

```
#####  
## Endurecer el arranque ante una eliminación o manipulación del directorio:  
## /boot en un Sistema CentOS 6.x  
#####  
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## Versión: 1.0  
## internet@cadilinea.com - cadilinea.com/blog - 'Tinkering around Linux'  
## Requisitos Linux: ->> CentOS 6.6 con Grub Legacy 0.99 (por defecto).  
#####  
## Cite al autor si utiliza, distribuye o modifica el presente documento.  
## La utilización del presente documento es bajo su entera responsabilidad.  
#####
```

1- Partimos de una máquina virtual en CentOS-6.6 configurada como minimal y con su interface de red eth0 en dhcp --> 192.168.1.111 como ejemplo, aunque la configuración de red no es imprescindible para el caso.

```
[carlos@localhost ~]$ ssh root@192.168.1.111  
The authenticity of host '192.168.1.111 (192.168.1.111)' can't be established.  
RSA key fingerprint is 93:59:a3:e1:72:72:19:c8:30:a9:fd:e6:82:79:38:62.  
Are you sure you want to continue connecting (yes/no)? yes  
Warning: Permanently added '192.168.1.111' (RSA) to the list of known hosts.  
root@192.168.1.111's password:  
Last login: Sat Mar 14 19:59:42 2015  
[root@CentOS ~]# ll  
total 20  
-rw-----. 1 root root 1144 mar 14 14:51 anaconda-ks.cfg  
-rw-r--r--. 1 root root 9562 mar 14 14:51 install.log  
-rw-r--r--. 1 root root 3161 mar 14 14:48 install.log.syslog  
[root@CentOS ~]# cd /  
[root@CentOS /]# ll  
total 90  
dr-xr-xr-x. 2 root root 4096 mar 14 19:48 bin  
dr-xr-xr-x. 5 root root 1024 mar 14 19:51 boot  
drwxr-xr-x. 19 root root 3600 mar 16 14:11 dev  
drwxr-xr-x. 62 root root 4096 mar 16 14:11 etc  
drwxr-xr-x. 2 root root 4096 sep 23 2011 home  
dr-xr-xr-x. 8 root root 4096 mar 14 14:47 lib  
dr-xr-xr-x. 8 root root 12288 mar 14 19:48 lib64  
drwx-----. 2 root root 16384 mar 14 14:45 lost+found  
drwxr-xr-x. 2 root root 4096 sep 23 2011 media  
drwxr-xr-x. 2 root root 4096 sep 23 2011 mnt  
drwxr-xr-x. 2 root root 4096 sep 23 2011 opt  
dr-xr-xr-x. 83 root root 0 mar 16 14:10 proc  
dr-xr-x---. 3 root root 4096 mar 14 19:56 root  
dr-xr-xr-x. 2 root root 12288 mar 14 19:49 sbin  
drwxr-xr-x. 7 root root 0 mar 16 14:10 selinux  
drwxr-xr-x. 2 root root 4096 sep 23 2011 srv  
drwxr-xr-x. 13 root root 0 mar 16 14:10 sys  
drwxrwxrwt. 3 root root 4096 mar 16 14:11 tmp  
drwxr-xr-x. 13 root root 4096 mar 14 14:45 usr  
drwxr-xr-x. 18 root root 4096 mar 14 14:48 var
```

