

# IPv6:

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

, , Astra Linux.

, ( NetworkManager) networking, - NetworkManager, networking.

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



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- 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. IP- IPv6. , NetworkManager , networking.

```
net.ipv6.conf.all.disable_ipv6 = 1
```

( ) /etc/sysctl.d/999-astra.conf.

/etc/sysctl.conf /etc/sysctl.d/ :

```
grep net.ipv6.conf.all.disable /etc/sysctl.* -r
```

:

```
grep net.ipv6.conf.all.disable /etc/sysctl.* -r
```

```
/etc/sysctl.d/999-astra.conf:net.ipv6.conf.all.disable_ipv6 = 1
```

## 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.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
```

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- IPv6 (, NetworkManager), , FreeIPA.