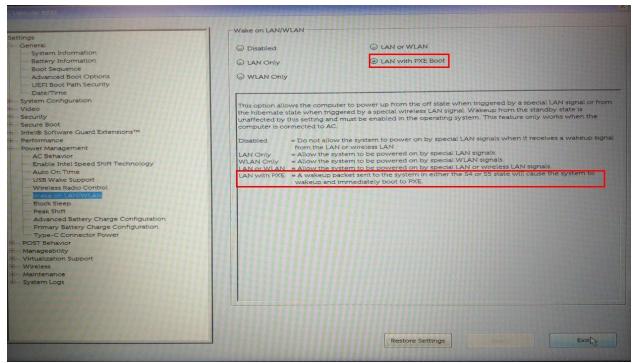
How to enable Wake-on-LAN feature in Ubuntu 18.04 OEM image

Prerequisite:

Make sure BIOS setting enabled Wake-on-LAN in S4 or S5 state



- AC plug-in
- Ethernet cable plug-in
- Check MAC address and log it

Enable Wake-on-LAN in Ubuntu 18.04 OEM image:

Recovery system and do the test from scratch and wol works well via the procedure below:

1) Enable WOL in TLP

Change following configuration in /etc/default/tlp:

Disable_WOL=N

2) Search for the name of the wired connection:

nmcli c show

It should be named as Wired *, ex: "Wired connection 1"

```
tiff@tiff-Latitude-5290:~$ nmcli c show

NAME UUID TYPE DEVICE

Canonical-2.4GHz-a 2e7d62b2-d9e2-47a7-92c0-82e4cf8b44bb wifi wlp2s0

Wired connection 1 25bbb4ba-0fb4-36de-bd60-15dd4911a325 ethernet enp0s31f6
```

3) Modify Wake-on-LAN mode to "magic" mode for the wired connection you want to use:

nmcli c modify "Wired connection 1" 802-3-ethernet.wake-on-lan magic

- 4) Reset network device:
- systemctl restart networking
- 5) Check whether it is changed to WoL magic packet mode:
- 5.1) Using nmcli command:

nmcli c show "Wired connection 1" | grep -i wake

```
tiff@tiff-Latitude-5290:/etc/default$ nmcli c show "Wired connection 1" | grep -i wake
802-3-ethernet.wake-on-lan: magic
802-3-ethernet.wake-on-lan-password: --
tiff@tiff-Latitude-5290:/etc/default$
```

5.2) Also can use ethtool to double confirm:

Use ip command:

ip address

to identify ethernet wired device name. It should be "en*", ex: enp0s31f6

After confirming the wired device name, use ethtool to check Wake-on-LAN mode:

sudo ethtool [NIC_device]

ex: sudo ethtool enp0s31f6

wake-on field should be "g"

wake-on: g

```
tiff@tiff-Latitude-5290:~$ sudo ethtool enp0s31f6
[sudo] password for tiff:
Settings for enp0s31f6:
       Supported ports: [ TP ]
       Supported link modes:
                                10baseT/Half 10baseT/Full
                                100baseT/Half 100baseT/Full
                                1000baseT/Full
       Supported pause frame use: No
       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: No
       Advertised auto-negotiation: Yes
       Advertised FEC modes: Not reported
       Speed: 1000Mb/s
       Duplex: Full
       Port: Twisted Pair
       PHYAD: 1
       Transceiver: internal
       Auto-negotiation: on
       MDI-X: off (auto)
       Supports Wake-on: pumbg
       Wake-on: g
       Current message level: 0x00000007 (7)
                               drv probe link
       Link detected: yes
```

5) Power off the system:

systemctl poweroff

6) Use another system to wake up: wakeonlan [MAC_address]