

RHEL: Displaying/setting kernel parameters - 'sysctl'

Article Number: 125 | Rating: Unrated | Last Updated: Sat, Jun 2, 2018 8:42 AM

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# Tested on RHEL 6 & 7

# Setting kernel parameters is a fairly straightforward task. If we
# check the file
# /etc/sysctl.conf, we will see several attributes with their
# appropriate values, these are
# the values applied at startup. This file can be edited directly
# with a text editor, then
# the values reloaded by executing 'sysctl -p'.

# On RHEL 7, default settings are in
# /usr/lib/sysctl.d/00-system.conf. These default
# settings may be overridden by entering new settings in
# /etc/sysctl.conf or in an
# /etc/sysctl.d/<name>.conf file.

# These values can also be changed at runtime by modifying the values
# under /proc/sys.
# For instance, attribute named net.ipv4.ip_forward can be viewed or
# modified as
# /proc/sys/net/ipv4/ip_forward.

# To view the running value, run:
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```
cat /proc/sys/net/ipv4/ip_forward
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```
# To change the running value, run:
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```
echo 1 > /proc/sys/net/ipv4/ip_forward
```

```
# The kernel attributes and values available to change can be found  
by either browsing the
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# /proc/sys folders, or by running 'sysctl -a':
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/sbin/sysctl -a | grep net.ipv4.ip_forward
```

```
# Lastly, values can be hot modified by running 'sysctl -w' command:
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```
/sbin/sysctl -w net.ipv4.ip_forward=0
```

```
# To fix this change, insert a new line with the parameter in file  
/etc/sysctl.conf.
```

```
# Load in settings from the file specified or /etc/sysctl.conf if  
none given:
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```
/sbin/sysctl -p [/etc/sysctl.conf]
```

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