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Subject: [PATCH 5/8] user ns: prepare copy\_tree, copy\_mnt, and their callers to handle errs

Posted by [serue](#) on Tue, 19 Dec 2006 23:01:06 GMT

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From: Serge E. Hallyn <serue@us.ibm.com>

Subject: [PATCH 5/8] user ns: prepare copy\_tree, copy\_mnt, and their callers to handle errs

With sharedusersns and non-sharedusersns mounts, it will be possible for clone\_mnt to return -EPERM if a namespace tries to bind mount a non-sharedusersns vfsmnt from another user namespace. But currently they only return NULL, which is interpreted as -ENOMEM. Update the callers to handle other errors.

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

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fs/namespace.c | 20 ++++++++-----

fs/pnode.c | 5 +++--

2 files changed, 15 insertions(+), 10 deletions(-)

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

index 9f98a67..f85dd73 100644

--- a/fs/namespace.c

+++ b/fs/namespace.c

@@ -709,8 +709,9 @@ struct vfsmount \*copy\_tree(struct vfsmou  
return NULL;

```
res = q = clone_mnt(mnt, dentry, flag);  
- if (!q)  
- goto Enomem;  
+ if (!q || IS_ERR(q)) {  
+ return q;  
+ }  
q->mnt_mountpoint = mnt->mnt_mountpoint;
```

```
p = mnt;  
@@ -731,8 +732,9 @@ struct vfsmount *copy_tree(struct vfsmou  
nd.mnt = q;  
nd.dentry = p->mnt_mountpoint;  
q = clone_mnt(p, p->mnt_root, flag);  
- if (!q)  
- goto Enomem;  
+ if (!q || IS_ERR(q)) {  
+ goto Error;  
+ }  
spin_lock(&vfsmount_lock);  
list_add_tail(&q->mnt_list, &res->mnt_list);  
attach_mnt(q, &nd);
```

```

@@ -740,7 +742,7 @@ struct vfsmount *copy_tree(struct vfsmou
    }
    }
    return res;
-Enomem:
+Error:
    if (res) {
        LIST_HEAD(umount_list);
        spin_lock(&vfsmount_lock);
@@ -748,7 +750,7 @@ Enomem:
        spin_unlock(&vfsmount_lock);
        release_mounts(&umount_list);
    }
- return NULL;
+ return q;
}

/*
@@ -928,8 +930,10 @@ static int do_loopback(struct nameidata
    else
        mnt = clone_mnt(old_nd.mnt, old_nd.dentry, 0);

- if (!mnt)
+ if (!mnt || IS_ERR(mnt)) {
+     err = mnt ? PTR_ERR(mnt) : -ENOMEM;
+     goto out;
+ }

    err = graft_tree(mnt, nd);
    if (err) {
@@ -1466,7 +1470,7 @@ struct mnt_namespace *dup_mnt_ns(struct
    /* First pass: copy the tree topology */
    new_ns->root = copy_tree(mnt_ns->root, mnt_ns->root->mnt_root,
        CL_COPY_ALL | CL_EXPIRE);
- if (!new_ns->root) {
+ if (!new_ns->root || IS_ERR(new_ns->root)) {
    up_write(&namespace_sem);
    kfree(new_ns);
    return NULL;
diff --git a/fs/pnode.c b/fs/pnode.c
index 56aacea..1821c95 100644
--- a/fs/pnode.c
+++ b/fs/pnode.c
@@ -187,8 +187,9 @@ int propagate_mnt(struct vfsmount *dest_

    source = get_source(m, prev_dest_mnt, prev_src_mnt, &type);

- if (!(child = copy_tree(source, source->mnt_root, type))) {

```

```
- ret = -ENOMEM;
+ child = copy_tree(source, source->mnt_root, type);
+ if (!child || IS_ERR(child)) {
+ ret = child ? PTR_ERR(child) : -ENOMEM;
+ list_splice(tree_list, tmp_list.prev);
+ goto out;
+ }
```

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1.4.1

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Containers@lists.osdl.org

<https://lists.osdl.org/mailman/listinfo/containers>

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