
Subject: [PATCH resend] proc: Fix proc_kill_inodes to kill dentries on all proc superblocks

Posted by [ebiederm](#) on Thu, 01 Nov 2007 15:39:45 GMT

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It appears we overlooked support for removing generic proc files when we added support for multiple proc super blocks. Handle that now.

Signed-off-by: Eric W. Biederman <ebiederm@xmission.com>

```
---
fs/proc/generic.c | 38 ++++++-----
fs/proc/internal.h |  2 ++
fs/proc/root.c    |  2 +-
3 files changed, 24 insertions(+), 18 deletions(-)

diff --git a/fs/proc/generic.c b/fs/proc/generic.c
index 1bdb624..3906770 100644
--- a/fs/proc/generic.c
+++ b/fs/proc/generic.c
@@ -561,28 +561,32 @@ static int proc_register(struct proc_dir_entry * dir, struct proc_dir_entry
 * dp
static void proc_kill_inodes(struct proc_dir_entry *de)
{
    struct list_head *p;
- struct super_block *sb = proc_mnt->mnt_sb;
+ struct super_block *sb;

    /*
     * Actually it's a partial revoke().
     */
- file_list_lock();
- list_for_each(p, &sb->s_files) {
- struct file * filp = list_entry(p, struct file, f_u.fu_list);
- struct dentry * dentry = filp->f_path.dentry;
- struct inode * inode;
- const struct file_operations *fops;
-
- if (dentry->d_op != &proc_dentry_operations)
- continue;
- inode = dentry->d_inode;
- if (PDE(inode) != de)
- continue;
- fops = filp->f_op;
- filp->f_op = NULL;
- fops_put(fops);
+ spin_lock(&sb_lock);
+ list_for_each_entry(sb, &proc_fs_type.fs_supers, s_instances) {
```

```

+ file_list_lock();
+ list_for_each(p, &sb->s_files) {
+ struct file * filp = list_entry(p, struct file, f_u.fu_list);
+ struct dentry * dentry = filp->f_path.dentry;
+ struct inode * inode;
+ const struct file_operations *fops;
+
+ if (dentry->d_op != &proc_dentry_operations)
+ continue;
+ inode = dentry->d_inode;
+ if (PDE(inode) != de)
+ continue;
+ fops = filp->f_op;
+ filp->f_op = NULL;
+ fops_put(fops);
+ }
+ file_list_unlock();
+ }
- file_list_unlock();
+ spin_unlock(&sb_lock);
+ }

```

static struct proc_dir_entry *proc_create(struct proc_dir_entry **parent,

diff --git a/fs/proc/internal.h b/fs/proc/internal.h

index 1820eb2..1b2b6c6 100644

--- a/fs/proc/internal.h

+++ b/fs/proc/internal.h

@@ -78,3 +78,5 @@ static inline int proc_fd(struct inode *inode)

```

{
    return PROC_I(inode)->fd;
}

```

+

+extern struct file_system_type proc_fs_type;

diff --git a/fs/proc/root.c b/fs/proc/root.c

index ec9cb3b..1f86bb8 100644

--- a/fs/proc/root.c

+++ b/fs/proc/root.c

@@ -98,7 +98,7 @@ static void proc_kill_sb(struct super_block *sb)

```

    put_pid_ns(ns);
}

```

-static struct file_system_type proc_fs_type = {

+struct file_system_type proc_fs_type = {

```

    .name = "proc",
    .get_sb = proc_get_sb,
    .kill_sb = proc_kill_sb,

```

--

1.5.3.rc6.17.g1911

Subject: Re: [PATCH resend] proc: Fix proc_kill_inodes to kill dentries on all proc superblocks

Posted by [Pavel Emelianov](#) on Thu, 01 Nov 2007 15:48:25 GMT

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Eric W. Biederman wrote:

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> that now.

>

> Signed-off-by: Eric W. Biederman <ebiederm@xmission.com>

AFAIS this is just making the kill for all the super blocks
we have.

