-
- 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/