
Subject: [RFC] [PATCH 4/4] uid_ns: Add filesystem uid checks

Posted by [serue](#) on Tue, 07 Nov 2006 04:20:32 GMT

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With user namespaces, two users in different namespaces might have the same uid, but should not have access to each others files.

Add a user_namespace pointer to the superblock, and check that whenever the uid is checked.

Signed-off-by: Serge E. Hallyn <serue@us.ibm.com>

```
fs/super.c      | 4 ++++
include/linux/fs.h | 6 +++++-
2 files changed, 9 insertions(+), 1 deletions(-)
```

b47f5fefa827b613c885fe851a8ce2642c2cb135

diff --git a/fs/super.c b/fs/super.c

index 95214f0..33354a8 100644

--- a/fs/super.c

+++ b/fs/super.c

@ @ -37,6 +37,7 @ @

#include <linux/idr.h>

#include <linux/kobject.h>

#include <linux/mutex.h>

+#include <linux/user.h>

#include <asm/uaccess.h>

@ @ -81,6 +82,8 @ @ static struct super_block *alloc_super(s

* lock ordering than usbfs:

*/

lockdep_set_class(&s->s_lock, &type->s_lock_key);

+ s->s_user_ns = current->nsproxy->user_ns;

+ get_user_ns(current->nsproxy->user_ns);

down_write(&s->s_umount);

s->s_count = S_BIAS;

atomic_set(&s->s_active, 1);

@ @ -109,6 +112,7 @ @ out:

*/

static inline void destroy_super(struct super_block *s)

{

+ put_user_ns(s->s_user_ns);

security_sb_free(s);

kfree(s);

```

}
diff --git a/include/linux/fs.h b/include/linux/fs.h
index 699c7b5..6aac556 100644
--- a/include/linux/fs.h
+++ b/include/linux/fs.h
@@ -279,6 +279,7 @@ extern int dir_notify_enable;
#include <linux/sched.h>
#include <linux/mutex.h>
#include <linux/kevent.h>
+#include <linux/nsproxy.h>

#include <asm/atomic.h>
#include <asm/semaphore.h>
@@ -294,6 +295,7 @@ struct kstatfs;
struct vm_area_struct;
struct vfsmount;
struct pagevec;
+struct user_namespace;

extern void __init inode_init(unsigned long);
extern void __init inode_init_early(void);
@@ -982,6 +984,7 @@ struct super_block {
    unsigned char s_blocksize_bits;
    unsigned char s_dirt;
    unsigned long long s_maxbytes; /* Max file size */
+ struct user_namespace *s_user_ns;
    struct file_system_type *s_type;
    struct super_operations *s_op;
    struct dquot_operations *dq_op;
@@ -1260,7 +1263,8 @@ static inline void free_secdata(void *se
static inline int inode_task_same_uid(struct inode *ino,
    struct task_struct *tsk)
{
- return (ino->i_uid == tsk->fsuid);
+ return (ino->i_uid == tsk->fsuid &&
+ ino->i_sb->s_user_ns == current->nsproxy->user_ns);
}
#endif /* __KERNEL__ */
#endif /* _LINUX_FS_H */
--
1.1.6

```

Containers mailing list
Containers@lists.osdl.org
<https://lists.osdl.org/mailman/listinfo/containers>
