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Subject: [RFC][PATCH 0/5] Remove nsproxy->pid\_ns  
Posted by [Sukadev Bhattiprolu](#) on Sat, 10 Mar 2007 04:00:53 GMT  
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From: Sukadev Bhattiprolu <sukadev@us.ibm.com>  
Subject [RFC][PATCH 0/5] Remove nsproxy->pid\_ns

We need to decouple pid namespace from nsproxy to allow getting and releasing pid namespace independently from other namespaces. This is required since a process's reference to its pid namespace must exist even after its references to other namespaces are dropped during process exit.

This patchset accomplishes this by using the pid->pid\_nrs list defined in earlier patches. As noted from that patchset, pid->pid\_nrs list allows each process to have multiple pid\_t values, one per each namespace.

We define a task's clone-pid-namespace as the pid namespace that the process last unshared into. If the process never unshared its pid namespace, then its clone-pid-namespace is same as its parent clone-pid-namespace (possibly init-pid-ns), when the process was created.

When a process unshares its pid namespace, we allocate a new struct pid\_nr and attach this pid\_nr at the head of the pid->pid\_nrs list.

The task\_pid\_ns() wrapper always returns this clone-pid-ns of the task and returns the pid namespace from the head of the pid->pid\_nrs list.

This patch set includes following 5 patches:

[PATCH 1/5]

Rename \*namespaces() functions to \*nsproxy() to reflect that these functions only operate on an nsproxy and not on all namespaces.

[PATCH 2/5]

Define helper functions to use as we move pid namespace out of nsproxy

[PATCH 3/5]

Use pid\_namespace in struct pid\_nr rather than nsproxy->pid\_ns.

[PATCH 4/5]

Remove the struct pid\_namespace \* from struct nsproxy

[PATCH 5/5]

Remove the now-unused function, copy\_pid\_ns().

Signed-off-by: Sukadev Bhattiprolu <sukadev@us.ibm.com>  
Cc: Cedric Le Goater <clg@fr.ibm.com>  
Cc: Dave Hansen <haveblue@us.ibm.com>  
Cc: Serge Hallyn <serue@us.ibm.com>  
Cc: containers@lists.osdl.org

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Containers mailing list  
Containers@lists.osdl.org  
<https://lists.osdl.org/mailman/listinfo/containers>

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