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Subject: [PATCH 11/25] elevate mount count for extended attributes

Posted by [Dave Hansen](#) on Mon, 11 Dec 2006 22:30:09 GMT

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This basically audits the callers of xattr\_permission(), which calls permission() and can perform writes to the filesystem.

Signed-off-by: Dave Hansen <[haveblue@us.ibm.com](mailto:haveblue@us.ibm.com)>

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```
lxc-dave/fs/nfsd/nfs4proc.c |  7 ++++++
lxc-dave/fs/xattr.c       | 14 ++++++-----
2 files changed, 20 insertions(+), 1 deletion(-)
```

```
diff -puN fs/nfsd/nfs4proc.c~10-24-elevate-mount-count-for-extended-attributes fs/nfsd/nfs4proc.c
--- lxc/fs/nfsd/nfs4proc.c~10-24-elevate-mount-count-for-extended-attributes 2006-12-11
14:22:03.000000000 -0800
+++ lxc-dave/fs/nfsd/nfs4proc.c 2006-12-11 14:22:03.000000000 -0800
@@ -626,14 +626,19 @@ nfsd4_setattr(struct svc_rqst *rqstp, st
    return status;
}
}
+ status = mnt_want_write(current_fh->fh_export->ex_mnt);
+ if (status)
+ return status;
status = nfs_ok;
if (setattr->sa_acl != NULL)
    status = nfsd4_set_nfs4_acl(rqstp, &cstate->current_fh,
        setattr->sa_acl);
if (status)
- return status;
+ goto out;
status = nfsd_setattr(rqstp, &cstate->current_fh, &setattr->sa_iattr,
    0, (time_t)0);
+out:
+ mnt_drop_write(current_fh->fh_export->ex_mnt);
return status;
}
```

```
diff -puN fs/xattr.c~10-24-elevate-mount-count-for-extended-attributes fs/xattr.c
```

```
--- lxc/fs/xattr.c~10-24-elevate-mount-count-for-extended-attributes 2006-12-11
```

```
14:22:03.000000000 -0800
```

```
+++ lxc-dave/fs/xattr.c 2006-12-11 14:22:03.000000000 -0800
@@ -12,6 +12,7 @@
#include <linux/smp_lock.h>
#include <linux/file.h>
#include <linux/xattr.h>
+#include <linux/mount.h>
```

```

#include <linux/namei.h>
#include <linux/security.h>
#include <linux/syscalls.h>
@@ -237,7 +238,11 @@ @@ sys_setxattr(char __user *path, char __u
    error = user_path_walk(path, &nd);
    if (error)
        return error;
+   error = mnt_want_write(nd.mnt);
+   if (error)
+       return error;
    error = setxattr(nd.dentry, name, value, size, flags);
+   mnt_drop_write(nd.mnt);
    path_release(&nd);
    return error;
}
@@ -252,7 +257,11 @@ @@ sys_lsetxattr(char __user *path, char __
    error = user_path_walk_link(path, &nd);
    if (error)
        return error;
+   error = mnt_want_write(nd.mnt);
+   if (error)
+       return error;
    error = setxattr(nd.dentry, name, value, size, flags);
+   mnt_drop_write(nd.mnt);
    path_release(&nd);
    return error;
}
@@ -268,9 +277,14 @@ @@ sys_fsetxattr(int fd, char __user *name,
    f = fget(fd);
    if (!f)
        return error;
+   error = mnt_want_write(f->f_vfsmnt);
+   if (error)
+       goto out_fput;
    dentry = f->f_path.dentry;
    audit_inode(NULL, dentry->d_inode);
    error = setxattr(dentry, name, value, size, flags);
+   mnt_drop_write(f->f_vfsmnt);
+out_fput:
    fput(f);
    return error;
}

```

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