Acked-by: Pavel Emelyanov <xemul@openvz.org>

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proc_dir_entry * dp

> static void proc_kill_inodes(struct proc_dir_entry *de)

> {

> struct list_head *p;

> - struct super_block *sb = proc_mnt->mnt_sb;

> + struct super_block *sb;

>

> /*

> * Actually it's a partial revoke().

> */

> - file_list_lock();

> - list_for_each(p, &sb->s_files) {

> - struct file * filp = list_entry(p, struct file, f_u.fu_list);

```

> - struct dentry * dentry = filp->f_path.dentry;
> - struct inode * inode;
> - const struct file_operations *fops;
> -
> - if (dentry->d_op != &proc_dentry_operations)
> - continue;
> - inode = dentry->d_inode;
> - if (PDE(inode) != de)
> - continue;
> - fops = filp->f_op;
> - filp->f_op = NULL;
> - fops_put(fops);
> + spin_lock(&sb_lock);
> + list_for_each_entry(sb, &proc_fs_type.fs_supers, s_instances) {
> + file_list_lock();
> + list_for_each(p, &sb->s_files) {
> + struct file * filp = list_entry(p, struct file, f_u.fu_list);
> + struct dentry * dentry = filp->f_path.dentry;
> + struct inode * inode;
> + const struct file_operations *fops;
> +
> + if (dentry->d_op != &proc_dentry_operations)
> + continue;
> + inode = dentry->d_inode;
> + if (PDE(inode) != de)
> + continue;
> + fops = filp->f_op;
> + filp->f_op = NULL;
> + fops_put(fops);
> + }
> + file_list_unlock();
> }
> - file_list_unlock();
> + spin_unlock(&sb_lock);
> }
>
> static struct proc_dir_entry *proc_create(struct proc_dir_entry **parent,
> diff --git a/fs/proc/internal.h b/fs/proc/internal.h
> index 1820eb2..1b2b6c6 100644
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> {
> return PROC_I(inode)->fd;
> }
> +
> +extern struct file_system_type proc_fs_type;
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```
> index ec9cb3b..1f86bb8 100644
> --- a/fs/proc/root.c
> +++ b/fs/proc/root.c
> @@ -98,7 +98,7 @@ static void proc_kill_sb(struct super_block *sb)
>   put_pid_ns(ns);
> }
>
> -static struct file_system_type proc_fs_type = {
> +struct file_system_type proc_fs_type = {
>   .name = "proc",
>   .get_sb = proc_get_sb,
>   .kill_sb = proc_kill_sb,
```

Containers mailing list

Containers@lists.linux-foundation.org

<https://lists.linux-foundation.org/mailman/listinfo/containers>

Subject: Re: Re: [PATCH resend] proc: Fix proc_kill_inodes to kill dentries on all proc superblocks

Posted by [Alexey Dobriyan](#) on Thu, 01 Nov 2007 15:59:38 GMT

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On Thu, Nov 01, 2007 at 06:48:25PM +0300, Pavel Emelyanov wrote:

> Eric W. Biederman wrote:

> > It appears we overlooked support for removing generic proc files

> > when we added support for multiple proc super blocks. Handle

> > that now.

> >

> > Signed-off-by: Eric W. Biederman <ebiederm@xmission.com>

>

> AFAIS this is just making the kill for all the super blocks

> we have.

>

> Aacked-by: Pavel Emelyanov <xemul@openvz.org>

bzzrt, this function is executed only for directories and symlinks, obviously buggy (you can't flip ->f_op on live file) and is going away after readdir/rmmod races for directories will be dealt the same way as for regular file.

> > --- a/fs/proc/generic.c

> > +++ b/fs/proc/generic.c

> > @@ -561,28 +561,32 @@ static int proc_register(struct proc_dir_entry * dir, struct proc_dir_entry * dp

> > static void proc_kill_inodes(struct proc_dir_entry *de)

