## Subject: Re: [PATCH 2/2] Replace pid\_t in autofs with struct pid reference Posted by Herbert Poetzl on Thu, 22 Mar 2007 14:33:12 GMT

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On Thu, Mar 22, 2007 at 11:28:43AM +0900, Ian Kent wrote:
> On Wed, 2007-03-21 at 15:58 -0500, Serge E. Hallyn wrote:
> > Quoting Eric W. Biederman (ebiederm@xmission.com):
>> "Serge E. Hallyn" <serue@us.ibm.com> writes:
>>>
>>>> void autofs4_dentry_release(struct dentry *);
>>>> extern void autofs4 kill sb(struct super block *);
>>>> diff --git a/fs/autofs4/waitg.c b/fs/autofs4/waitg.c
>>>> index 9857543..4a9ad9b 100644
>>>> --- a/fs/autofs4/waitg.c
>>>> +++ b/fs/autofs4/waitq.c
>>>>> @ @ -141,8 +141,8 @ @ static void autofs4_notify_daemon(struct
>>>> packet->ino = wg->ino;
>>>> packet->uid = wq->uid;
>>>> packet->qid = wq->qid;
>>>> - packet->pid = wq->pid;
>>>> - packet->tgid = wq->tgid;
>>>>>+ packet->pid = pid nr(wq->pid);
>>>>+ packet->tgid = pid_nr(wq->tgid);
>>>> break;
>>>>
>>>> I'm assuming we build the packet in the process context of the
>>> daemon we are sending it to. If not we have a problem here.
>>>>
>>> Yes this is data being sent to a userspace daemon (lan pls
>>> correct me if I'm wrong) so the pid_nr is the only thing we can
>>> send.
>>>
>> Agreed. The question is are we in the user space daemon's process
>>> when we generate the pid_nr. Or do we stuff this in some kind of
>> socket, and the socket switch locations of the packet.
>>>
>>> Basically I'm just trying to be certain we are calling pid_nr in the
>>> proper context. Otherwise we could get the wrong pid when we have
>>> multiple pid namespaces in play.
>> We need to know what the userspace daemon being written to is doing
> > with autofs_ptype_{missing,expire}_{in,}direct() messages.
> At the moment autofs only uses the packet->pid for logging purposes.
> This solves an age old problem of not knowing who is causing mount
> requests.
```

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probably I'm wrong, but that sounds like the packet->pid

is supposed to be the pid of the process \_causing\_ the mount, not the user space daemon communicating with the kernel ...

- > I'm not aware of any other applications that use version 5 yet but > that of course could change. So we can't really know what will be done > with these ids at some point in the future. >> If I understand correctly, the pid being sent is of a process which
- >> tried to automount some directory. The message is being sent to the
- > > autofs daemon, which should be running in the root pid namespace.
- > > Yes, but it could be the autofs daemon itself in the expire case.
- > Usually it doesn't make sense to run an automounting application as > other than "root" but I'm not familiar with other possible userspace
- > applications. Perhaps User Mode Linux could be an issue?
- >
- >> So as it is, the pid\_nr(wq->pid) should be done under the init
- > > pid\_namespace, since it's a kthread. So as long as the userspace
- >> automount daemon is started in the root pid namespace, the pid it
- > > gets will be the right one.
- > > lan, does what I'm saying make sense, or am I wrong about how things
- > > work for autofs?
- > Yep. That's the way it is.

assumed we allow auto mounter mounts inside a context (I see no immediate reason not to do that) we want to know the name/pid space the userspace daemon is running in as well as the name/pid space of the trigger task

- > > thanks,
- > > -serge
- > >
- > > PS
- >> Note that if I'm right, but some machine starts autofs in a child
- > > pid\_namespace, the pid\_nr() the way I have it is wrong. I'm not sure in
- > > that case how we go about fixing that. Somehow we need to store the
- > > autofs userspace daemon's pid namespace pointer to help us find the
- > > proper pid\_nr.
- > In order for any user space application to use the module it must mount
- > the autofs file system, passing a file handle for the pipe to use for
- > communication. This must always be done. Can we grab the process pid
- > namespace at that time and store it in the superblock info structure?

probably yes, but if my assumption above is correct, that isn't necessarily the pid/space for the trigger process (although it makes sense that it \_should\_ be)

## best, Herbert

- > How does this affect getting ids for waitq request packets of other user
- > space processes triggering mounts? I'm guessing that they would need to
- > belong to the appropriate namespace for this mechanism to funtion
- > correctly.

>

> lan

>

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