
Subject: [patch 05/10] add "permit user mounts in new namespace" clone flag
Posted by [Miklos Szeredi](#) on Thu, 12 Apr 2007 16:45:46 GMT
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From: Miklos Szeredi <mszeredi@suse.cz>

If CLONE_NEWNS and CLONE_NEWNS_USERMNT are given to clone(2) or unshare(2), then allow user mounts within the new namespace.

This is not flexible enough, because user mounts can't be enabled for the initial namespace.

The remaining clone bits also getting dangerously few...

Alternatives are:

- prctl() flag
- setting through the containers filesystem

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

Index: linux/fs/namespace.c

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--- linux.orig/fs/namespace.c 2007-04-12 13:46:19.000000000 +0200

+++ linux/fs/namespace.c 2007-04-12 13:54:36.000000000 +0200

@@ -1617,6 +1617,8 @@ struct mnt_namespace *copy_mnt_ns(int fl
return ns;

new_ns = dup_mnt_ns(ns, new_fs);
+ if (new_ns && (flags & CLONE_NEWNS_USERMNT))
+ new_ns->flags |= MNT_NS_PERMIT_USERMOUNTS;

put_mnt_ns(ns);
return new_ns;

Index: linux/include/linux/sched.h

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--- linux.orig/include/linux/sched.h 2007-04-12 13:26:48.000000000 +0200

+++ linux/include/linux/sched.h 2007-04-12 13:54:36.000000000 +0200

@@ -26,6 +26,7 @@

#define CLONE_STOPPED 0x02000000 /* Start in stopped state */
#define CLONE_NEWUTS 0x04000000 /* New utsname group? */
#define CLONE_NEWIPC 0x08000000 /* New ipcns */
+#define CLONE_NEWNS_USERMNT 0x10000000 /* Allow user mounts in ns? */

/*
* Scheduling policies

Index: linux/kernel/fork.c

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--- linux.orig/kernel/fork.c 2007-04-11 18:27:46.000000000 +0200
+++ linux/kernel/fork.c 2007-04-12 13:59:10.000000000 +0200
@@ -1586,7 +1586,7 @@ asmlinkage long sys_unshare(unsigned lon
    err = -EINVAL;
    if (unshare_flags & ~(CLONE_THREAD|CLONE_FS|CLONE_NEWNS|CLONE_SIGHAND|
        CLONE_VM|CLONE_FILES|CLONE_SYSVSEM|
-   CLONE_NEWUTS|CLONE_NEWIPC))
+   CLONE_NEWUTS|CLONE_NEWIPC|CLONE_NEWNS_USERMNT))
        goto bad_unshare_out;

    if ((err = unshare_thread(unshare_flags)))
--
```

Containers mailing list
Containers@lists.linux-foundation.org
<https://lists.linux-foundation.org/mailman/listinfo/containers>
