

-
- **WoL**
 -
 - **BIOS**
 - **ethtool**
 - **NetworkManager**
 - **nm-connection-editor**
 - (CLI)
 - **networking**
- " "
- " "
- **WoL**
 - **BIOS**
 - **WiFi (WoWLAN)**
-



:

- Astra Linux Special Edition .10015-01 (1.7), .10015-10
- Astra Linux Special Edition .10015-17
- Astra Linux Special Edition .10015-37 (7.7)
- Astra Linux Special Edition .10015-03 (7.6)
- Astra Linux Special Edition .10152-02 (4.7)
- 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

" " (Wake on Lan, WoL), , . :

- BIOS ;
- ;



WoL . Wake on Wireless LAN (WoWLAN) WiFi. , , , .
 , .

MAC- , . , . , .

WoL

, . :

1. **ethtool:**

```
sudo apt install ethtool
```

2. **MAC- :**

```
ip a
```

eth0.



MAC- , .

3. **ethtool:**

```
sudo ethtool eth0 | grep Wake
```

```
Supports Wake-on: pumbg
Wake-on: d
```

(Supports Wake-on) Wake-on-Line, (Wake-on) - . :
 d- ;

```

p - ;
u - unicast . , (ARP) ;
m - (multicast);
b - ARP ;
g - " ":

```



(magic packet) — , , (UDP IPX). : 6, 0xFF. — MAC- , 16 .
IP- 9.

- . - . - " ".

BIOS

, , BIOS " ". BIOS , . :

- Wakeup option;
- Wake On LAN;
- MAC Resume;
- MAC/PME Power Up Control;
- Power On By Onboard LAN;
- Power Up By Onboard LAN;
- Power On By PCI Devices
- Resume on PCI Event;
- Resume by LAN;
- Resume By WOL;
- Resume on LAN;
- Resume on LAN/PME#;
- Wake Up On LAN;
- WakeUp by Onboard LAN;
- WOL (PME#) From Soft-Off;
- PME Events Wake Up
- Resume by PME# Function;
- Resume On PME#;
- Wake On PME
- Wake Up On PME;
- Power on by Ethernet Card;
- Power On By PCIE Devices (PCI-E);
- LAN/Ring Power On;
- Modem Ring On/Wake On Lan;
- Power On By Modem/Lan.

, - .

ethtool

ethtool. . eth0 :

```
sudo ethtool -s eth0 wol g
```

g- " ".

NetworkManager



NetworkManager , default. , " ", - . NetworkManager .

nm-connection-editor

Astra Linux nm-connection-editor. (), (" " - " " - " ") :

```
sudo nm-connection-editor
```

:

1. .
2. " " ().
3. "Ethernet" " " :
 - a. " ".
 - b. (Magic).
 - c. .
4. "".

(CLI)

NetworkManager " " :

```
sudo nmcli con mod " 1" 802-3-ethernet.wake-on-lan magic
```

" 1" - , .

networking

networking , :

```
ethernet-wol g
```

. (down) (up) . , :

```
sudo ifdown eth0; sudo ifup eth0
```

WOL

tlp (. [Astra Linux](#)), WOL. /etc/default/tlp WOL_DISABLE :

```
WOL_DISABLE=N
```

" "



" " . . .

" " Astra Linux wakeonlan. , . wakeonlan:

- Astra Linux Special Edition .10015-01 (1.7) (. [Astra Linux Special Edition x.7:](#) ,);
- Astra Linux Common Edition 2.12.43.

[synaptic](#) :

```
sudo apt install wakeonlan
```

. " " MAC- 01:02:03:04:05:06:

```
wakeonlan 01:02:03:04:05:06
```

MAC- :

```
wakeonlan -f workstation1.mac
```

workstation1.mac , MAC-:

```
01:02:03:04:05:06
```

, " " , . man wakeonlan.

" "

, :

```
sudo tcpdump -v -i eth0 ether proto 0x0842 or udp port 9
```

"", .., "" .

WoL

WoL BIOS . :

1. NetworkManager:

a. "magic" (). 802-3-ethernet.wake-on-lan:

```
sudo nmcli con mod " 1" 802-3-ethernet.wake-on-lan ""
```

b. :

```
sudo systemctl restart network-manager
```

- ;

2. networking- :

```
ethernet-wol d
```

(). , :

```
sudo ifdown eth0; sudo ifup eth0
```

BIOS

BIOS (BIOS):

- " ", ();
- " ", ;

WiFi (WoWLAN)

:

```
sudo apt install iw
```

:

```
sudo iw dev
```

phy#0

```
Interface wlx00507f375dc7
    ifindex 3
    wdev 0x1
    addr **:*:*:*:*:*:*
    ssid *****
    type managed
```

```
channel 2 (2417 MHz), width: 40 MHz, center1: 2427 MHz  
txpower 20.00 dBm
```

, WoWLAN:

```
sudo iw phy0 wowlan show
```

```
command failed: Operation not supported (-95)
```

. <https://www.cyberciti.biz/faq/configure-wireless-wake-on-lan-for-linux-wifi-wowlan-card/>