Subject: Re: [PATCH 02/10] memcg: Uncharge all kmem when deleting a cgroup.
Posted by Glauber Costa on Wed, 29 Feb 2012 16:51:25 GMT
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On 02/28/2012 09:24 PM, Suleiman Souhlal wrote:
> On Tue, Feb 28, 2012 at 11:00 AM, Glauber Costa<glommer@parallels.com> wrote:
>> On 02/27/2012 07:58 PM, Suleiman Souhlal wrote:
>>>
>>> A later patch will also use this to move the accounting to the root
>>> cgroup.
>>>
>>
>> Suleiman,
>>
>> Did you do any measurements to figure out how long does it take, average,
>> for dangling caches to go away ? Under memory pressure, let's say
>
> Unfortunately, I don't have any such measurements, other than a very artificial:
>
> # mkdir /dev/cgroup/memory/c
> # echo 1073741824> /dev/cgroup/memory/c/memory.limit_in_bytes
> # sync&& echo 3> /proc/sys/vm/drop_caches
> # echo $$> /dev/cgroup/memory/c/tasks
> # find /> /dev/null
> # grep '(c)' /proc/slabinfo | wc -l
> 42
> # echo $$> /dev/cgroup/memory/tasks
> # rmdir /dev/cgroup/memory/c
> # grep '(c)dead' /proc/slabinfo | wc -l
> 42
> # sleep 60&& sync&& for i in `seq 1 1000`; do echo 3>
> /proc/sys/vm/drop_caches ; done
> # grep '(c)dead' /proc/slabinfo | wc -l
> 6
> # sleep 60&& grep '(c)dead' /proc/slabinfo | wc -l
> 5
> # sleep 60&& grep '(c)dead' /proc/slabinfo | wc -l
> 5
>
> (Note that this is without any per-memcg shrinking patch applied. With
> shrinking, things will be a bit better, because deleting the cgroup
> will force the dentries to get shrunk.)
>
> Some of these dead caches may take a long time to go away, but we
> haven't found them to be a problem for us, so far.
>

Ok. When we start doing shrinking, however, I'd like to see a shrink

step being done before we destroy the memcg. This way we can at least reduce the number of pages lying around.