
Subject: Re: [PATCH] struct file leakage

Posted by [Trond Myklebust](#) on Tue, 11 Jul 2006 12:04:06 GMT

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On Mon, 2006-07-10 at 03:05 -0700, Andrew Morton wrote:

> On Mon, 10 Jul 2006 13:05:35 +0400

> Kirill Korotaev <dev@sw.ru> wrote:

>

> > Hello!

> >

> > Andrew, this is a patch from Alexey Kuznetsov for 2.6.16.

> > I believe 2.6.17 still has this leak.

> >

> > -----

> >

> > 2.6.16 leaks like hell. While testing, I found massive leakage

> > (reproduced in openvz) in:

> >

> > *filp

> > *size-4096

> >

> > And 1 object leaks in

> > *size-32

> > *size-64

> > *size-128

> >

> >

> > It is the fix for the first one. filp leaks in the bowels

> > of namei.c.

> >

> > Seems, size-4096 is file table leaking in expand_fdtables.

>

> I suspect that's been there for a long time.

>

> > I have no idea what are the rest and why they show only

> > accompanying another leaks. Some debugging structs?

>

> I don't understand this. Are you implying that there are other bugs.

>

> > Signed-Off-By: Alexey Kuznetsov <kuznet@ms2.inr.ac.ru>

> > CC: Kirill Korotaev <dev@openvz.org>

> >

>

> > --- linux-2.6.16-w/fs/namei.c 2006-07-10 11:43:11.000000000 +0400

> > +++ linux-2.6.16/fs/namei.c 2006-07-10 11:53:36.000000000 +0400

> > @@ -1774,8 +1774,15 @@ do_link:

> > if (error)

> > goto exit_dput;

```
> > error = __do_follow_link(&path, nd);
> > - if (error)
> > + if (error) {
> > + /* Does someone understand code flow here? Or it is only
> > +  * me so stupid? Anathema to whoever designed this non-sense
> > +  * with "intent.open".
> > +  */
> > + if (!IS_ERR(nd->intent.open.file))
> > +  release_open_intent(nd);
> >  return error;
> > + }
> > nd->flags &= ~LOOKUP_PARENT;
> > if (nd->last_type == LAST_BIND)
> >  goto ok;
> >
>
> It's good to have some more Alexeycomments in the tree.
>
> I wonder if we're also needing a path_release() here. And if not, whether
> it is still safe to run release_open_intent() against this nameidata?
>
> Hopefully Trond can recall what's going on in there...
```

The patch looks correct, except that I believe we can skip the IS_ERR() test there: if we're following links then we presumably have not tried to open any files yet, so the call to release_open_intent(nd) can be made unconditional.

Cheers,
Trond
