





# 10Gbps NIC

- Red Hat Enterprise Linux
- 10 GbE (10GbE)

- 10 GbE ?
- MTU가 9000 10Gbit NIC iperf 6-7 Gb/s
- 10Gbps ?

10 GbE

iperf

Ceph OSD

irqbalance

NIC

가

- [System dropping packets due to rx\\_fw\\_discards](#)

- [How do I run a script or program immediately after my network interface goes up?](#)

16MiB

가

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/etc/sysctl.conf

sysctl -p

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```
# set min/default/max TCP read buffer
net.ipv4.tcp_rmem = 4096 87380 16777216
# set min/default/max TCP write buffer
net.ipv4.tcp_wmem = 4096 16384 16777216

# set maximum non-TCP receive socket buffer size
net.core.rmem_max = 16777216
# set maximum non-TCP write socket buffer size
net.core.wmem_max = 16777216
```

## Network Budget

/proc/net/softnet\_stat

가

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```
# cat /proc/net/softnet_stat
0073d76b 00000000 000049ae 00000000 00000000 00000000 00000000 00000000
00000000 00000000
```

가

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300

가

300

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가

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/etc/sysctl.conf

sysctl -p

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```
# set number of packets softirq receives off NIC before exiting
net.core.netdev_budget = 1000
```

vm.min\_free\_kbytes  
RAM 20 %

1GiB

가

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/etc/sysctl.conf

sysctl -p

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```
vm.min_free_kbytes = 1048576
```

- <https://access.redhat.com/solutions/127143>
- <https://access.redhat.com/articles/1391433>

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