

# Enable Wake-on-LAN persistent

This guide was tested on Ubuntu 22 and Debian 11/12.

## Check current setting and enable manually

Firstly find out the interface on which WoL should be enabled. Therefore use `ifconfig` that is shipped with the `net-tools`-package on Debian/Ubuntu:

### `ifconfig`

Your output may look like this:

```
enp1s0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
  inet 192.168.0.2 netmask 255.255.255.0 broadcast 192.168.0.255
  inet6 fe80::ed26:e33:5d38:2468 prefixlen 64 scopeid 0x20<link>
  ether xx:xx:xx:xx:xx:xx txqueuelen 1000 (Ethernet)
  RX packets 138808 bytes 178312866 (178.3 MB)
  RX errors 0 dropped 3324 overruns 0 frame 0
  TX packets 70435 bytes 59140948 (59.1 MB)
  TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
  [...]

wlp2s0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
  ether xx:xx:xx:xx:xx:xx txqueuelen 1000 (Ethernet)
  RX packets 0 bytes 0 (0.0 B)
  RX errors 0 dropped 0 overruns 0 frame 0
  TX packets 0 bytes 0 (0.0 B)
  TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

Then check the current Wake-on-LAN-state with `ethtool`. (Package to install has the same name):

```
sudo apt install ethtool
```

```
ethtool <interface>
```

Replace `<interface>` for example with `enp1s0`, if this is the ID of your interface.

The output may now look like this:

[Show/Hide](#)

```
Settings for enp1s0:
```

```
Supported ports: [ TP      MII ]
Supported link modes:  10baseT/Half 10baseT/Full
                      100baseT/Half 100baseT/Full
                      1000baseT/Full
Supported pause frame use: Symmetric Receive-only
Supports auto-negotiation: Yes
Supported FEC modes: Not reported
Advertised link modes: 10baseT/Half 10baseT/Full
                      100baseT/Half 100baseT/Full
                      1000baseT/Full
Advertised pause frame use: Symmetric Receive-only
Advertised auto-negotiation: Yes
Advertised FEC modes: Not reported
Link partner advertised link modes: 10baseT/Half 10baseT/Full
                                    100baseT/Half 100baseT/Full
                                    1000baseT/Full
Link partner advertised pause frame use: No
Link partner advertised auto-negotiation: Yes
Link partner advertised FEC modes: Not reported
Speed: 1000Mb/s
Duplex: Full
Auto-negotiation: on
master-slave cfg: preferred slave
master-slave status: slave
Port: Twisted Pair
PHYAD: 0
Transceiver: external
MDI-X: Unknown
Supports Wake-on: pumbg
Wake-on: d
Link detected: yes
```

Important are the following lines:

```
[...]
Supports Wake-on: pumbg
Wake-on: d
[...]
```

If the line Supports Wake-on: contains **g**, then Wake-on-LAN ist supported.

If the line Wake-on: already says Wake-on: **g**, then WoL is already enabled, if not, you can enable it with:

```
sudo ethtool -s <interface> wol g
```

## Enable automatically at boot

If not enabled in BIOS WoL has to be enabled before shutting down. This can be done by a system service (systemd-based distro required):

Firstly create the service file:

```
sudo nano /etc/systemd/system/wol-enable.service
```

And add this content:

```
[Unit]
Description=Configure Wake-up on LAN
After=network-online.target

[Service]
Type=oneshot
ExecStart=/sbin/ethtool -s <interface> wol g

[Install]
WantedBy=basic.target
```

Remind to change the <interface>.

Then save the file and enable the service with:

```
sudo systemctl enable wol-enable.service
```

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