Subject: [PATCH] Allow signalling container-init Posted by Sukadev Bhattiprolu on Wed, 08 Aug 2007 23:47:37 GMT View Forum Message <> Reply to Message

Pavel,

Should we include this in the patchset ?

Sukadev

---

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.

TODO: Ideally we should allow killing the container-init only from ancestor containers and prevent it being killed from that or descendant containers. But that is a more complex change and will be addressed by a follow-on patch. For now allow the container-init to be terminated by any process with sufficient privileges.

Signed-off-by: Sukadev Bhattiprolu <sukadev@us.ibm.com>

kernel/signal.c | 6 ++----1 file changed, 2 insertions(+), 4 deletions(-)

## Index: lx26-23-rc1-mm1/kernel/signal.c

/\*

- \* 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;

if (sig\_kernel\_stop(signr)) {

### Subject: Re: [PATCH] Allow signalling container-init Posted by Oleg Nesterov on Thu, 09 Aug 2007 00:02:34 GMT View Forum Message <> Reply to Message

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.

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.

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

Oleg.

Subject: Re: [PATCH] Allow signalling container-init Posted by Daniel Pittman on Thu, 09 Aug 2007 00:46:33 GMT View Forum Message <> Reply to Message

sukadev@us.ibm.com writes:

> Should we include this in the patchset ?

[...]

> Only the global-init process must be special - any other

> container-init process must be killable to prevent run-away processes > in the system

> in the system.

One problem I hit while using OpenVZ is that some init processes -notable upstart used by Ubuntu -- depend on the special signal processing extended to init by the kernel.

The problem here was that a signal the kernel would otherwise have blocked was sent to upstart, the default handler was invoked and init was terminated.

- > TODO: Ideally we should allow killing the container-init only from
- > ancestor containers and prevent it being killed from that or
- > descendant containers. But that is a more complex change and
- > will be addressed by a follow-on patch. For now allow the
- > container-init to be terminated by any process with sufficient

> privileges.

This will break, as far as I can see, by allowing the container root to send signals to init that it doesn't expect.

Regards,

Daniel

-

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Containers mailing list Containers@lists.linux-foundation.org https://lists.linux-foundation.org/mailman/listinfo/containers Subject: Re: [PATCH] Allow signalling container-init Posted by serue on Thu, 09 Aug 2007 01:21:28 GMT View Forum Message <> Reply to Message

Quoting Daniel Pittman (daniel@rimspace.net):

> sukadev@us.ibm.com writes: > > > Should we include this in the patchset ? > > [...] > > > Only the global-init process must be special - any other > > container-init process must be killable to prevent run-away processes > > in the system. > > One problem I hit while using OpenVZ is that some init processes --> notable upstart used by Ubuntu -- depend on the special signal processing > extended to init by the kernel. > > The problem here was that a signal the kernel would otherwise have > blocked was sent to upstart, the default handler was invoked and init > was terminated. > > > TODO: Ideally we should allow killing the container-init only from >> ancestor containers and prevent it being killed from that or >> descendant containers. But that is a more complex change and >> will be addressed by a follow-on patch. For now allow the >> container-init to be terminated by any process with sufficient >> privileges. > > This will break, as far as I can see, by allowing the container root to > send signals to init that it doesn't expect.

Yes, in the end what we want is for a container init to receive

- 1. all signals from a (authorized) process in a parent pid namespace.
- 2. for signals sent from inside it's pid namespace, only exactly those signals for which it has installed a custom signal handler, no others.

In other words to a process in an ancestor pid namespace, the init of a container is like any other process. To a process inside the namespace for which it is init, it is as /sbin/init is to the system now.

Actually achieving that without affecting performance for all signalers is nontrivial. The current patchset is complex enough that I'd like to see us settle on non-optimal semantics for now, and once these patches have settled implement the ideal signaling. -serge

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

Subject: Re: [PATCH] Allow signalling container-init Posted by Daniel Pittman on Thu, 09 Aug 2007 01:29:06 GMT View Forum Message <> Reply to Message

"Serge E. Hallyn" <serue@us.ibm.com> writes: > Quoting Daniel Pittman (daniel@rimspace.net): >> sukadev@us.ibm.com writes:

[...]

>> > TODO: Ideally we should allow killing the container-init only from

>> > ancestor containers and prevent it being killed from that or

>> > descendant containers. But that is a more complex change and

>> > will be addressed by a follow-on patch. For now allow the

>> > container-init to be terminated by any process with sufficient

>> > privileges.

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>> This will break, as far as I can see, by allowing the container root to >> send signals to init that it doesn't expect.

