Subject: [PATCH 1/2] Add the max_usage member on the res_counter
Posted by Pavel Emelianov on Fri, 07 Mar 2008 15:30:55 GMT
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This is a very usefull feature. E.g. one may set the
limit to "unlimited" value and check for the memory
requirements of a new container.

Signed-off-by: Pavel Emelyanov <xemul@openvz.org>

---
 include/linux/res_counter.h | 5 +++++
 kernel/res_counter.c | 4 ++++
 mm/memcontrol.c | 5 +++++
 3 files changed, 14 insertions(+), 0 deletions(-)

```
diff --git a/include/linux/res_counter.h b/include/linux/res_counter.h
index 8cb1ecd..2c4deb5 100644
--- a/include/linux/res_counter.h
+++ b/include/linux/res_counter.h
@@ -25,6 +25,10 @@ struct res_counter {
   */
  unsigned long long usage;
  /*
+  * the maximal value of the usage from the counter creation
+  */
+ unsigned long long max_usage;
+ /*
   * the limit that usage cannot exceed
   */
  unsigned long long limit;
@@ -67,6 +71,7 @@ ssize_t res_counter_write(struct res_counter *counter, int member,

 enum {
  RES_USAGE,
+ RES_MAX_USAGE,
  RES_LIMIT,
  RES_FAILCNT,
 };
diff --git a/kernel/res_counter.c b/kernel/res_counter.c
index 791ff2b..f1f20c2 100644
--- a/kernel/res_counter.c
+++ b/kernel/res_counter.c
@@ -27,6 +27,8 @@ int res_counter_charge_locked(struct res_counter *counter, unsigned long
val)
  }

  counter->usage += val;
```

```
+ if (counter->usage > counter->max_usage)
+  counter->max_usage = counter->usage;
  return 0;
 }

@@ -65,6 +67,8 @@ res_counter_member(struct res_counter *counter, int member)
  switch (member) {
  case RES_USAGE:
   return &counter->usage;
+ case RES_MAX_USAGE:
+  return &counter->max_usage;
  case RES_LIMIT:
   return &counter->limit;
  case RES_FAILCNT:
diff --git a/mm/memcontrol.c b/mm/memcontrol.c
index 2d59163..e5c741a 100644
--- a/mm/memcontrol.c
+++ b/mm/memcontrol.c
@@ -911,6 +911,11 @@ static struct cftype mem_cgroup_files[] = {
   .read_u64 = mem_cgroup_read,
  },
  {
+  .name = "max_usage_in_bytes",
+  .private = RES_MAX_USAGE,
+  .read_u64 = mem_cgroup_read,
+ },
+ {
   .name = "limit_in_bytes",
   .private = RES_LIMIT,
   .write = mem_cgroup_write,
--
1.5.3.4
```

Subject: Re: [PATCH 1/2] Add the max_usage member on the res_counter
Posted by KAMEZAWA Hiroyuki on Sat, 08 Mar 2008 04:33:07 GMT
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On Fri, 07 Mar 2008 18:30:55 +0300
Pavel Emelyanov <xemul@openvz.org> wrote:

> This is a very usefull feature. E.g. one may set the
> limit to "unlimited" value and check for the memory

> requirements of a new container.
>
Hm, I like this. Could you add a method to reset this counter ?

Thanks,
-Kame

> Signed-off-by: Pavel Emelyanov <xemul@openvz.org>
>
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> kernel/res_counter.c | 4 ++++
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> @@ -27,6 +27,8 @@ int res_counter_charge_locked(struct res_counter *counter, unsigned
long val)
>   }
>
>   counter->usage += val;

> + if (counter->usage > counter->max_usage)
> + counter->max_usage = counter->usage;
>   return 0;
> }
>
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> + .private = RES_MAX_USAGE,
> + .read_u64 = mem_cgroup_read,
> + },
> + {
>   .name = "limit_in_bytes",
>   .private = RES_LIMIT,
>   .write = mem_cgroup_write,
> --
> 1.5.3.4
>
> --
> To unsubscribe, send a message with 'unsubscribe linux-mm' in
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> see: http://www.linux-mm.org/ .
> Don't email: email@kvack.org

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Containers mailing list
Containers@lists.linux-foundation.org
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Subject: Re: [PATCH 1/2] Add the max_usage member on the res_counter
Posted by Balbir Singh on Sat, 08 Mar 2008 05:39:14 GMT

Pavel Emelyanov wrote:
> This is a very usefull feature. E.g. one may set the
> limit to "unlimited" value and check for the memory
> requirements of a new container.
>
> Signed-off-by: Pavel Emelyanov <xemul@openvz.org>
>
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> enum {
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> --- a/kernel/res_counter.c
> +++ b/kernel/res_counter.c
> @@ -27,6 +27,8 @@ int res_counter_charge_locked(struct res_counter *counter, unsigned
long val)
>   }
>
>   counter->usage += val;
> + if (counter->usage > counter->max_usage)
> + counter->max_usage = counter->usage;

How about

 counter->max_usage = max(counter->usage, counter->max_usage);

>   return 0;
> }
>
> @@ -65,6 +67,8 @@ res_counter_member(struct res_counter *counter, int member)
>   switch (member) {
>   case RES_USAGE:
>   return &counter->usage;
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> + .private = RES_MAX_USAGE,
> + .read_u64 = mem_cgroup_read,
> + },
> + {
>   .name = "limit_in_bytes",
>   .private = RES_LIMIT,
>   .write = mem_cgroup_write,

Looks very good,

Acked-by: Balbir Singh <balbir@linux.vnet.ibm.com>

--
 Warm Regards,
 Balbir Singh
 Linux Technology Center
 IBM, ISTL

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

Subject: Re: [PATCH 1/2] Add the max_usage member on the res_counter
Posted by Pavel Emelianov on Tue, 11 Mar 2008 08:41:45 GMT
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KAMEZAWA Hiroyuki wrote:
> On Fri, 07 Mar 2008 18:30:55 +0300
> Pavel Emelyanov <xemul@openvz.org> wrote:
>
>> This is a very usefull feature. E.g. one may set the
>> limit to "unlimited" value and check for the memory
>> requirements of a new container.
>>
> Hm, I like this. Could you add a method to reset this counter ?

OK. Sounds reasonable.

> How about
>
> counter->max_usage = max(counter->usage, counter->max_usage);

No, I prefer explicit checks :)

> Looks very good,
>
> Acked-by: Balbir Singh <balbir@linux.vnet.ibm.com>

OK. I'll push this change the the git at openvz.org then.

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