etc/pam.d/sudo:

 @include common-auth
@include common-account
@include common-session
account required [pam_tally.so](#)

. [sudo](#)