

Package WOL

Starting Clients With “Wake On Lan”

Version 3.10.3

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Contents

1. Documentation For Package WOL	3
1.1. WOL - Wake On LAN	3
1.1.1. Configuration	3
1.1.2. Wake On Lan At Router Boot	4
1.1.3. Usage	4
A. Appendix For Package WOL	5
A.1. What Is A MAC Address	5
A.1.1. How To Find The MAC Address Of A Network Card?	5
A.2. Credits	5
List of Figures	6
List of Tables	7
Index	8

1. Documentation For Package WOL

1.1. WOL - Wake On LAN

OPT_WOL enables fli4l to start remote computers with a Wake on LAN enabled network card by executing 'wol.sh' on the console or via the router's web interface.

For this to work, the network card usually has a small three-wire cable connected to the motherboard, so the network card stays powered from the ATX power supply even when the computer is currently in standby mode.

1.1.1. Configuration

OPT_WOL Default Setting: OPT_WOL='no'

'no' deactivates OPT_WOL Paket completely. No changes will be made to the fli4l boot medium resp. the archive opt.img.

'yes' activates the package OPT_WOL.

To power on a client via WOL its MAC address has to be entered in <config-dir>/dns_dhcp.txt (HOST_x_MAC). All computers without MAC address defined are excluded from WOL automatically.

WOL_LIST Configuration is made by black or whitelisting. blacklisting means that all clients on this list are excluded from WOL, whitelisting means that WOL is possible for clients on the list.

Default Setting: WOL_LIST='black'

Valid values:

- black - means that all clients on this list can not be powered on (woken)
- white - means that all clients on this list can be powered on (woken)

WOL_LIST_N Default Setting: WOL_LIST_N='0'

As the default no client is on the Blacklist, thus each client can be powered via WOL.

WOL_LIST_x Default Setting: WOL_LIST_x=""

Valid values:

- IP_NET_1 - All clients reachable over IP_NET_x (here IP_NET_1)
- @client1 - Name of a client (HOST_x_NAME) here 'client1'
- IP-Address - IP of a client (HOST_x_IP4 or HOST_x_IP6)

Example:

1. Documentation For Package WOL

```
WOL_LIST='black'           # black or white listing
WOL_LIST_N='3'             # Number of list entries
WOL_LIST_1='IP_NET_1'      # All clients in Network IP_NET_1
WOL_LIST_2='@client1'      # Client with the name HOST_1_x
WOL_LIST_3='192.168.6.3'   # Client with this IP
```

1.1.2. Wake On Lan At Router Boot

WOL_BOOT This setting should only be set to 'yes' if you want to boot a computer in your network with Wake on LAN when starting the router. This configuration is independent of WOL_LIST, clients not listed in WOL_LIST may be specified too.

WOL_BOOT_N Default Setting: WOL_BOOT_N='0'

As the default no clients are on the list, thus no clients will be powered via WOL when booting the router.

WOL_BOOT_x Default Setting: WOL_BOOT_x=""

Valid values:

- IP_NET_1 - All clients reachable over IP_NET_x (here IP_NET_1)
- @client1 - Name of a client (HOST_x_NAME) here 'client1'
- IP-Address - IP of a client (HOST_x_IP4 or HOST_x_IP6)

Example:

```
WOL_BOOT='yes'             # install WOL on Boot: yes or no
WOL_BOOT_N='2'             # Number of computers
WOL_BOOT_1='@client1'      # first client
WOL_BOOT_2='192.162.6.17'  # second client
```

1.1.3. Usage

Log in to the console directly or via SSH and wake a computer like this: 'wol.sh <computerername>' or 'wol.sh <IP-Address>' or 'wol.sh <MAC-Address>'.

Computers not contained in <config-dir>/wol.txt may be woken by 'etherwake <MAC-Address>'.

Using The Router's Web Interface

WOL_HTML To use the router's web interface WOL_HTML='yes' has to be set. The Webserver from OPT__HTTPD obviously has to be enabled as well.

Default Setting: WOL_HTML='no'

A. Appendix For Package WOL

A.1. What Is A MAC Address

The MAC address (<http://en.wikipedia.org/wiki/MAC-Address>) is a 'worldwide' unique ID of a network card.

A.1.1. How To Find The MAC Address Of A Network Card?

- Windows 9x: execute “winipcfg” in a MS-DOS Command Shell
- Windows XP/7: execute “ipconfig /all” in a MS-DOS Command Shell
- Linux: execute “ifconfig” or “ip addr show” on a console

A.2. Credits

- G.Kainzbauer for the original package

List of Figures

List of Tables

Index

OPT_WOL, [3](#)

WOL_BOOT, [4](#)

WOL_BOOT_N, [4](#)

WOL_BOOT_x, [4](#)

WOL_HTML, [4](#)

WOL_LIST, [3](#)

WOL_LIST_N, [3](#)

WOL_LIST_x, [3](#)