Subject: How to set resource quota of other process
Posted by Ian jonhson on Tue, 25 Dec 2007 04:52:48 GMT
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Hi,

We all know that we can set resource quota of process with pam_limits.so.
The module can enforce the resource usage (cpu, memory, maximal number of
open file, etc) by setrlimit.

It seems that the function, setrlimit(), can only set self resource
quota of process and inherit by its child processes, right?

Because I adopted the function in one process to set another process'
resource quota, and found nothing enforced happen. The other process can run as
before, not any limitation.

I don't know whether what I have designed is correct, using the setrlimit to
set other process resource usage. If it is wrong, are there other ways to
accomplish my target?

Also, in OpenVZ, are there any auxiliary tools (or libraries, functions) to
do enforcement?

Thank you in advance.

Regards,
Ian

Subject: Re: How to set resource quota of other process
Posted by vaverin on Tue, 25 Dec 2007 06:48:10 GMT
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man setrlimit
A privileged process (under Linux: one with the CAP_SYS_RESOURCE capability) may make
arbitrary changes to either limit value.

Subject: Re: Re: How to set resource quota of other process
Posted by Ian jonhson on Tue, 25 Dec 2007 16:50:50 GMT
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an setrlimit
> A privileged process (under Linux: one with the CAP_SYS_RESOURCE capability) may make
arbitrary changes to either limit value.

You mean that privileged process with the CAP_SYS_RESOURCE can enforce
the resource usage of other processes by setrlimit.

I am sorry, I googled the internet and man the setrlimit but I can not
find the relative information or example codes.

Could you give me some advices?

Thanks in advance.

Ian

Subject: Re: Re: How to set resource quota of other process
Posted by vaverin on Wed, 26 Dec 2007 06:49:20 GMT
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Ian,

sorry for previous message, it was incorrect because I didn't understand Your original question.

You are right, setrlimit() set the limits for current process only (and for its new childern) and I don't
know the ways to set these limits for some another processes.

OpenVZ uses own accounting/limiting subsytem that is not related to   setrlimit(). OpenVZ allows
to set some group identificator for current process only (like setrlimit), however then any privliged
process can set the limits for this process group.

thank you,
Vasily Averin