--> **Tenemos nuestro directorio /boot como inicialmente debe ser.**

```
[root@CentOS /]# cd /boot/
[root@CentOS boot]# ll
total 49908
-rw-r--r--. 1 root root 106313 mar 11 23:31 config-2.6.32-504.12.2.el6.x86_64
-rw-r--r--. 1 root root 106308 oct 15 06:54 config-2.6.32-504.el6.x86_64
drwxr-xr-x. 3 root root 1024 mar 14 14:48 efi
drwxr-xr-x. 2 root root 1024 mar 14 19:52 grub
-rw-----. 1 root root 18630563 mar 14 19:52 initramfs-2.6.32-504.12.2.el6.x86_64.img
-rw-----. 1 root root 18434236 mar 14 14:51 initramfs-2.6.32-504.el6.x86_64.img
drwx-----. 2 root root 12288 mar 14 14:45 lost+found
-rw-r--r--. 1 root root 200256 mar 11 23:32 symvers-2.6.32-504.12.2.el6.x86_64.gz
-rw-r--r--. 1 root root 200191 oct 15 06:55 symvers-2.6.32-504.el6.x86_64.gz
-rw-r--r--. 1 root root 2545042 mar 11 23:31 System.map-2.6.32-504.12.2.el6.x86_64
-rw-r--r--. 1 root root 2544748 oct 15 06:54 System.map-2.6.32-504.el6.x86_64
-rwxr-xr-x. 1 root root 4152720 mar 11 23:31 vmlinuz-2.6.32-504.12.2.el6.x86_64
-rwxr-xr-x. 1 root root 4152336 oct 15 06:54 vmlinuz-2.6.32-504.el6.x86_64
```

2- Movemos el directorio /boot a /boot-1

```
[root@CentOS /]# mv /boot/ /boot-1
mv: no se puede mover «/boot/» a «/boot-1»: Dispositivo o recurso ocupado
[root@CentOS /]# umount /boot
[root@CentOS /]# mv /boot/ /boot-1
[root@CentOS /]# ll
total 92
dr-xr-xr-x. 2 root root 4096 mar 14 19:48 bin
drwxr-xr-x. 2 root root 4096 mar 14 14:45 boot-1
drwxr-xr-x. 19 root root 3600 mar 16 14:11 dev
drwxr-xr-x. 62 root root 4096 mar 16 14:20 etc
drwxr-xr-x. 2 root root 4096 sep 23 2011 home
dr-xr-xr-x. 8 root root 4096 mar 14 14:47 lib
dr-xr-xr-x. 8 root root 12288 mar 14 19:48 lib64
drwx-----. 2 root root 16384 mar 14 14:45 lost+found
drwxr-xr-x. 2 root root 4096 sep 23 2011 media
drwxr-xr-x. 2 root root 4096 sep 23 2011 mnt
drwxr-xr-x. 2 root root 4096 sep 23 2011 opt
dr-xr-xr-x. 81 root root 0 mar 16 14:10 proc
dr-xr-x---. 3 root root 4096 mar 14 19:56 root
dr-xr-xr-x. 2 root root 12288 mar 14 19:49 sbin
drwxr-xr-x. 7 root root 0 mar 16 14:10 selinux
drwxr-xr-x. 2 root root 4096 sep 23 2011 srv
drwxr-xr-x. 13 root root 0 mar 16 14:10 sys
drwxrwxrwt. 3 root root 4096 mar 16 14:11 tmp
drwxr-xr-x. 13 root root 4096 mar 14 14:45 usr
drwxr-xr-x. 18 root root 4096 mar 14 14:48 var
```

3- Reiniciamos el Stma. Con nuestro /boot-1

```
[root@CentOS /]# shutdown -r 0
```

```
[root@CentOS /]# ll
total 92
dr-xr-xr-x. 2 root root 4096 mar 14 19:48 bin
drwxr-xr-x. 2 root root 4096 mar 14 14:45 boot-1
drwxr-xr-x. 19 root root 3600 mar 16 14:23 dev
drwxr-xr-x. 62 root root 4096 mar 16 14:22 etc
drwxr-xr-x. 2 root root 4096 sep 23 2011 home
dr-xr-xr-x. 8 root root 4096 mar 14 14:47 lib
dr-xr-xr-x. 8 root root 12288 mar 14 19:48 lib64
drwx-----. 2 root root 16384 mar 14 14:45 lost+found
drwxr-xr-x. 2 root root 4096 sep 23 2011 media
drwxr-xr-x. 2 root root 4096 sep 23 2011 mnt
drwxr-xr-x. 2 root root 4096 sep 23 2011 opt
dr-xr-xr-x. 81 root root 0 mar 16 14:22 proc
dr-xr-x---. 3 root root 4096 mar 14 19:56 root
dr-xr-xr-x. 2 root root 12288 mar 14 19:49 sbin
drwxr-xr-x. 7 root root 0 mar 16 14:22 selinux
drwxr-xr-x. 2 root root 4096 sep 23 2011 srv
drwxr-xr-x. 13 root root 0 mar 16 14:22 sys
drwxrwxrwt. 3 root root 4096 mar 16 14:23 tmp
drwxr-xr-x. 13 root root 4096 mar 14 14:45 usr
drwxr-xr-x. 18 root root 4096 mar 14 14:48 var
```