> > {

```

>> struct list_head *p;
>> - struct super_block *sb = proc_mnt->mnt_sb;
>> + struct super_block *sb;
>>
>> /*
>>  * Actually it's a partial revoke().
>>  */
>> - file_list_lock();
>> - list_for_each(p, &sb->s_files) {
>> - struct file * filp = list_entry(p, struct file, f_u.fu_list);
>> - struct dentry * dentry = filp->f_path.dentry;
>> - struct inode * inode;
>> - const struct file_operations *fops;
>> -
>> - if (dentry->d_op != &proc_dentry_operations)
>> - continue;
>> - inode = dentry->d_inode;
>> - if (PDE(inode) != de)
>> - continue;
>> - fops = filp->f_op;
>> - filp->f_op = NULL;
>> - fops_put(fops);
>> + spin_lock(&sb_lock);
>> + list_for_each_entry(sb, &proc_fs_type.fs_supers, s_instances) {
>> + file_list_lock();
>> + list_for_each(p, &sb->s_files) {
>> + struct file * filp = list_entry(p, struct file, f_u.fu_list);
>> + struct dentry * dentry = filp->f_path.dentry;
>> + struct inode * inode;
>> + const struct file_operations *fops;
>> +
>> + if (dentry->d_op != &proc_dentry_operations)
>> + continue;
>> + inode = dentry->d_inode;
>> + if (PDE(inode) != de)
>> + continue;
>> + fops = filp->f_op;
>> + filp->f_op = NULL;
>> + fops_put(fops);
>> + }
>> + file_list_unlock();
>> }
>> - file_list_unlock();
>> + spin_unlock(&sb_lock);
>> }

```

Yup, all this bogo-revoke is going away RSN. you just kicked my lazy ass.

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

Subject: Re: Re: [PATCH resend] proc: Fix proc_kill_inodes to kill dentries on all proc superblocks

Posted by [ebiederm](#) on Thu, 01 Nov 2007 17:07:18 GMT

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Alexey Dobriyan <adobriyan@sw.ru> writes:

> Yup, all this bogo-revoke is going away RSN. you just kicked my lazy ass.

As long as the issue is fixed I don't care.

Eric

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

Subject: Re: [PATCH resend] proc: Fix proc_kill_inodes to kill dentries on all proc superblocks

Posted by [Sukadev Bhattiprolu](#) on Thu, 01 Nov 2007 19:57:12 GMT

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Pavel Emelianov [xemul@openvz.org] wrote:

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| > Signed-off-by: Eric W. Biederman <ebiederm@xmission.com>

|

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|

| Acked-by: Pavel Emelyanov <xemul@openvz.org>

Acked-by: Sukadev Bhattiprolu <sukadev@us.ibm.com>

|

```

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proc_dir_entry * dp
| > static void proc_kill_inodes(struct proc_dir_entry *de)
| > {
| > struct list_head *p;
| > - struct super_block *sb = proc_mnt->mnt_sb;
| > + struct super_block *sb;
| >
| > /*
| >  * Actually it's a partial revoke().
| >  */
| > - file_list_lock();
| > - list_for_each(p, &sb->s_files) {
| > - struct file * filp = list_entry(p, struct file, f_u.fu_list);
| > - struct dentry * dentry = filp->f_path.dentry;
| > - struct inode * inode;
| > - const struct file_operations *fops;
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| > - if (dentry->d_op != &proc_dentry_operations)
| > - continue;
| > - inode = dentry->d_inode;
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| > - fops = filp->f_op;
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| > + spin_lock(&sb_lock);
| > + list_for_each_entry(sb, &proc_fs_type.fs_supers, s_instances) {
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| > + struct file * filp = list_entry(p, struct file, f_u.fu_list);
| > + struct dentry * dentry = filp->f_path.dentry;
| > + struct inode * inode;
| > + const struct file_operations *fops;
| > +
| > + if (dentry->d_op != &proc_dentry_operations)
| > + continue;
| > + inode = dentry->d_inode;

```



```

| > + if (PDE(inode) != de)
| > + continue;
| > + fops = filp->f_op;
| > + filp->f_op = NULL;
| > + fops_put(fops);
| > + }
| > + file_list_unlock();
| > }
| > - file_list_unlock();
| > + spin_unlock(&sb_lock);
| > }
| >
| > static struct proc_dir_entry *proc_create(struct proc_dir_entry **parent,
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| > put_pid_ns(ns);
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| > .name = "proc",
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