
Subject: [patch 14/22] elevate mount count for extended attributes

Posted by [Cedric Le Goater](#) on Thu, 07 Jun 2007 15:25:41 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 <hansendc@us.ibm.com>

fs/nfsd/nfs4proc.c | 7 ++++++-
fs/xattr.c | 16 ++++++++-----
2 files changed, 20 insertions(+), 3 deletions(-)

Index: 2.6.22-rc4-mm2-robindmount/fs/nfsd/nfs4proc.c

```
=====
--- 2.6.22-rc4-mm2-robindmount.orig/fs/nfsd/nfs4proc.c
+++ 2.6.22-rc4-mm2-robindmount/fs/nfsd/nfs4proc.c
@@ -626,14 +626,19 @@ nfsd4_setattr(struct svc_rqst *rqstp, st
     return status;
 }
 }
+ status = mnt_want_write(cstate->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(cstate->current_fh.fh_export->ex_mnt);
+ return status;
 }
```

Index: 2.6.22-rc4-mm2-robindmount/fs/xattr.c

```
=====
--- 2.6.22-rc4-mm2-robindmount.orig/fs/xattr.c
+++ 2.6.22-rc4-mm2-robindmount/fs/xattr.c
@@ -11,6 +11,7 @@
#include <linux/slab.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>
@@ -32,8 +33,6 @@ xattr_permission(struct inode *inode, co
    * filesystem or on an immutable / append-only inode.
    */
    if (mask & MAY_WRITE) {
- if (IS_RDONLY(inode))
- return -EROFS;
    if (IS_IMMUTABLE(inode) || IS_APPEND(inode))
        return -EPERM;
    }
@@ -236,7 +235,11 @@ 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;
}
@@ -251,7 +254,11 @@ 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;
}
@@ -267,9 +274,14 @@ sys_fsetxattr(int fd, char __user *name,
    f = fget(fd);
    if (!f)
        return error;
+ error = mnt_want_write(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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