Subject: Re: Containers: css_put() dilemma
Posted by Paul Menage on Tue, 17 Jul 2007 07:18:33 GMT

On 7/17/07, Balbir Singh <balbir@linux.vnet.ibm.com> wrote:
> >
> > >   mutex_lock(&container_mutex);
> > >   set_bit(CONT_RELEASABLE, &cont->flags);
> > >-   if (atomic_dec_and_test(&css->refcnt)) {
> > >-   check_for_release(cont);
> > >-   }
> > >+   check_for_release(cont);
> > >   mutex_unlock(&container_mutex);
> > >

I think that this isn't safe as it stands, without a synchronize_rcu()
in container_diput() prior to the kfree(). Also, it will break if
anyone tries to use a release agent on a hierarchy that has your
memory controller bound to it.

Paul

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

Subject: Re: Containers: css_put() dilemma
Posted by Balbir Singh on Tue, 17 Jul 2007 10:28:33 GMT

Paul (??) Menage wrote:
> On 7/17/07, Balbir Singh <balbir@linux.vnet.ibm.com> wrote:
>> >
>> > >   mutex_lock(&container_mutex);
>> > >   set_bit(CONT_RELEASABLE, &cont->flags);
>> > >-   if (atomic_dec_and_test(&css->refcnt)) {
>> > >-   check_for_release(cont);
>> > >-   }
>> > >+   check_for_release(cont);
>> > >   mutex_unlock(&container_mutex);
>> > >
>
> I think that this isn't safe as it stands, without a synchronize_rcu()
> in container_diput() prior to the kfree(). Also, it will break if
> anyone tries to use a release agent on a hierarchy that has your
> memory controller bound to it.
>

Isn't the code functionally the same as before? We still do atomic_test_and_dec()
as before. We still set_bit() CONT_RELEASABLE, we take the container_mutex
and check_for_release(). I am not sure I understand what changed?

Could you please elaborate as to why using a release agent is broken
when the memory controller is attached to it? I am not quite sure why we
need the synchronize_rcu() either in container_diput().

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

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 Warm Regards,
 Balbir Singh
 Linux Technology Center
 IBM, ISTL

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