
Subject: Remount the whole root in read-only
Posted by [corwin](#) on Thu, 25 Feb 2010 17:05:13 GMT
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Hi All,

I'm trying to make a container with only a few directories mounted as RW (/var /usr/local /tmp). Playing a little with mounts scripts I've got it working remounting all directories with --bind and RO option
But I still have the whole / mounted as RW, so it's possible to create directories and files on the first level (/). How to prevent it?

This trick doesn't work

```
mount -f -oremount,ro -t simfs /v0/vz/private/101 /v0/vz/root/101
```

Any help will be very appreciated!

Subject: Re: Remount the whole root in read-only
Posted by [corwin](#) on Sat, 27 Feb 2010 18:01:57 GMT
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My very dirty solution to fix it

```
fs_simfs_ro.c:  
-----  
#include <stdlib.h>  
#include <unistd.h>  
#include <sys/mount.h>  
#include <sys/vfs.h>  
#include <errno.h>  
#include <stdio.h>  
#include <string.h>  
  
#include "types.h"  
#include "fs.h"  
#include "logger.h"  
#include "vzerror.h"  
  
int vz_mount(fs_param *fs, int remount)  
{  
    int mntopt = 0;  
  
    if (fs->noatime == YES)  
        mntopt |= MS_NOATIME;  
    if (remount)  
        mntopt |= MS_REMOUNT;
```

```

mntopt |= MS_RDONLY;

logger(2, 0, "Mounting root: %s %s", fs->root, fs->private);
if (mount(fs->private, fs->root, "simfs", mntopt,
          remount ? "" : fs->private) < 0)
{
    logger(-1, errno, "Can't mount: %s %s", fs->root, fs->private);
    if (errno == ENODEV)
        logger(-1, errno, "Kernel lacks simfs support. Please "
               "compile it in, or load simfs module.");
    return VZ_FS_CANTMOUNT;
}
return 0;
}

-----
gcc -I../../include/ -Wall -O2 -fpic -shared -ldl -o libfs_simfs_ro.so fs_simfs_ro.c

```

New /usr/sbin/vzctl wrapper

```

#!/bin/sh

if [ x$1 = xstart_ro ]; then
    LD_PRELOAD=/usr/lib/libfs_simfs_ro.so
    export LD_PRELOAD
    shift
    /usr/sbin/vzctl.orig start $@
else
    /usr/sbin/vzctl.orig $@
fi

```

Maybe it'll help somebody