--> **El arranque ha sido OK.**

4- Eliminamos tambien /boot-1. En definitiva todos los directorios /boot* y Reiniciamos,

```
[root@CentOS /]# rm -fr /boot-1/
```

--> **Observamos que ya no esta montado, y nos permite su eliminaci3n sin problema.**

```
[root@CentOS /]# ll
total 88
dr-xr-xr-x. 2 root root 4096 mar 14 19:48 bin
drwxr-xr-x. 19 root root 3600 mar 16 14:23 dev
drwxr-xr-x. 62 root root 4096 mar 16 14:22 etc
drwxr-xr-x. 2 root root 4096 sep 23 2011 home
dr-xr-xr-x. 8 root root 4096 mar 14 14:47 lib
dr-xr-xr-x. 8 root root 12288 mar 14 19:48 lib64
drwx-----. 2 root root 16384 mar 14 14:45 lost+found
drwxr-xr-x. 2 root root 4096 sep 23 2011 media
drwxr-xr-x. 2 root root 4096 sep 23 2011 mnt
drwxr-xr-x. 2 root root 4096 sep 23 2011 opt
dr-xr-xr-x. 81 root root 0 mar 16 14:22 proc
dr-xr-x---. 3 root root 4096 mar 14 19:56 root
dr-xr-xr-x. 2 root root 12288 mar 14 19:49 sbin
drwxr-xr-x. 7 root root 0 mar 16 14:22 selinux
drwxr-xr-x. 2 root root 4096 sep 23 2011 srv
```

```
drwxr-xr-x. 13 root root  0 mar 16 14:22 sys
drwxrwxrwt.  3 root root 4096 mar 16 14:23 tmp
drwxr-xr-x. 13 root root 4096 mar 14 14:45 usr
drwxr-xr-x. 18 root root 4096 mar 14 14:48 var
```

5- Por último volvemos a reiniciar sin ningún /boot. ¿Que ha pasado?.

--> El Stma. arranca perfectamente.

```
[root@CentOS /]# shutdown -r 0
```

```
[root@CentOS ~]# cd /
```

```
[root@CentOS /]# ll
```

```
total 88
```

```
dr-xr-xr-x.  2 root root  4096 mar 14 19:48 bin
drwxr-xr-x. 19 root root  3600 mar 16 14:29 dev
drwxr-xr-x. 62 root root  4096 mar 16 14:29 etc
drwxr-xr-x.  2 root root  4096 sep 23  2011 home
dr-xr-xr-x.  8 root root  4096 mar 14 14:47 lib
dr-xr-xr-x.  8 root root 12288 mar 14 19:48 lib64
drwx-----. 2 root root 16384 mar 14 14:45 lost+found
drwxr-xr-x.  2 root root  4096 sep 23  2011 media
drwxr-xr-x.  2 root root  4096 sep 23  2011 mnt
drwxr-xr-x.  2 root root  4096 sep 23  2011 opt
dr-xr-xr-x. 81 root root    0 mar 16 14:29 proc
dr-xr-x---.  3 root root  4096 mar 14 19:56 root
dr-xr-xr-x.  2 root root 12288 mar 14 19:49 sbin
drwxr-xr-x.  7 root root    0 mar 16 14:29 selinux
drwxr-xr-x.  2 root root  4096 sep 23  2011 srv
drwxr-xr-x. 13 root root    0 mar 16 14:29 sys
drwxrwxrwt.  3 root root  4096 mar 16 14:29 tmp
drwxr-xr-x. 13 root root  4096 mar 14 14:45 usr
drwxr-xr-x. 18 root root  4096 mar 14 14:48 var
```