Subject: Re: [PATCH 10/11] memcg: allow a memcg with kmem charges to be destructed.

Posted by Tejun Heo on Mon, 25 Jun 2012 18:34:42 GMT View Forum Message <> Reply to Message

On Mon, Jun 25, 2012 at 06:15:27PM +0400, Glauber Costa wrote: > Because the ultimate goal of the kmem tracking in memcg is to > track slab pages as well, we can't guarantee that we'll always > be able to point a page to a particular process, and migrate > the charges along with it - since in the common case, a page > will contain data belonging to multiple processes. > > Because of that, when we destroy a memcg, we only make sure > the destruction will succeed by discounting the kmem charges > from the user charges when we try to empty the cgroup. > > Signed-off-by: Glauber Costa <glommer@parallels.com> > CC: Christoph Lameter <cl@linux.com> > CC: Pekka Enberg <penberg@cs.helsinki.fi> > CC: Michal Hocko <mhocko@suse.cz> > CC: Kamezawa Hiroyuki <kamezawa.hiroyu@jp.fujitsu.com> > CC: Johannes Weiner <hannes@cmpxchg.org> > CC: Suleiman Souhlal <suleiman@google.com> > ----> mm/memcontrol.c | 10 ++++++++ 1 file changed, 9 insertions(+), 1 deletion(-) > > > diff --git a/mm/memcontrol.c b/mm/memcontrol.c > index a6a440b..bb9b6fe 100644 > --- a/mm/memcontrol.c > +++ b/mm/memcontrol.c > @ @ -598,6 +598,11 @ @ static void disarm_kmem_keys(struct mem_cgroup *memcg) > { if (test_bit(KMEM_ACCOUNTED_THIS, &memcg->kmem_accounted)) > static_key_slow_dec(&mem_cgroup_kmem_enabled_key); > > + /* > + * This check can't live in kmem destruction function, > + * since the charges will outlive the cgroup > + */ > + BUG ON(res counter read u64(&memcg->kmem, RES USAGE) != 0); WARN_ON() please. Misaccounted kernel usually is better than dead

Thanks.

kernel.

tejun