

IPv6:

- IPv6
- IPv6
 - IPv6 GRUB2
 - IPv6 IPv6
 - IPv6
- sysctl
- IPv6
- IPv6 FreeIPA

, , Astra Linux.

, (NetworkManager) networking, - NetworkManager, networking.

, , NetworkManager , ("loopback", lo).



:

- Astra Linux Special Edition .10015-01 .10015-10 (1.7)
- Astra Linux Special Edition .10015-37 (7.7)
- Astra Linux Special Edition .10015-01 (1.6)
- Astra Linux Special Edition .10015-16 . 1
- Astra Linux Special Edition .10015-16 . 2 ()
- Astra Linux Special Edition .10265-01 (8.1) ()
- Astra Linux Common Edition 2.12



Astra Linux Special Edition .10015-16 . 2 Astra Linux Special Edition .10265-01 (8.1) . [/boot/boot.conf](#)

IPv6

IPv6 :

```
ip a | grep inet6
```



Astra Linux IPv6 networking.
/etc/sysctl.conf /etc/sysctl.d/ (, /etc/sysctl.d/999-astra.conf). IPv6 net.ipv6.conf.all.disable_ipv6 = 1:

```
cat /etc/sysctl.d/999-astra.conf
```

```
# Astra sysctl config
```

```
kernel.sysrq = 0
fs.suid_dumpable = 0
kernel.randomize_va_space = 2
net.ipv6.conf.all.disable_ipv6 = 1
```

, IPv6 . , NetworkManager , networking.

IPv6

IPv6 GRUB2



IPv6, IPv6 NetworkManager networking. IPv6 , IPv6 (Samba, FreeIPA Astra Linux). IPv6 (.).



Astra Linux Special Edition .10015-16 . 2 Astra Linux Special Edition .10265-01 (8.1) GRUB2 , IPv6 /boot/boot.conf (cmdline="ipv6.disable=1").

. [/boot/boot.conf](#).

IPv6 /etc/default/grub GRUB_CMDLINE_LINUX, "ipv6.disable=1",



GRUB_CMDLINE_LINUX_DEFAULT="quiet net.ifnames=0 ipv6.disable=1"


/etc/default/grub :

```
sudo update-grub
```

IPv6 networking (/etc/sysctl.conf /etc/sysctl.d/*.conf) NetworkManager (/etc/NetworkManager/system-connections/*) , , , IPv6 (, net.ipv6.conf.eth0.disable_ipv6 = 1 /etc/sysctl.conf /etc/sysctl.d/*.conf). , IPv6 .

IPv6 IPv6

IPv6 GRUB_CMDLINE_LINUX /etc/default/grub, "ipv6.disable" 1 0:

 GRUB_CMDLINE_LINUX_DEFAULT="quiet net.ifnames=0 ipv6.disable=0"

/etc/default/grub :

```
sudo update-grub
```

. [sysctl](#).

IPv6

IPv6 Astra Linux (. /etc/sysctl.d/999-astra.conf), IPv6 NetworkManager IPv6. :

1. /etc/network/interfaces. networking, NetworkManager , /etc/network/interfaces, :

```
sudo systemctl mask --now NetworkManager
```

2. NetworkManager "" IPv6:
 - a. "IPv6" ""
 - b. ignore:

```
nmcli con down " 1"
nmcli con mod " 1" ipv6.method ignore
nmcli con up " 1"
```

sysctl

1. , IPv6 :

- a. grub2:

- i. /etc/default/grub GRUB_CMDLINE_LINUX , "ipv6.disable=1", - 0
- ii. , :

```
sudo update-grub
```

- b. , grub2 . [/boot/boot.conf](#)).

2. IPv6 /etc/sysctl.d/999-astra.conf :

 net.ipv6.conf.all.disable_ipv6 = 1

0:

 net.ipv6.conf.all.disable_ipv6 = 0

 /etc/sysctl.conf /etc/sysctl.d/*.conf , . , /etc/sysctl.conf , /etc/sysctl.d/*.conf

/ , , eth0 , lo :

 net.ipv6.conf.eth0.disable_ipv6 = 1
net.ipv6.conf.lo.disable_ipv6 = 0


3. :

```
sudo sysctl --system
```

```
sudo sysctl -p
```


-p , /etc/sysctl.conf, /etc/sysctl.d/*.conf .

IPv6

 Astra Linux Special Edition .10015-16 . 2 Astra Linux Special Edition .10265-01 (8.1) IPv6 /boot/boot.conf. IPv6 /boot/boot.conf
cmdline="ipv6.disable=1" cmdline="ipv6.disable=0". . [/boot/boot.conf](#).

IPv6 :

1. , IPv6 (/etc/default/grub /boot/boot.conf). :
 - a. /etc/default/grub GRUB_CMDLINE_LINUX , "ipv6.disable=1", - 0;
 - b. /boot/boot.conf . [/boot/boot.conf](#)
2. , IPv6 /etc/sysctl.conf, /etc/sysctl.d/* (, /etc/sysctl.d/999-astra.conf).

 net.ipv6.conf.all.disable_ipv6 = 1
net.ipv6.conf.default.disable_ipv6 = 1
net.ipv6.conf.lo.disable_ipv6 = 1

3. /etc/default/grub, :

```
sudo update-grub
```

IPv6 FreeIPA

 () FreeIPA (loopback, lo) IPv6.

1. IPv6 :
 - a. , grub2 IPv6 , .;
 - b. , /boot/boot.conf . [/boot/boot.conf](#);
2. IPv6 , lo. net.ipv6.conf.lo.disable_ipv6 = 0 /etc/sysctl.d/999-astra.conf. :



Astra sysctl config

```
kernel.sysrq = 0
fs.suid_dumpable = 0
kernel.randomize_va_space = 2
net.ipv6.conf.all.disable_ipv6 = 1
net.ipv6.conf.lo.disable_ipv6 = 0
```

3. :

```
sudo sysctl --system
```

- IPv6 (, NetworkManager), , FreeIPA.