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## Linux Disable or Enable ExecShield Buffer Overflows Protection

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Now that I have Cent OS (RHEL clone) installed on my IBM server, I'm wondering what is ExecShield and how do I disable the same?



ExecShield is security Linux kernel patch to avoid worms and other problems.

Wikipedia has more information about [Exec Shield](#) <sup>[2]</sup> project:

Exec Shield is a project that got started at Red Hat, Inc in late 2002 with the aim of reducing the risk of worm or other automated remote attacks on Linux systems. The first result of the project was a security patch for the Linux kernel that adds an NX bit to x86 CPUs. While the Exec Shield project has had many other components, some people refer to this first patch as Exec Shield.

## Task: Disable ExecShield protection

Type the following command as root user:

```
# sysctl -w kernel.exec-shield=0
```

You can disable it permanently system-wide after each and every reboot by adding following line to /etc/sysctl.conf file:

```
# vi /etc/sysctl.conf
```

Append following line

```
kernel.exec-shield=0
```

Save and close the file. Please note that I don't recommend disabling ExecShield protection.

You can also disable protection by appending the following parameter to the kernel command line in the GRUB bootloader to kernel line:

```
# vi /etc/grub.conf
```

Modify / append exec-shield=0 parameter as follows:

```
kernel /vmlinuz-2.6.8 ro root=LABEL=/ exec-shield=0
```

Close and save the file.

## Enable ExecShield Protection Against Buffer Overflows

Open your /etc/sysctl.conf file:

```
# vi /etc/sysctl.conf
```

Add the following lines:

```
kernel.exec-shield = 1  
kernel.randomize_va_space = 1
```

Save and close the file. First line will enable ExecShield protection and second line will enable random placement of virtual memory regions protection. To load in sysctl settings, enter:

```
# sysctl -p
```

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[1] Image: <http://www.cyberciti.biz/faq/category/redhat-and-friends/>

[2] Exec Shield: [http://en.wikipedia.org/wiki/Exec\\_Shield](http://en.wikipedia.org/wiki/Exec_Shield)

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