
Subject: [PATCH v5 7/8] Display current tcp memory allocation in kmem cgroup
Posted by [Glauber Costa](#) on Tue, 04 Oct 2011 12:17:59 GMT
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This patch introduces kmem.tcp_current_memory file, living in the kmem_cgroup filesystem. It is a simple read-only file that displays the amount of kernel memory currently consumed by the cgroup.

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Documentation/cgroups/memory.txt | 1 +
mm/memcontrol.c | 11 ++++++++
2 files changed, 12 insertions(+), 0 deletions(-)

diff --git a/Documentation/cgroups/memory.txt b/Documentation/cgroups/memory.txt
index c1db134..00f1a88 100644

--- a/Documentation/cgroups/memory.txt

+++ b/Documentation/cgroups/memory.txt

@@ -79,6 +79,7 @@ Brief summary of control files.

memory.independent_kmem_limit # select whether or not kernel memory limits are
independent of user limits

memory.kmem.tcp.limit_in_bytes # set/show hard limit for tcp buf memory

+ memory.kmem.tcp.usage_in_bytes # show current tcp buf memory allocation

1. History

diff --git a/mm/memcontrol.c b/mm/memcontrol.c

index 6fb14bb..f178a64 100644

--- a/mm/memcontrol.c

+++ b/mm/memcontrol.c

@@ -465,12 +465,23 @@ static u64 tcp_read_limit(struct cgroup *cgrp, struct cftype *cft)
return memcg->tcp.tcp_max_memory << PAGE_SHIFT;
}

+static u64 tcp_usage_in_bytes(struct cgroup *cgrp, struct cftype *cft)

+{

+ struct mem_cgroup *memcg = mem_cgroup_from_cont(cgrp);

+

+ return atomic_long_read(&memcg->tcp.tcp_memory_allocated) << PAGE_SHIFT;

+}

+

static struct cftype tcp_files[] = {

{

.name = "kmem.tcp.limit_in_bytes",

.write_u64 = tcp_write_limit,

```
.read_u64 = tcp_read_limit,
},
+ {
+ .name = "kmem.tcp.usage_in_bytes",
+ .read_u64 = tcp_usage_in_bytes,
+ },
};

static void tcp_create_cgroup(struct mem_cgroup *cg, struct cgroup_subsys *ss)
--
1.7.6
```
