Subject: Re: [PATCH v5 2/2] decrement static keys on real destroy time Posted by Glauber Costa on Wed, 16 May 2012 06:03:08 GMT View Forum Message <> Reply to Message

On 05/14/2012 04:59 AM, KAMEZAWA Hiroyuki wrote: > (2012/05/12 5:11), Glauber Costa wrote: > >> We call the destroy function when a cgroup starts to be removed, >> such as by a rmdir event. >> >> However, because of our reference counters, some objects are still >> inflight. Right now, we are decrementing the static keys at destroy() >> time, meaning that if we get rid of the last static_key reference, >> some objects will still have charges, but the code to properly >> uncharge them won't be run. >> >> This becomes a problem specially if it is ever enabled again, because >> now new charges will be added to the staled charges making keeping >> it pretty much impossible. >> >> We just need to be careful with the static branch activation: >> since there is no particular preferred order of their activation, >> we need to make sure that we only start using it after all >> call sites are active. This is achieved by having a per-memcg >> flag that is only updated after static_key_slow_inc() returns. >> At this time, we are sure all sites are active. >> >> This is made per-memcg, not global, for a reason: >> it also has the effect of making socket accounting more >> consistent. The first memcg to be limited will trigger static_key() >> activation, therefore, accounting. But all the others will then be >> accounted no matter what. After this patch, only limited memcgs >> will have its sockets accounted. >> >> [v2: changed a tcp limited flag for a generic proto limited flag] >> [v3: update the current active flag only after the static key update] >> [v4: disarm_static_keys() inside free_work] >> [v5: got rid of tcp limit mutex, now in the static key interface] >> >> Signed-off-by: Glauber Costa<glommer@parallels.com> >> CC: Tejun Heo<tj@kernel.org> >> CC: Li Zefan<lizefan@huawei.com> >> CC: Kamezawa Hiroyuki<kamezawa.hiroyu@jp.fujitsu.com> >> CC: Johannes Weiner<hannes@cmpxchg.org> >> CC: Michal Hocko<mhocko@suse.cz> > >

> Thank you for your patient works.

>

- > Acked-by: KAMEZAWA Hiroyuki<kamezawa.hiroyu@jp.fujitsu.com>
- >
- > BTW, what is the relationship between 1/2 and 2/2 ?

Can't do jump label patching inside an interrupt handler. They need to happen when we free the structure, and I was about to add a worker myself when I found out we already have one: just we don't always use it.

Before we merge it, let me just make sure the issue with config Li pointed out don't exist. I did test it, but since I've reposted this many times with multiple tiny changes - the type that will usually get us killed, I'd be more comfortable with an extra round of testing if someone spotted a possibility.

Who is merging this fix, btw ? I find it to be entirely memcg related, even though it touches a file in net (but a file with only memcg code in it)

