Subject: [patch 02/10] unprivileged mounts: allow unprivileged umount
Posted by Miklos Szeredi on Fri, 27 Apr 2007 12:04:19 GMT
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The owner doesn't need sysadmin capabilities to call umount().

Similar behavior as umount(8) on mounts having "user=UID" option in /etc/mtab.
The difference is that umount also checks /etc/fstab, presumably to exclude
another mount on the same mountpoint.

Signed-off-by: Miklos Szeredi <mszeredi@suse.cz>

Index: linux/fs/namespace.c
===
--- linux.orig/fs/namespace.c 2007-04-26 13:10:48.000000000 +0200
+++ linux/fs/namespace.c 2007-04-26 13:16:21.000000000 +0200
@@ -658,6 +658,27 @@ static int do_umount(struct vfsmount *mn
  return retval;
 }

+static bool is_mount_owner(struct vfsmount *mnt, uid_t uid)
+{
+ return (mnt->mnt_flags & MNT_USER) && mnt->mnt_uid == uid;
+}
+
+/*
+ * umount is permitted for
+ * - sysadmin
+ * - mount owner, if not forced umount
+ */
+static bool permit_umount(struct vfsmount *mnt, int flags)
+{
+ if (capable(CAP_SYS_ADMIN))
+ return true;
+
+ if (flags & MNT_FORCE)
+ return false;
+
+ return is_mount_owner(mnt, current->fsuid);
+}
+
 /*
  * Now umount can handle mount points as well as block devices.
  * This is important for filesystems which use unnamed block devices.
@@ -681,7 +702,7 @@ asmlinkage long sys_umount(char __user *

```
   goto dput_and_out;

  retval = -EPERM;
- if (!capable(CAP_SYS_ADMIN))
+ if (!permit_umount(nd.mnt, flags))
   goto dput_and_out;

  retval = do_umount(nd.mnt, flags);

--
```

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