

# Sécurité kernel

Options kernels à utiliser pour restreindre des comportements de routage, ICMP... inutiles à proposer.

Pour de nombreux paramètres réseaux, configurer le fichier suivant qui liste les paramètres kernel à exécuter au démarrage.

```
vi /etc/sysctl.d/custom.conf
```

```
net.ipv4.conf.default.rp_filter = 1
net.ipv4.conf.all.rp_filter = 1
net.ipv4.tcp_syncookies = 1
net.ipv4.ip_forward = 1 #Inclus la ligne suivante :
net.ipv4.conf.docker0.forwarding = 1
net.ipv6.conf.all.forwarding=0
net.ipv4.conf.all.accept_redirects = 0
net.ipv6.conf.all.accept_redirects = 0
net.ipv4.conf.all.secure_redirects = 0
net.ipv4.conf.all.send_redirects = 0
net.ipv4.conf.all.accept_source_route = 0
net.ipv6.conf.all.accept_source_route = 0
net.ipv4.conf.all.log_martians = 1
net.ipv4.conf.all.proxy_arp = 0

#####
# Custom
vm.swappiness=2
```

Pour charger la configuration modifiée sans redémarrer.

```
sysctl -p
```

sysctl.conf complet.

```
#
# /etc/sysctl.conf - Configuration file for setting system variables
# See /etc/sysctl.d/ for additional system variables.
# See sysctl.conf (5) for information.
#

#kernel.domainname = example.com

# Uncomment the following to stop low-level messages on console
#kernel.printk = 3 4 1 3

#####3
# Functions previously found in netbase
#
```

```
# Uncomment the next two lines to enable Spoof protection (reverse-path
filter)
# Turn on Source Address Verification in all interfaces to
# prevent some spoofing attacks
net.ipv4.conf.default.rp_filter=1
net.ipv4.conf.all.rp_filter=1

# Uncomment the next line to enable TCP/IP SYN cookies
# See http://lwn.net/Articles/277146/
# Note: This may impact IPv6 TCP sessions too
net.ipv4.tcp_syncookies=1

# Uncomment the next line to enable packet forwarding for IPv4
net.ipv4.ip_forward=0

# Uncomment the next line to enable packet forwarding for IPv6
# Enabling this option disables Stateless Address Autoconfiguration
# based on Router Advertisements for this host
net.ipv6.conf.all.forwarding=0

#####
# Additional settings - these settings can improve the network
# security of the host and prevent against some network attacks
# including spoofing attacks and man in the middle attacks through
# redirection. Some network environments, however, require that these
# settings are disabled so review and enable them as needed.
#
# Do not accept ICMP redirects (prevent MITM attacks)
net.ipv4.conf.all.accept_redirects = 0
net.ipv6.conf.all.accept_redirects = 0
# _or_
# Accept ICMP redirects only for gateways listed in our default
# gateway list (enabled by default)
net.ipv4.conf.all.secure_redirects = 0

# gateway list (enabled by default)
net.ipv4.conf.all.secure_redirects = 0
#
# Do not send ICMP redirects (we are not a router)
net.ipv4.conf.all.send_redirects = 0
#
# Do not accept IP source route packets (we are not a router)
net.ipv4.conf.all.accept_source_route = 0
net.ipv6.conf.all.accept_source_route = 0
#
# Log Martian Packets
net.ipv4.conf.all.log_martians = 1
#
# Proxy ARP
net.ipv4.conf.all.proxy_arp = 0
```

```
#####
# Magic system request Key
# 0=disable, 1=enable all
# Debian kernels have this set to 0 (disable the key)
# See https://www.kernel.org/doc/Documentation/sysrq.txt
# for what other values do
#kernel.sysrq=1

#####
# Protected links
#
# Protects against creating or following links under certain conditions
# Debian kernels have both set to 1 (restricted)
# See https://www.kernel.org/doc/Documentation/sysctl/fs.txt
#fs.protected_hardlinks=0
#fs.protected_symlinks=0

# Disable IPv6 autoconf
net.ipv6.conf.all.autoconf = 0
net.ipv6.conf.default.autoconf = 0
net.ipv6.conf.eth0.autoconf = 0
net.ipv6.conf.all.accept_ra_defrtr = 0
net.ipv6.conf.default.accept_ra_defrtr = 0
net.ipv6.conf.eth0.accept_ra_defrtr = 0
net.ipv6.conf.all.accept_ra_pinfo = 0
net.ipv6.conf.default.accept_ra_pinfo = 0
net.ipv6.conf.eth0.accept_ra_pinfo = 0
net.ipv6.conf.all.accept_ra = 0
net.ipv6.conf.default.accept_ra = 0
net.ipv6.conf.eth0.accept_ra = 0
```

Différence de conf entre une installation originale Debian 9 et les modifications appliquées (Original à gauche, modifié à droite).

|                                        |  |
|----------------------------------------|--|
| net.ipv4.conf.all.forwarding = 1       |  |
| net.ipv4.conf.all.forwarding = 0       |  |
| net.ipv4.conf.all.log_martians = 0     |  |
| net.ipv4.conf.all.log_martians = 1     |  |
| net.ipv4.conf.all.rp_filter = 0        |  |
| net.ipv4.conf.all.rp_filter = 1        |  |
| net.ipv4.conf.all.secure_redirects = 1 |  |
| net.ipv4.conf.all.secure_redirects = 0 |  |
| net.ipv4.conf.all.send_redirects = 1   |  |
| net.ipv4.conf.all.send_redirects = 0   |  |
| net.ipv4.conf.default.forwarding = 1   |  |
| net.ipv4.conf.default.forwarding = 0   |  |
| net.ipv4.conf.default.rp_filter = 0    |  |
| net.ipv4.conf.default.rp_filter = 1    |  |
| net.ipv4.conf.docker0.forwarding = 1   |  |
| net.ipv4.conf.docker0.forwarding = 0   |  |
| net.ipv4.conf.eth0.forwarding = 1      |  |

```
net.ipv4.conf.eth0.forwarding = 0
net.ipv4.conf.lo.forwarding = 1
net.ipv4.conf.lo.forwarding = 0
net.ipv4.ip_forward = 1
net.ipv6.conf.all.accept_redirects = 1
net.ipv6.conf.all.accept_redirects = 0
```

|  |                         |
|--|-------------------------|
|  | net.ipv4.ip_forward = 0 |
|  |                         |

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