How to Enable Wake-on-LAN (WoL) on Ubuntu 24.04

Wake-on-LAN lets you power on your PC remotely.

0. Prerequisites in the Informatics Forum

- Your machine must be connected to a physical Ethernet port. (Wi-Fi will **not** work for WoL.)
- You need a static IP address and a hostname.
 - If you don't have these, Computing Support in the Informatics Forum can help set them up.

1. Enable Wake-on-LAN in BIOS/UEFI

 Enter your PC's BIOS or UEFI settings and look for an option related to Wake-on-LAN or powering on devices via PCI-E.

- For example, on the ASUS B760-I motherboard, enable "Power On By PCI-E".
- Note: Not all BIOS/UEFI firmware supports WoL. If in doubt, check your motherboard manual.

2. Identify Your Ethernet Interface Name

- On the target machine, open a terminal and run: bash ip a
- Determine the name of your wired (Ethernet) interface. It will look like enp5s0, eth0, etc.
 - (Replace enp5s0 in the steps below with your actual interface name if different.)

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3. Check Your NIC's Wake-on-LAN Support

- Run: bash sudo ethtool enp5s0
- Look for these lines: Supports Wake-on: pumbg Wake-on: d
 - The presence of g in Supports Wake-on: confirms your hardware can use Wake-on-LAN.

• Wake-on: d means WoL is currently disabled (the default).

4. Enable WoL Automatically at Boot

- Create a systemd service file to enable WoL every time the system boots: bash sudo nano /etc/systemd/system/wol.service
- Paste the following, replacing enp5s0 with your interface name if needed: ``` [Unit] Description=Enable Wake On Lan After=network-online.target Wants=networkonline.target

[Service] Type=oneshot ExecStart=/sbin/ethtool --change enp5s0 wol g

[Install] WantedBy=multi-user.target ```

- · Save and exit.
- Reload systemd's configuration and enable the service: bash sudo systemctl daemon-reload sudo systemctl enable wol

5. Reboot and Verify WoL Is Enabled

- Restart your computer.
- After logging back in, run: bash sudo ethtool enp5s0
- Confirm that you now see: Wake-on: g
 - This means WoL is now enabled.

6. Remotely Wake Your Machine

- Power off your machine.
- Go to <u>https://wake.inf.ed.ac.uk/cgi-bin/wakeup.cgi</u> and follow the instructions to wake up your machine remotely.