>

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- > pid namespace.
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> container is like any other process. To a process inside the namespace

> for which it is init, it is as /sbin/init is to the system now.

That makes sense.

> Actually achieving that without affecting performance for all

> signalers is nontrivial. The current patchset is complex enough that

> I'd like to see us settle on non-optimal semantics for now, and once

> these patches have settled implement the ideal signaling.

I appreciate that. I figured to make you aware that this will make it

impossible to run upstart and, probably, other versions of init in your container as expected.

Since this was a somewhat subtle bug to track down it is, I think, work documenting so that people trying to use this code are aware of the limitation.

Regards,

Daniel

--

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

Subject: Re: [PATCH] Allow signalling container-init Posted by Sukadev Bhattiprolu on Thu, 09 Aug 2007 07:29:33 GMT View Forum Message <> Reply to Message

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.

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

Subject: Re: [PATCH] Allow signalling container-init Posted by Oleg Nesterov on Thu, 09 Aug 2007 07:55:35 GMT View Forum Message <> Reply to Message

On 08/09, sukadev@us.ibm.com wrote:

- >
- > 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....
- >|

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please see below,

> |

> | 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.

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> 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()) ?

Yes, this is what I meant, this is what we have in Linus's tree. This way a container-init could be killed. This all is not correct, but we shouldn't replace one bug with another.

Oleg.

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

#### Subject: Re: [PATCH] Allow signalling container-init Posted by dev on Thu, 09 Aug 2007 08:16:07 GMT View Forum Message <> Reply to Message

Daniel Pittman wrote: > sukadev@us.ibm.com writes: > > >>Should we include this in the patchset ? > > > [...] > > >>Only the global-init process must be special - any other >>container-init process must be killable to prevent run-away processes >>in the system. > > > One problem I hit while using OpenVZ is that some init processes --> notable upstart used by Ubuntu -- depend on the special signal processing > extended to init by the kernel. > > The problem here was that a signal the kernel would otherwise have > blocked was sent to upstart, the default handler was invoked and init > was terminated. > > >>TODO: Ideally we should allow killing the container-init only from >> ancestor containers and prevent it being killed from that or >> descendant containers. But that is a more complex change and >> will be addressed by a follow-on patch. For now allow the >> container-init to be terminated by any process with sufficient >> privileges. > > > This will break, as far as I can see, by allowing the container root to > send signals to init that it doesn't expect. This was fixed in OpenVZ in recent kernels and Pavel tried to address this in pid namespace patches as well, but since no beatiful solution was found it was decided to postpone this issue.

NOTE: parent can still send signals to child container' init. This is convinient since you can terminate the whole container quickly from the host node.

Thanks, Kirill

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

#### Subject: Re: [PATCH] Allow signalling container-init Posted by Pavel Emelianov on Thu, 09 Aug 2007 10:47:39 GMT View Forum Message <> Reply to Message

Oleg Nesterov wrote: > On 08/09, sukadev@us.ibm.com wrote: >> 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 ?

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Well, I agree with Oleg. I think that we should keep the patches without the signal handling until this set is in (at least) -mm. init pid namespace will work without it as used to do, and we'll develop a better signal handling and fix existing BUGs.

I know that this creates a hole for creating unkillable process, but since this is for root user only (CAP\_SYS\_ADMIN) this is OK.

> Oleg.

Thanks, Pavel

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

Subject: Re: [PATCH] Allow signalling container-init Posted by serue on Thu, 09 Aug 2007 14:42:14 GMT View Forum Message <> Reply to Message

Quoting Daniel Pittman (daniel@rimspace.net):

> "Serge E. Hallyn" <serue@us.ibm.com> writes:

> > Quoting Daniel Pittman (daniel@rimspace.net):

> >> sukadev@us.ibm.com writes:

>

> [...]

>

> >> > TODO: Ideally we should allow killing the container-init only from

>>>> ancestor containers and prevent it being killed from that or

>>>> descendant containers. But that is a more complex change and

- >>>> will be addressed by a follow-on patch. For now allow the
- >>>> container-init to be terminated by any process with sufficient
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> That makes sense.

>

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- > > signalers is nontrivial. The current patchset is complex enough that
- > > I'd like to see us settle on non-optimal semantics for now, and once
- > > these patches have settled implement the ideal signaling.

>

- > I appreciate that. I figured to make you aware that this will make it
- > impossible to run upstart and, probably, other versions of init in your
- > container as expected.

>

Since this was a somewhat subtle bug to track down it is, I think, work
 documenting so that people trying to use this code are aware of the
 limitation.

