Subject: Re: [patch] unprivileged mounts update Posted by Miklos Szeredi on Thu, 26 Apr 2007 15:23:14 GMT

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> Quoting Miklos Szeredi (miklos@szeredi.hu):
>>> Right, I figure if the normal action is to always do
>>> mnt->user = current->fsuid, then for the special case we
>>> pass a uid in someplace. Of course... do we not have a
>>> place to do that? Would it be a no-no to use 'data' for
>> > a non-fs-specific arg?
> >
>> I guess it would be OK for bind, but not for new- and remounts, where
> > 'data' is already used.
> >
>> Maybe it's best to stay with fsuid after all, and live with having to
>> restore capabilities. It's not so bad after all, this seems to do the
> > trick:
> >
>> cap_t cap = cap_get_proc();
>> setfsuid(uid);
> > cap_set_proc(cap);
>> Unfortunately these functions are not in libc, but in a separate
> > "libcap" library. Ugh.
> Ok, are you still planning to nix the MS_SETUSER flag, though, as
> Eric suggested? I think it's cleanest - always set the mnt->user
> field to current->fsuid, and require CAP_SYS_ADMIN if the
> mountpoint->mnt->user != current->fsuid.
```

It would be a nice cleanup, but I think it's unworkable for the following reasons:

Up till now mount(2) and umount(2) always required CAP_SYS_ADMIN, and we must make sure, that unless there's some explicit action by the sysadmin, these rules are still enfoced.

For example, with just a check for mnt->mnt_uid == current->fsuid, a fsuid=0 process could umount or submount all the "legacy" mounts even without CAP_SYS_ADMIN.

This is a fundamental security problem, with getting rid of MS_SETUSER and MNT_USER.

Another, rather unlikely situation is if an existing program sets fsuid to non-zero before calling mount, hence unwantingly making that mount owned by some user after these patches.

Also adding "user=0" to the options in /proc/mounts would be an inteface breakage, that is probably harmless, but people wouldn't like it. Special casing the zero uid for this case is more ugly IMO, than the problem we are trying to solve.

If we didn't have existing systems to deal with, then of course I'd agree with Eric's suggestion.

Miklos

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