
Subject: Re: NFS causing oops when freeing namespace
Posted by [Cedric Le Goater](#) on Wed, 17 Jan 2007 19:20:37 GMT
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Oleg Nesterov wrote:

> On 01/17, Daniel Hokka Zakrisson wrote:

>>> Call Trace:

```
>>> [<c03be6f0>] _spin_lock_irqsave+0x20/0x90
>>> [<c01f6115>] lockd_down+0x125/0x190
>>> [<c01d26bd>] nfs_free_server+0x6d/0xd0
>>> [<c01d8e9c>] nfs_kill_super+0xc/0x20
>>> [<c0161c5d>] deactivate_super+0x7d/0xa0
>>> [<c0175e0e>] release_mounts+0x6e/0x80
>>> [<c0175e86>] __put_mnt_ns+0x66/0x80
>>> [<c0132b3e>] free_nsproxy+0x5e/0x60
>>> [<c011f021>] do_exit+0x791/0x810
>>> [<c011f0c6>] do_group_exit+0x26/0x70
>>> [<c0103142>] sysenter_past_esp+0x5f/0x85
>>> [<c03b0033>] rpc_wake_up+0x3/0x70
>> It was the only semi-plausible explanation I could come up with. I added a
>> printk in do_exit right before exit_task_namespaces, where sighand was
>> still set, and one right before the spin_lock_irq in lockd_down, where it
>> had suddenly been set to NULL.
```

>

> I can't reproduce the problem, but

I did on a 2.6.20-rc4-mm1.

```
> do_exit:
> exit_notify(tsk);
> exit_task_namespaces(tsk);
>
> the task could be reaped by its parent in between.
```

indeed. while it goes sleeping in lockd_down() just before it does

```
spin_lock_irq(&current->sighand->siglock);
```

current->sighand is valid before interruptible_sleep_on_timeout() and
not after.

> We should not use ->signal/->sighand after exit_notify().

>

> Can we move exit_task_namespaces() up?

yes but I moved it down because it invalidates ->nsproxy ...

C.

Subject: Re: NFS causing oops when freeing namespace
Posted by [Oleg Nesterov](#) on Wed, 17 Jan 2007 19:46:32 GMT
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On 01/17, Cedric Le Goater wrote:

```
>
> Oleg Nesterov wrote:
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>
> > We should not use ->signal/->sighand after exit_notify().
> >
> > Can we move exit_task_namespaces() up?
>
> yes but I moved it down because it invalidates ->nsproxy ...
```

Well, we can fix the symptom if we change lockd_down() to use lock_task_sighand(), or something like this,

```
--- NFS/fs/lockd/svc.c~lockd_down 2006-11-27 21:20:11.000000000 +0300
+++ NFS/fs/lockd/svc.c 2007-01-17 22:39:47.000000000 +0300
```

```

@@ -314,6 +314,7 @@ void
lockd_down(void)
{
static int warned;
+ int sigpending;

mutex_lock(&nlmsvc_mutex);
if (nlmsvc_users) {
@@ -334,16 +335,15 @@ lockd_down(void)
 * Wait for the lockd process to exit, but since we're holding
 * the lockd semaphore, we can't wait around forever ...
*/
- clear_thread_flag(TIF_SIGPENDING);
+ sigpending = test_and_clear_thread_flag(TIF_SIGPENDING);
interruptible_sleep_on_timeout(&lockd_exit, HZ);
if (nlmsvc_pid) {
printk(KERN_WARNING
"lockd_down: lockd failed to exit, clearing pid\n");
nlmsvc_pid = 0;
}
- spin_lock_irq(&current->sighand->siglock);
- recalc_sigpending();
- spin_unlock_irq(&current->sighand->siglock);
+ if (sigpending) /* can be wrong at this point, harmless */
+ set_thread_flag(TIF_SIGPENDING);
out:
mutex_unlock(&nlmsvc_mutex);
}

```

but this is not good anyway.

Oleg.

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