Agreed. I do think it is documented in the code and in changelogs. Maybe it's worth adding a Documentation/ file describing how to use the pid namespaces, ideal semantics, and current shortcomings, for people who want to use+test the feature rather than work with the kernel code.

-serge

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

Subject: Re: [PATCH] Allow signalling container-init

## Posted by Sukadev Bhattiprolu on Fri, 10 Aug 2007 00:48:12 GMT View Forum Message <> Reply to Message

Pavel Emelianov [xemul@openvz.org] wrote: Olea Nesterov wrote: >On 08/09, sukadev@us.ibm.com wrote: >>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 >>13:52:12.00000000 -0700 >>| > +++ lx26-23-rc1-mm1/kernel/signal.c 2007-08-08 >>15:09:27.00000000 -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 ? > >please see below, >

>>| >>| 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()) ? > >Yes, this is what I meant, this is what we have in Linus's tree. >This way a container-init could be killed. This all is not correct, >but we shouldn't replace one bug with another. Well, I agree with Oleg. I think that we should keep the patches without the signal handling until this set is in (at least) -mm. init pid namespace will work without it as used to do, and we'll develop a better signal handling and fix existing BUGs. I know that this creates a hole for creating unkillable process, but since this is for root user only (CAP\_SYS\_ADMIN) this is OK. But I think there is a difference by what you are saying and what Oleg is saying. Oleg pls correct me if I am wrong, but from what I understand, we just need modify my earlier fix so we can still terminate the container from a parent namespace but preserve the existing behavior w.r.t threaded-inits. Here is the modified patch for this. Suka \_\_\_ 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. TODO: Ideally we should allow killing the container-init only from parent container and prevent it being killed from within the container. But that is a more complex change and will be addressed by a follow-on patch. For now allow the container-init to be terminated by any process with sufficient privileges. Signed-off-by: Sukadev Bhattiprolu <sukadev@us.ibm.com> ---

kernel/signal.c | 6 ++----

```
1 file changed, 2 insertions(+), 4 deletions(-)
```

Index: lx26-23-rc1-mm1/kernel/signal.c

\_\_\_\_\_

```
--- lx26-23-rc1-mm1.orig/kernel/signal.c 2007-08-07 13:52:12.000000000 -0700
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@ @ -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)) continue;

```
if (sig_kernel_stop(signr)) {
```

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

Subject: Re: [PATCH] Allow signalling container-init Posted by Oleg Nesterov on Fri, 10 Aug 2007 10:53:59 GMT View Forum Message <> Reply to Message

On 08/09, sukadev@us.ibm.com wrote:

>

- > Pavel Emelianov [xemul@openvz.org] wrote:
- > | Oleg Nesterov wrote:
- > | >>|
- > | >>| 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
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- > | >>to is\_global\_init()) ?

> | >

- > | >Yes, this is what I meant, this is what we have in Linus's tree.
- > | >This way a container-init could be killed. This all is not correct,
- > | >but we shouldn't replace one bug with another.
- > |
- > | Well, I agree with Oleg. I think that we should keep the patches

- > | without the signal handling until this set is in (at least) -mm.
- > | init pid namespace will work without it as used to do, and we'll
- > | develop a better signal handling and fix existing BUGs.
- > |
- > I know that this creates a hole for creating unkillable process,
- > | but since this is for root user only (CAP\_SYS\_ADMIN) this is OK.
- >
- > But I think there is a difference bw what you are saying and what
- > Oleg is saying.

Hm. It seems to me there is no difference, but perhaps I misunderstood Pavel?

> Only the global-init process must be special - any other container-init

- > process must be killable to prevent run-away processes in the system.
- >
- > TODO: Ideally we should allow killing the container-init only from parent
- > container and prevent it being killed from within the container.
- > But that is a more complex change and will be addressed by a follow-on
- > patch. For now allow the container-init to be terminated by any process
- > with sufficient privileges.
- >

```
> Signed-off-by: Sukadev Bhattiprolu <sukadev@us.ibm.com>
> ----
> kernel/signal.c | 6 ++----
 1 file changed, 2 insertions(+), 4 deletions(-)
>
>
> Index: lx26-23-rc1-mm1/kernel/signal.c
> --- lx26-23-rc1-mm1.orig/kernel/signal.c 2007-08-07 13:52:12.000000000 -0700
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> @ @ -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))
    continue:
>
Imho, this is a right change for now. The Linus's tree does the same:
```

```
if (current == child_reaper(current))
  continue;
```

```
Because child_reaper() === init_pid_ns.child_reaper.
```

Oleg.

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

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