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Subject: Re: [PATCH] Allow signalling container-init  
Posted by [Sukadev Bhattiprolu](#) on Thu, 09 Aug 2007 07:29:33 GMT  
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Oleg Nesterov [oleg@tv-sign.ru] wrote:

| On 08/08, sukadev@us.ibm.com wrote:

| >  
| > From: Sukadev Bhattiprolu <sukadev@us.ibm.com>  
| > Subject: [PATCH] Allow signalling container-init  
| >  
| > Only the global-init process must be special - any other container-init  
| > process must be killable to prevent run-away processes in the system.

| I think you are right, but....

| > --- lx26-23-rc1-mm1.orig/kernel/signal.c 2007-08-07 13:52:12.000000000 -0700  
| > +++ lx26-23-rc1-mm1/kernel/signal.c 2007-08-08 15:09:27.000000000 -0700  
| > @@ -1861,11 +1861,9 @@ relock:  
| > continue;  
| >  
| > /\*  
| > \* Init of a pid space gets no signals it doesn't want from  
| > \* within that pid space. It can of course get signals from  
| > \* its parent pid space.  
| > + \* Global init gets no signals it doesn't want.  
| > \*/  
| > - if (current == task\_child\_reaper(current))  
| > + if (is\_global\_init(current->group\_leader))  
| > continue;

| ...this breaks exec() from /sbin/init. Note that de\_thread() kills other  
| sub-threads with SIGKILL. With this patch de\_thread() will hang waiting  
| for other threads to die.

Again for threaded-init I guess :-(

Well, we discussed last week about allowing non-root users to clone their  
pid namespace. The user can then create a container-init and this  
process would become immune to signal even by a root user ?

| I think it is better to not change the current behaviour which is not  
| perfect (buggy), until we actually protect /sbin/init from unwanted  
| signals.

Can we preserve the existing behavior by checking only the main thread  
of global init (i.e pass in 'current' rather than 'current->group\_leader'  
to is\_global\_init()) ?

|  
| (That said, I am not sure what behaviour is better (worse :), with or  
| without this patch)  
|  
| Oleg.

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

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