
Subject: Idle time statistics for a container

Posted by [Srivatsa Vaddagiri](#) on Wed, 10 Oct 2007 14:16:10 GMT

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Hi Kirill/Hertbert,

Does Openvz or Linux-VServer provide idle time statistics per container? i.e how much time a container has been idle?

Just exploring whether that be a usefull stats to provide on a per-control group basis.

--

Regards,
vatsa

Containers mailing list

Containers@lists.linux-foundation.org

<https://lists.linux-foundation.org/mailman/listinfo/containers>

Subject: Re: Idle time statistics for a container

Posted by [dev](#) on Wed, 10 Oct 2007 15:35:14 GMT

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yes, OpenVZ calculates idle statistics for VE.

it is calculated as follows:

cpu user/system time are incremented as usual on timer tick,
idle time is incremented on per-VE per-VCPU runqueue when there is no tasks
in VE runqueue.

i.e. VE idle time is the time when there were no VE tasks on the runqueue.

Srivatsa Vaddagiri wrote:

> Hi Kirill/Hertbert,
> Does Openvz or Linux-VServer provide idle time statistics per
> container? i.e how much time a container has been idle?
>
> Just exploring whether that be a usefull stats to provide on a
> per-control group basis.
>

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Subject: Re: Idle time statistics for a container
Posted by [Herbert Poetzl](#) on Wed, 10 Oct 2007 18:00:39 GMT
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On Wed, Oct 10, 2007 at 07:55:29PM +0530, Srivatsa Vaddagiri wrote:

> Hi Kirill/Hertbert,
> Does Openvz or Linux-VServer provide idle time
> statistics per container?

Linux-VServer accounts the time/ticks a contain was running and on hold for being over limits, the time running is broken down into sys/user/etc ...

> i.e how much time a container has been idle?

so, while it is not accounted per se, it can be easily calculated from the other vaules ...

> Just exploring whether that be a usefull stats to provide
> on a per-control group basis.

I think it makes perfectly sense to account that, and a smart version is required to get the statistics inside a container right :)

best,
Herbert

> --
> Regards,
> vatsa

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Subject: Re: Idle time statistics for a container
Posted by [Srivatsa Vaddagiri](#) on Wed, 10 Oct 2007 18:10:57 GMT
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On Wed, Oct 10, 2007 at 08:00:39PM +0200, Herbert Poetzl wrote:

> I think it makes perfectly sense to account that, and
> a smart version is required to get the statistics
> inside a container right :)

With the group cfs scheduler, it may be bit easy to provide this.
If I am not mistaken, se->sum_sleep_runtime would provide this idle

time, where 'se' is the group level schedulable entity representing a container/control-group on a cpu.

--

Regards,
vatsa

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